

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz

Lamp Flux:663.82x1 lm

NAME: S010064BC1LZ 3045±75K

TYPE: LED

WEIGHT:

SPEC.: 1000×10MM

DIM.: 1000×10MM

SERIAL No.: 10101-0737-00

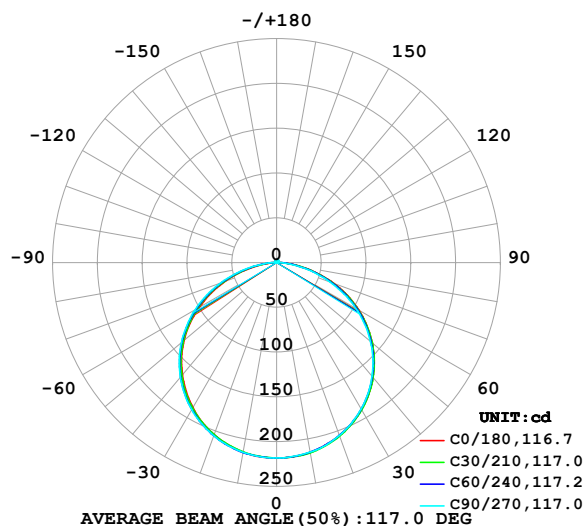
MFR.: iPixel LED

SUR.: 1000×10MM

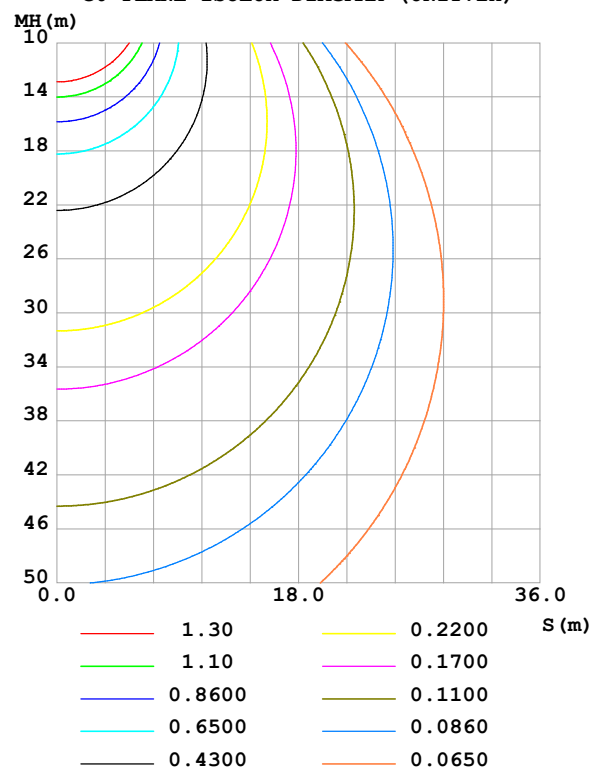
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 163.88 lm/W
MODEL	S010064BC1LZ 3045±75K	I _{max} (cd)	218.2	S/MH(C0/180)	1.27	
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	663.82	η UP,DN(C0-180)	0.8,49.1	
NOMINAL FLUX(lm)	663.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.8,49.3	
LAMPS INSIDE	1	η up (%)	1.6	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	η down (%)	98.4	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: WHL
Test Date: 2025-06-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 6.820m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	215.1	215.4	215.0	214.5	214.9	215.0	215.1	215.3	0- 10	20.68	20.68	3.11,3.11
20	205.5	205.7	205.3	204.5	204.4	205.0	205.6	206.1	10- 20	59.59	80.27	12.1,12.1
30	189.6	189.5	188.8	187.6	187.0	188.6	189.7	190.2	20- 30	91.24	171.5	25.8,25.8
40	167.4	167.1	165.9	164.4	163.8	165.8	167.3	168.0	30- 40	111.6	283.1	42.6,42.6
50	139.4	138.6	136.9	135.1	135.1	136.9	138.9	139.7	40- 50	117.7	400.8	60.4,60.4
60	106.4	104.8	102.2	100.5	99.66	102.6	105.1	106.1	50- 60	108.2	509.0	76.7,76.7
70	68.17	66.24	63.28	61.35	60.91	63.71	66.27	67.57	60- 70	83.46	592.4	89.2,89.2
80	29.24	27.78	25.33	23.38	22.89	25.63	27.93	28.81	70- 80	47.55	640.0	96.4,96.4
90	2.523	2.339	0.9556	1.192	1.205	1.855	1.060	2.368	80- 90	12.92	652.9	98.4,98.4
100	0.8438	0.8939	0.9832	0.9393	0.9423	0.9537	0.9395	0.8895	90-100	1.080	654.0	98.5,98.5
110	1.167	1.239	1.338	1.293	1.277	1.301	1.291	1.236	100-110	1.154	655.1	98.7,98.7
120	1.509	1.572	1.672	1.639	1.626	1.647	1.639	1.580	110-120	1.427	656.6	98.9,98.9
130	1.862	1.920	2.013	1.993	1.979	1.996	1.973	1.923	120-130	1.597	658.2	99.1,99.1
140	2.222	2.273	2.361	2.338	2.335	2.349	2.324	2.275	130-140	1.649	659.8	99.4,99.4
150	2.560	2.611	2.684	2.657	2.645	2.665	2.651	2.616	140-150	1.551	661.4	99.6,99.6
160	2.869	2.902	2.956	2.943	2.936	2.946	2.938	2.913	150-160	1.284	662.6	99.8,99.8
170	3.124	3.132	3.168	3.159	3.179	3.167	3.157	3.145	160-170	0.8600	663.5	100,100
180	3.288	3.270	3.272	3.281	3.266	3.262	3.282	3.270	170-180	0.3063	663.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 342.15 lm

%lum = 51.5%

%lamp = 51.5%

Conical surface Flux(130deg): 554.67 lm

%lum = 83.6%

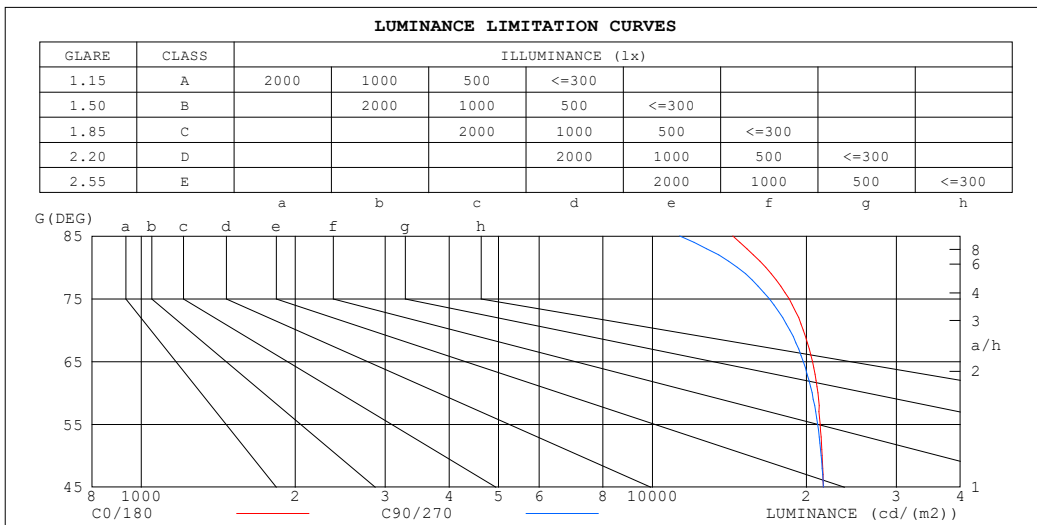
%lamp = 83.6%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-06-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
NAME: S010064BC1LZ 3045±75K	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-0737-00
MFR.: iPixel LED	SUR.: 1000×10MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14361	11296
80	16669	14644
75	18498	16922
70	19732	18572
65	20551	19733
60	21060	20519
55	21274	21040
50	21471	21377
45	21591	21595

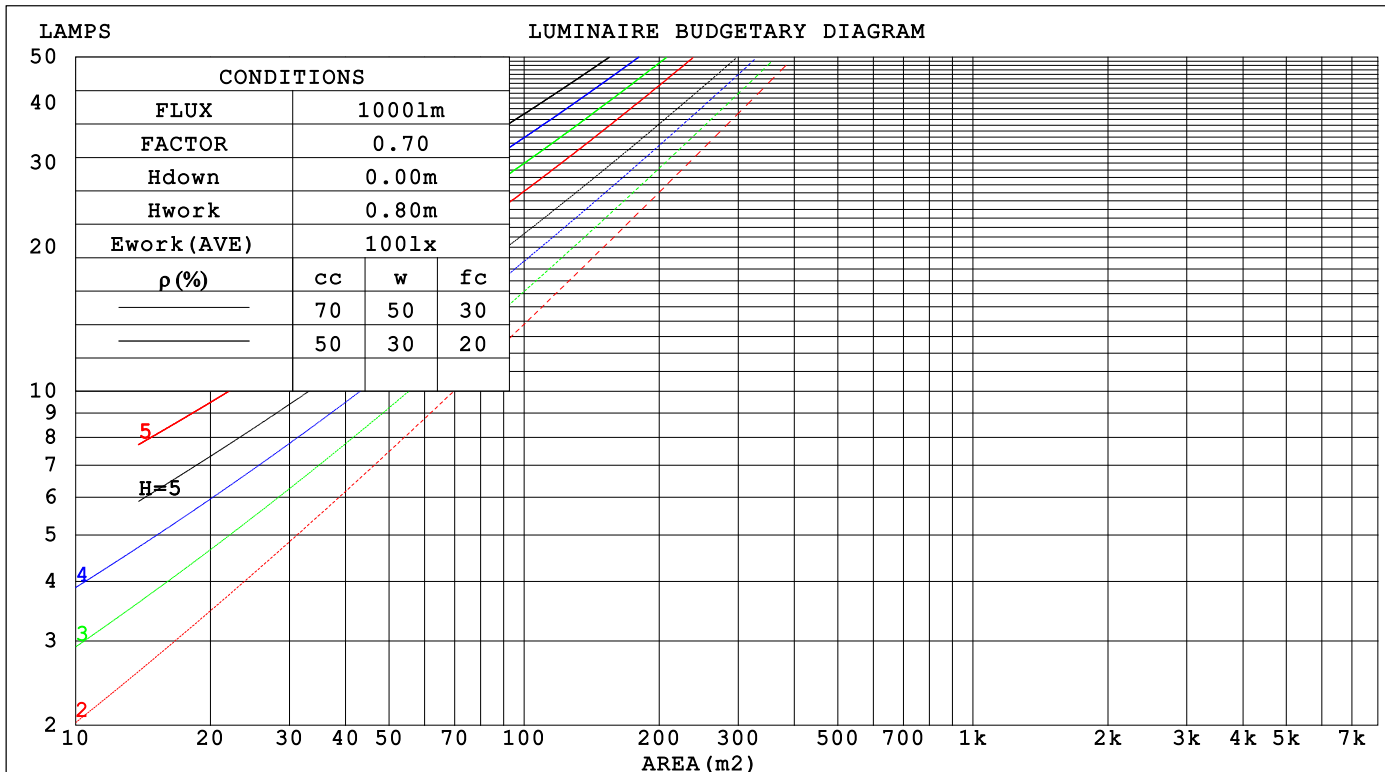
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
NAME: S010064BC1LZ 3045±75K	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-0737-00
MFR.: iPixel LED	SUR.: 1000×10MM	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.63	.56	.51	.60	.55	.51	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.44	.54	.48	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.42	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-06-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
NAME: S010064BC1LZ 3045±75K	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-0737-00
MFR.: iPixel LED	SUR.: 1000×10MM	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.313	.178	.056	.306	.174	.055	.292	.167	.053	.278	.161	.052	.266	.154	.050		
2.0	.295	.161	.050	.288	.159	.049	.275	.153	.048	.264	.148	.046	.253	.143	.045		
3.0	.272	.145	.043	.266	.143	.043	.255	.138	.042	.245	.134	.041	.235	.130	.040		
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.118	.036		
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.202	.108	.033		
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.195	.102	.030	.189	.099	.029		
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.182	.094	.027	.176	.092	.027		
8.0	.187	.091	.026	.183	.090	.026	.177	.088	.025	.171	.087	.025	.165	.085	.025		
9.0	.175	.085	.024	.172	.084	.023	.166	.082	.023	.161	.080	.023	.155	.079	.023		
10.0	.164	.079	.022	.162	.078	.022	.156	.077	.022	.151	.075	.021	.147	.074	.021		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022		
1.0	.193	.169	.147	.165	.145	.126	.113	.100	.087	.065	.058	.051	.021	.019	.016		
2.0	.185	.145	.110	.159	.124	.095	.109	.086	.067	.063	.050	.039	.020	.016	.013		
3.0	.178	.127	.087	.152	.110	.075	.105	.076	.053	.060	.044	.031	.019	.014	.010		
4.0	.170	.114	.071	.146	.098	.062	.100	.069	.043	.058	.040	.026	.019	.013	.008		
5.0	.163	.104	.060	.140	.090	.052	.096	.063	.037	.056	.037	.022	.018	.012	.007		
6.0	.156	.095	.052	.134	.082	.045	.092	.058	.032	.054	.034	.019	.017	.011	.006		
7.0	.149	.088	.046	.128	.077	.040	.088	.054	.028	.051	.032	.017	.017	.010	.006		
8.0	.142	.083	.042	.123	.072	.036	.085	.050	.026	.049	.030	.015	.016	.010	.005		
9.0	.136	.078	.038	.117	.067	.033	.081	.047	.024	.047	.028	.014	.015	.009	.005		
10.0	.131	.073	.035	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-06-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm										
NAME: S010064BC1LZ 3045±75K					TYPE: LED			WEIGHT:		
SPEC.: 1000×10MM					DIM.: 1000×10MM			SERIAL No.: 10101-0737-00		
MFR.: iPixel LED					SUR.: 1000×10MM			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.0	26.5	25.2	26.7	26.9	24.9	26.4	25.2	26.6	26.9
3H	26.6	28.0	26.9	28.2	28.5	26.4	27.8	26.7	28.1	28.3
4H	27.2	28.5	27.6	28.8	29.1	27.0	28.3	27.3	28.6	28.9
6H	27.7	28.9	28.0	29.2	29.5	27.4	28.6	27.7	28.9	29.2
8H	27.8	29.0	28.2	29.3	29.7	27.5	28.7	27.9	29.0	29.3
12H	27.9	29.1	28.3	29.4	29.7	27.5	28.7	27.9	29.0	29.4
4H 2H	25.6	26.9	25.9	27.2	27.5	25.5	26.8	25.8	27.1	27.4
3H	27.4	28.5	27.7	28.9	29.2	27.2	28.4	27.6	28.7	29.0
4H	28.1	29.2	28.5	29.5	29.9	27.9	29.0	28.3	29.3	29.7
6H	28.7	29.7	29.1	30.0	30.4	28.4	29.4	28.9	29.8	30.2
8H	28.9	29.8	29.4	30.2	30.6	28.6	29.5	29.0	29.9	30.3
12H	29.1	29.9	29.5	30.3	30.7	28.7	29.5	29.1	29.9	30.4
8H 4H	28.4	29.3	28.8	29.7	30.1	28.2	29.1	28.6	29.5	29.9
6H	29.1	29.9	29.6	30.3	30.8	28.9	29.6	29.3	30.0	30.5
8H	29.4	30.1	29.9	30.5	31.0	29.1	29.8	29.6	30.2	30.7
12H	29.6	30.2	30.1	30.7	31.2	29.3	29.8	29.8	30.3	30.8
12H 4H	28.4	29.2	28.9	29.6	30.1	28.2	29.0	28.7	29.4	29.9
6H	29.2	29.8	29.7	30.3	30.8	28.9	29.6	29.4	30.0	30.5
8H	29.5	30.1	30.0	30.5	31.1	29.2	29.8	29.7	30.3	30.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 663.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)
Area: 0.01 m2

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C Interval: 30.0DEG
Test Speed: HIGH
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Operators:WHL
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
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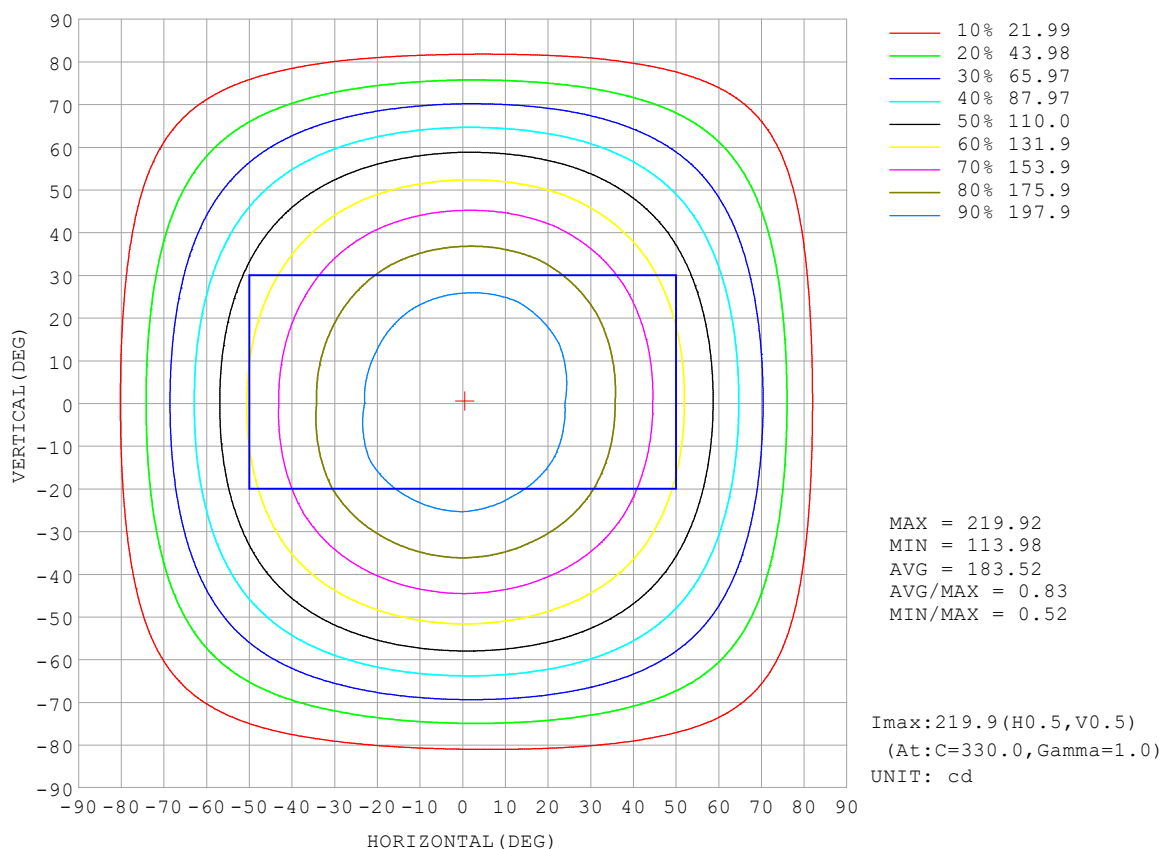
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	37	54	44	37	31
0.80	66	55	47	65	54	47	63	53	46	39
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	70	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	76
4.00	106	100	95	103	98	93	98	94	91	81
5.00	108	103	99	105	101	97	101	97	94	84
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
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Remarks:

ISOCANDELA DIAGRAM

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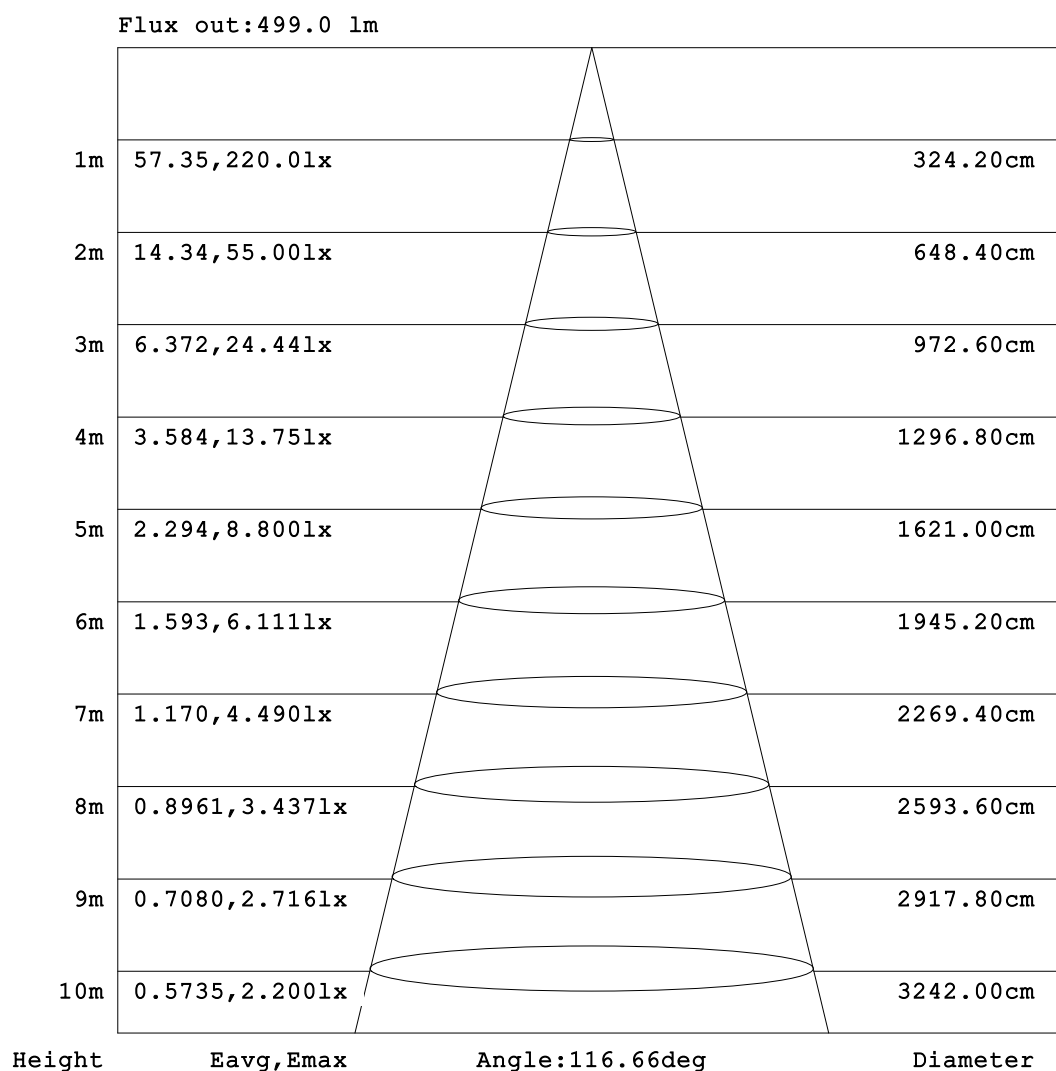


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Remarks:

AAI Figure

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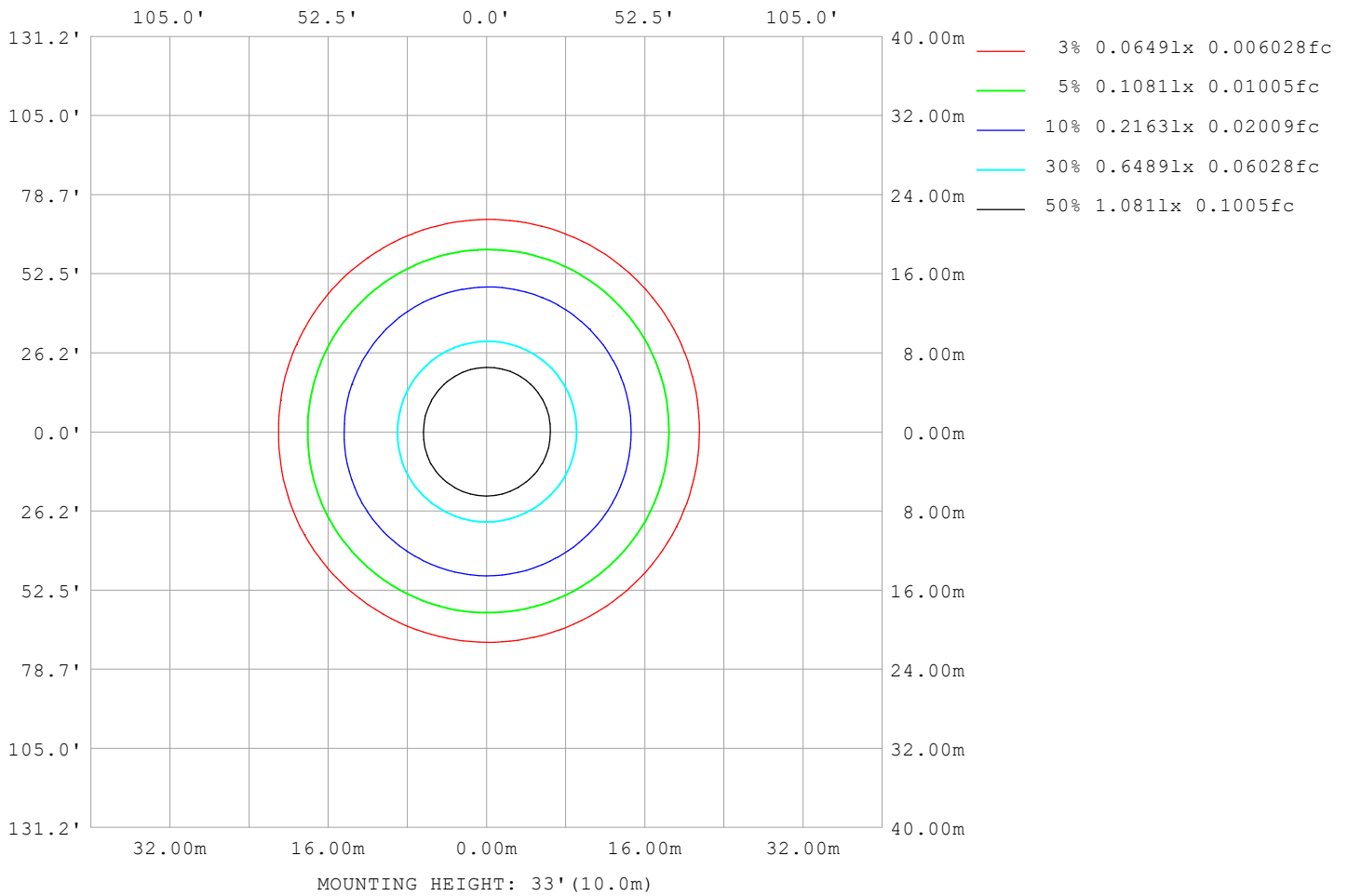
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:WHL
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ISOLUX DIAGRAM

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
NAME: S010064BC1LZ 3045±75K	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-0737-00
MFR.: iPixel LED	SUR.: 1000×10MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-06-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
NAME: S010064BC1LZ 3045±75K	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-0737-00
MFR.: iPixel LED	SUR.: 1000×10MM	Shielding Angle:

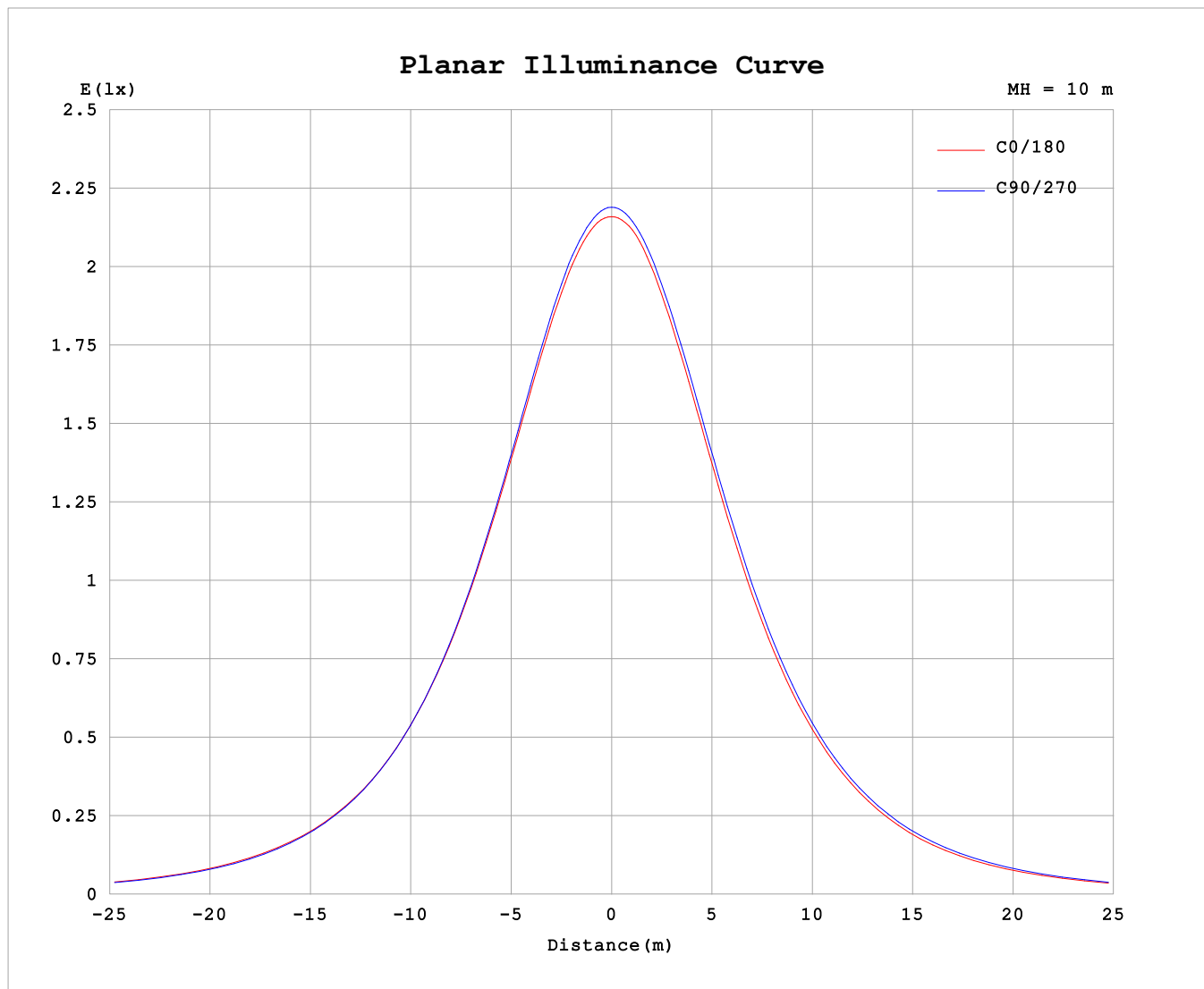
AvgL	cd/m2
L_0~180 (65) av	19922
L_0~180 (75) av	17294
L_0~180 (85) av	11718
L_90~270 (65) av	20014
L_90~270 (75) av	17407
L_90~270 (85) av	12242
L_45 (65) av	20004
L_45 (75) av	17328
L_45 (85) av	12572

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-06-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: WHL
Test Date: 2025-06-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 6.820m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1688A P:4.0507W PF:1.0000 Freq:0Hz Lamp Flux:663.82x1 lm		
NAME: S010064BC1LZ 3045±75K	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-0737-00
MFR.: iPixel LED	SUR.: 1000×10MM	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	218	218	218	218	218	218	218	218	218	218	218	218						
5	217	218	217	217	217	217	218	217	217	217	217	218						
10	215	216	215	215	214	215	215	215	216	215	215	215						
15	211	212	211	211	210	211	210	210	211	211	212	211						
20	205	206	205	205	204	205	204	204	206	206	207	206						
25	198	199	198	198	197	197	197	197	198	198	199	199						
30	190	190	189	189	188	188	187	188	189	190	191	190						
35	179	180	178	178	177	177	176	177	179	179	180	179						
40	167	168	166	166	164	164	164	165	167	167	168	168						
45	154	154	153	152	151	151	150	151	153	154	155	154						
50	139	139	138	137	135	135	135	136	138	139	140	139						
55	123	123	121	120	118	118	118	119	121	122	124	123						
60	106	106	104	102	101	100	99.7	102	104	105	106	106						
65	87.7	86.8	85.1	83.1	81.6	81.0	80.7	82.5	84.6	86.1	87.2	87.4						
70	68.2	67.2	65.3	63.3	61.5	61.1	60.9	62.7	64.7	66.3	67.4	67.7						
75	48.4	47.3	45.5	43.6	41.7	41.3	41.2	42.9	44.9	46.5	47.4	47.8						
80	29.2	28.4	27.1	25.3	23.8	23.0	22.9	24.6	26.7	27.9	28.8	28.8						
85	12.6	12.6	11.5	9.81	8.72	8.18	7.78	9.44	11.0	11.5	12.8	12.8						
90	2.52	2.58	2.10	0.96	1.21	1.18	1.21	1.66	2.05	1.06	2.32	2.42						
95	0.93	0.92	0.78	0.81	0.82	0.97	0.98	1.03	0.82	0.77	0.79	0.96						
100	0.84	0.88	0.91	0.98	0.94	0.94	0.94	0.93	0.98	0.94	0.93	0.85						
105	0.99	1.06	1.09	1.16	1.12	1.11	1.11	1.09	1.15	1.12	1.10	1.03						
110	1.17	1.22	1.26	1.34	1.30	1.29	1.28	1.27	1.33	1.29	1.28	1.20						
115	1.34	1.39	1.42	1.51	1.47	1.46	1.46	1.45	1.50	1.47	1.44	1.38						
120	1.51	1.56	1.59	1.67	1.64	1.64	1.63	1.63	1.67	1.64	1.61	1.55						
125	1.69	1.73	1.76	1.84	1.82	1.81	1.80	1.80	1.85	1.80	1.78	1.71						
130	1.86	1.91	1.93	2.01	1.99	1.99	1.98	1.98	2.02	1.97	1.96	1.89						
135	2.04	2.09	2.11	2.19	2.17	2.17	2.16	2.15	2.19	2.16	2.13	2.08						
140	2.22	2.26	2.28	2.36	2.34	2.34	2.34	2.33	2.37	2.32	2.30	2.25						
145	2.40	2.44	2.46	2.53	2.50	2.50	2.49	2.49	2.53	2.50	2.48	2.42						
150	2.56	2.60	2.62	2.68	2.66	2.66	2.64	2.64	2.69	2.65	2.64	2.59						
155	2.72	2.75	2.77	2.83	2.80	2.81	2.79	2.79	2.83	2.81	2.80	2.74						
160	2.87	2.89	2.91	2.96	2.94	2.95	2.94	2.92	2.97	2.94	2.94	2.89						
165	3.00	3.03	3.03	3.08	3.05	3.07	3.07	3.04	3.08	3.06	3.06	3.02						
170	3.12	3.13	3.13	3.17	3.15	3.17	3.18	3.15	3.18	3.16	3.17	3.12						
175	3.22	3.22	3.23	3.25	3.22	3.25	3.26	3.23	3.25	3.24	3.25	3.22						
180	3.29	3.26	3.28	3.27	3.28	3.28	3.27	3.27	3.26	3.28	3.27	3.27						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WHL
Test Date:2025-06-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz

Lamp Flux:1495.6x1 lm

NAME: S010128BC1LZ W

TYPE: LED

WEIGHT:

SPEC.: 1000x10MM

DIM.: 1000x10MM

SERIAL No.: 10101-1177-00

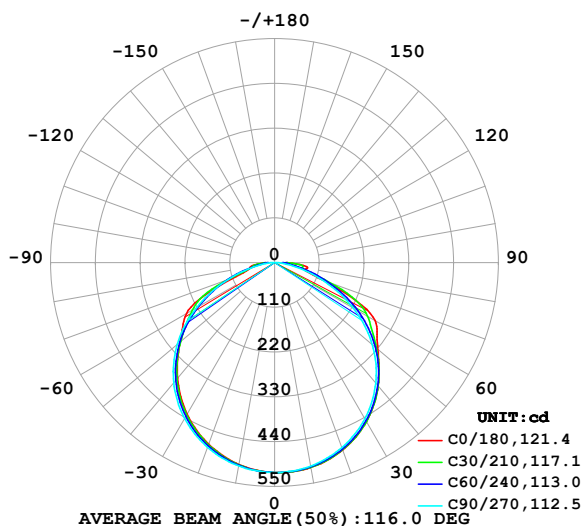
MFR.: iPixel LED

SUR.: 0.01

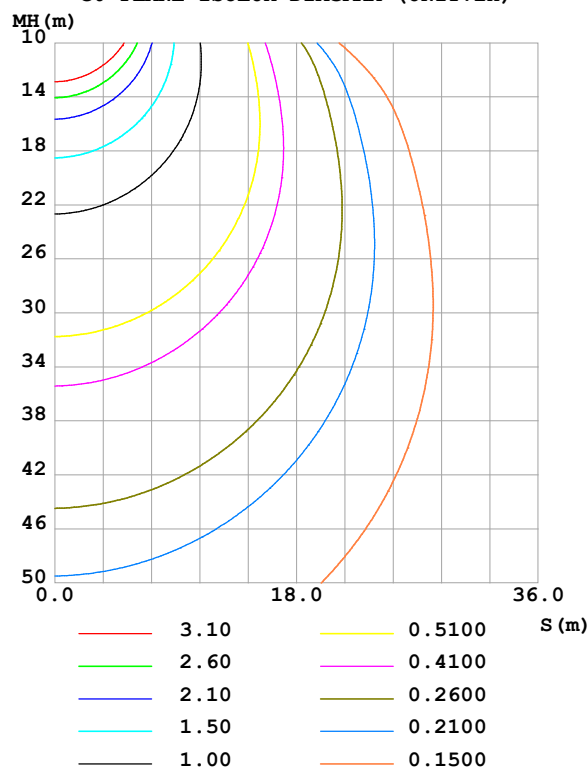
Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 142.84 lm/W
MODEL	S010128BC1LZ W	Imax (cd)	515.9	S/MH(C0/180)	1.30	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.28	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1495.6	η UP,DN(C0-180)	0.0,49.5	
NOMINAL FLUX(lm)	1495.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	η down (%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	503.5	505.1	507.3	510.0	511.2	510.2	507.7	505.0	0- 10	48.84	48.84	3.27,3.27
20	474.4	477.5	482.8	488.1	489.6	488.3	483.5	477.3	10- 20	140.4	189.2	12.7,12.7
30	430.1	434.3	442.3	449.9	451.2	450.1	443.3	434.3	20- 30	214.1	403.2	27,27
40	371.0	375.4	385.5	394.6	395.9	395.2	386.8	375.6	30- 40	259.9	663.1	44.3,44.3
50	303.9	302.6	312.1	323.8	331.3	325.0	313.7	303.2	40- 50	270.6	933.7	62.4,62.4
60	250.4	224.3	221.3	248.1	285.3	250.1	222.9	225.3	50- 60	247.9	1182	79,79
70	101.3	122.2	122.0	140.3	125.9	141.9	123.6	122.2	60- 70	185.7	1367	91.4,91.4
80	60.16	49.74	38.75	60.63	81.77	61.64	40.35	50.60	70- 80	88.23	1456	97.3,97.3
90	23.22	18.20	1.861	22.45	28.32	23.11	2.053	17.26	80- 90	40.01	1496	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 799.4 lm

%lum = 53.5%

%lamp = 53.5%

Conical surface Flux(130deg): 1286.9 lm

%lum = 86.0%

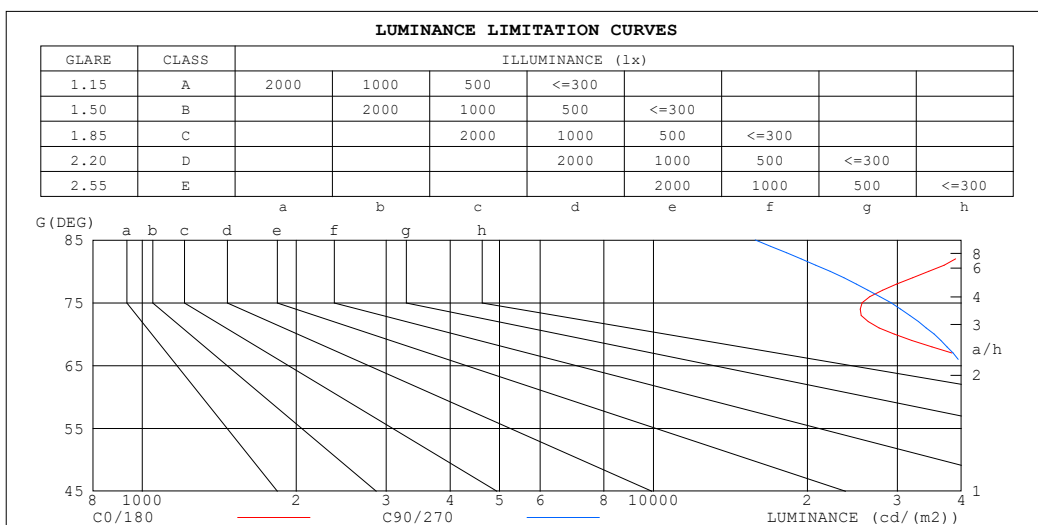
%lamp = 86.0%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	45933	15821
80	34559	22154
75	25602	29137
70	29553	35410
65	44450	40364
60	49961	43941
55	47957	46541
50	47159	48203
45	47568	49269

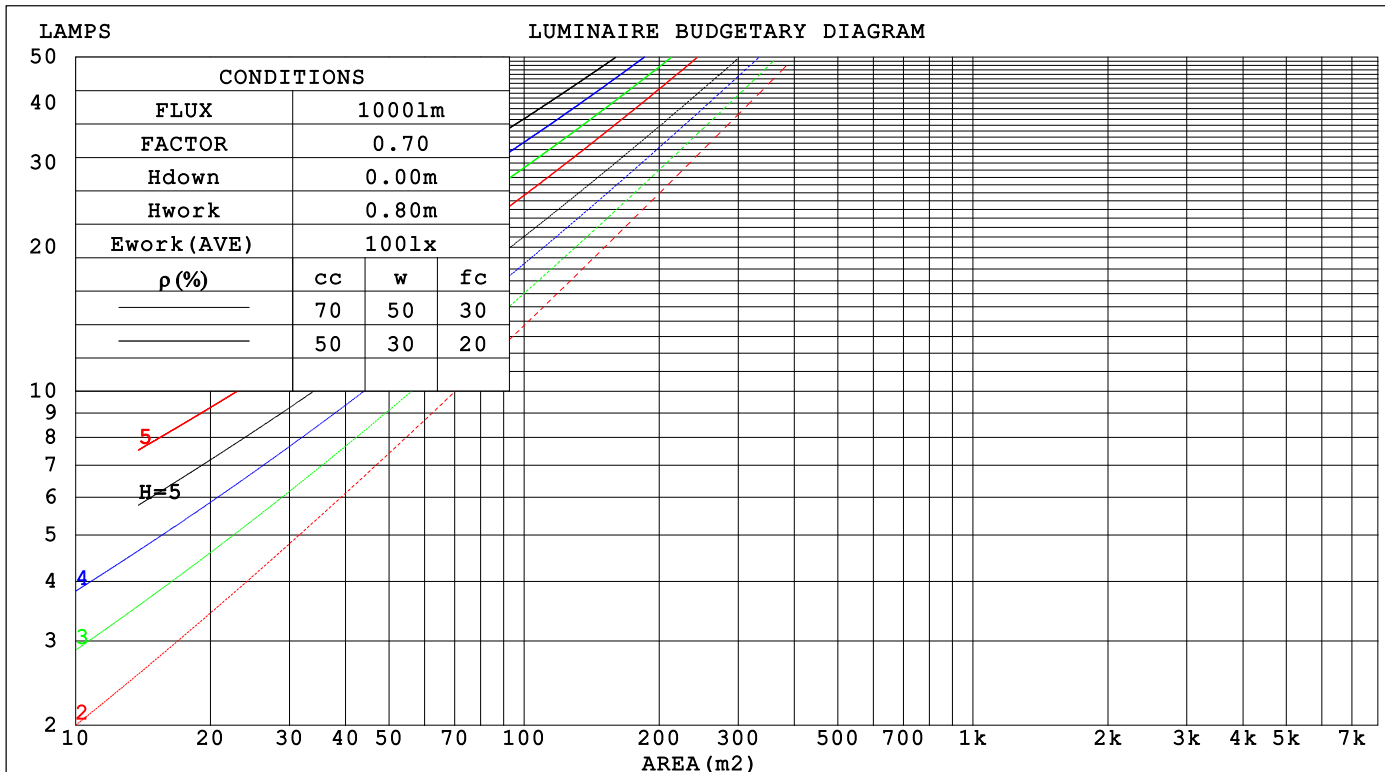
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: WXX
Test Date: 2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 6.820m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz		
Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000x10MM	DIM.: 1000x10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00														
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83														
2.0	.90	.83	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69														
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58														
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50														
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43														
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38														
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33														
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.29														
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26														
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24														



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz		
Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000x10MM	DIM.: 1000x10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.313	.178	.056	.306	.175	.055	.293	.168	.054	.281	.162	.052	.269	.156	.050		
2.0	.292	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.254	.143	.045		
3.0	.270	.144	.043	.265	.142	.043	.254	.138	.042	.245	.134	.041	.236	.131	.040		
4.0	.249	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.211	.111	.033	.204	.109	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030		
7.0	.199	.098	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.181	.156	.134	.154	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015		
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011		
3.0	.165	.114	.074	.141	.099	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009		
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007		
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006		
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005		
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003		
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003		
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm										
NAME: S010128BC1LZ W					TYPE: LED			WEIGHT:		
SPEC.: 1000x10MM					DIM.: 1000x10MM			SERIAL No.: 10101-1177-00		
MFR.: iPixel LED					SUR.: 0.01			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.0	26.5	25.3	26.7	26.9	24.6	26.1	24.9	26.3	26.5
3H	26.1	27.5	26.4	27.7	28.0	25.9	27.3	26.2	27.5	27.8
4H	26.4	27.7	26.7	27.9	28.2	26.3	27.6	26.6	27.9	28.1
6H	26.7	28.0	27.0	28.3	28.5	26.5	27.8	26.8	28.0	28.3
8H	27.0	28.2	27.3	28.5	28.8	26.5	27.8	26.9	28.0	28.3
12H	27.2	28.4	27.6	28.7	29.0	26.5	27.7	26.9	28.0	28.3
4H 2H	25.5	26.9	25.8	27.1	27.4	25.2	26.5	25.5	26.8	27.1
3H	26.8	27.9	27.1	28.2	28.5	26.6	27.8	27.0	28.1	28.4
4H	27.1	28.2	27.5	28.5	28.8	27.1	28.2	27.5	28.5	28.9
6H	27.6	28.6	28.0	28.9	29.3	27.5	28.4	27.9	28.8	29.1
8H	28.0	28.9	28.4	29.2	29.6	27.5	28.4	28.0	28.8	29.2
12H	28.3	29.1	28.8	29.5	29.9	27.6	28.4	28.0	28.8	29.2
8H 4H	27.3	28.2	27.7	28.5	28.9	27.3	28.2	27.7	28.6	28.9
6H	28.0	28.7	28.4	29.1	29.5	27.8	28.5	28.2	28.9	29.3
8H	28.5	29.1	28.9	29.5	30.0	27.9	28.6	28.4	29.0	29.5
12H	29.0	29.6	29.5	30.0	30.5	28.0	28.6	28.5	29.1	29.5
12H 4H	27.3	28.1	27.7	28.5	28.9	27.3	28.1	27.7	28.5	28.9
6H	28.0	28.7	28.5	29.1	29.6	27.8	28.5	28.3	28.9	29.4
8H	28.6	29.2	29.1	29.6	30.1	28.0	28.6	28.5	29.1	29.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.6					+ 0.3 / - 0.3				

CIE Pub.117, 1496 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000x10MM	DIM.: 1000x10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:

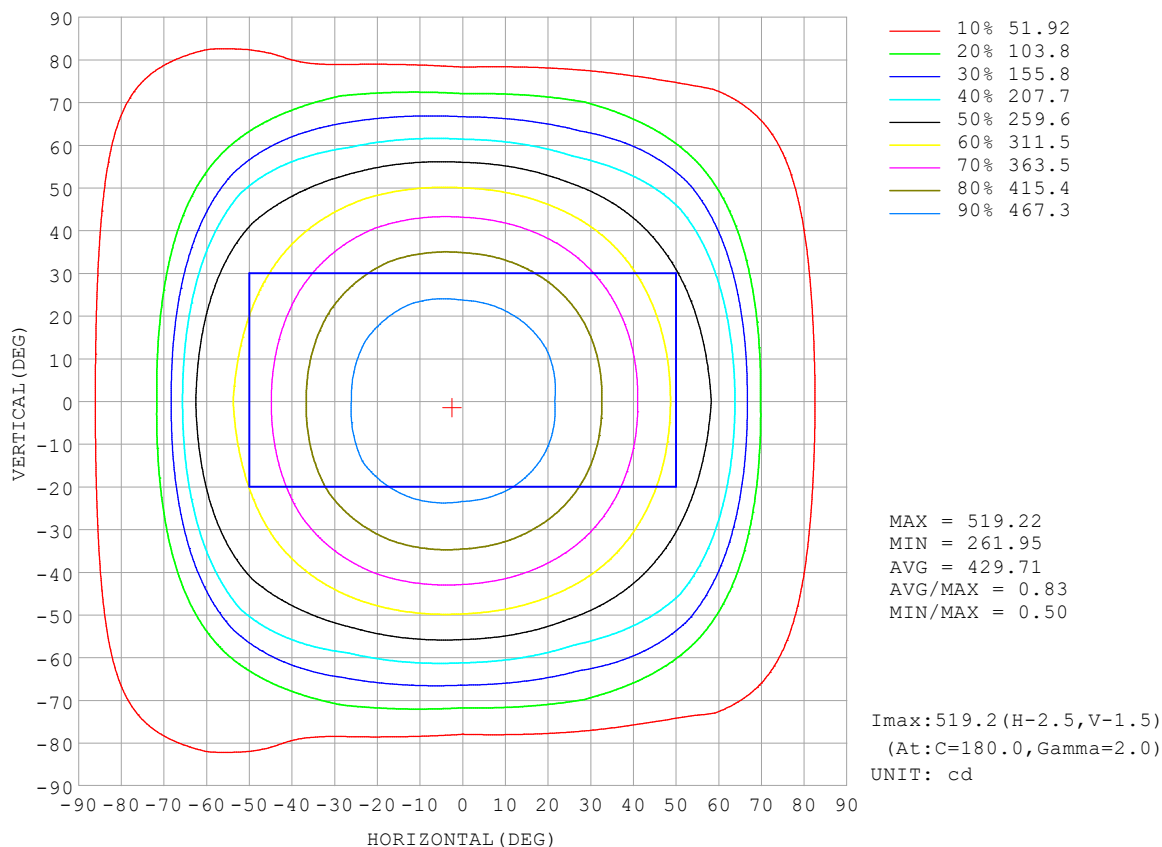
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	69	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: WXX
Test Date: 2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 6.820m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:

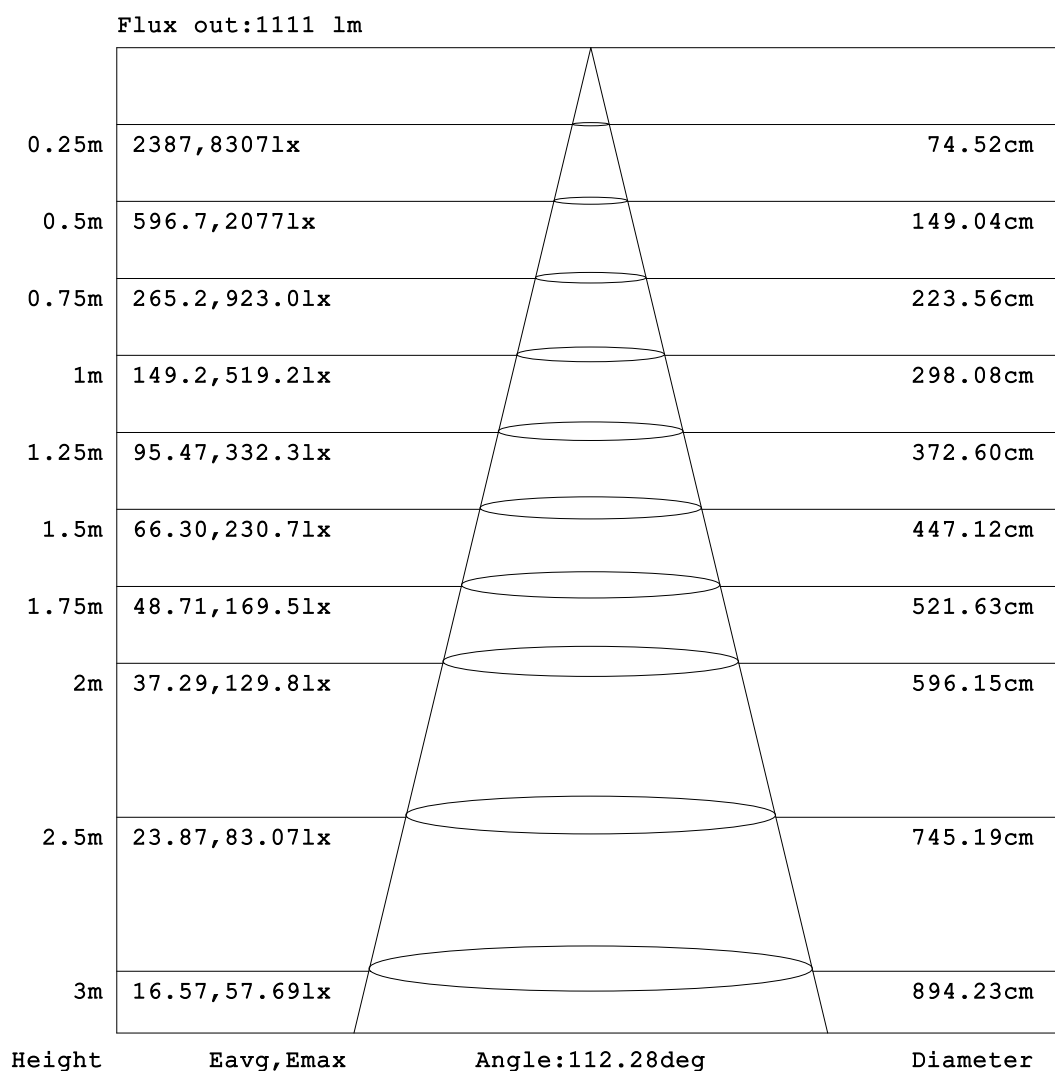


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: WXX
Test Date: 2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 6.820m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:



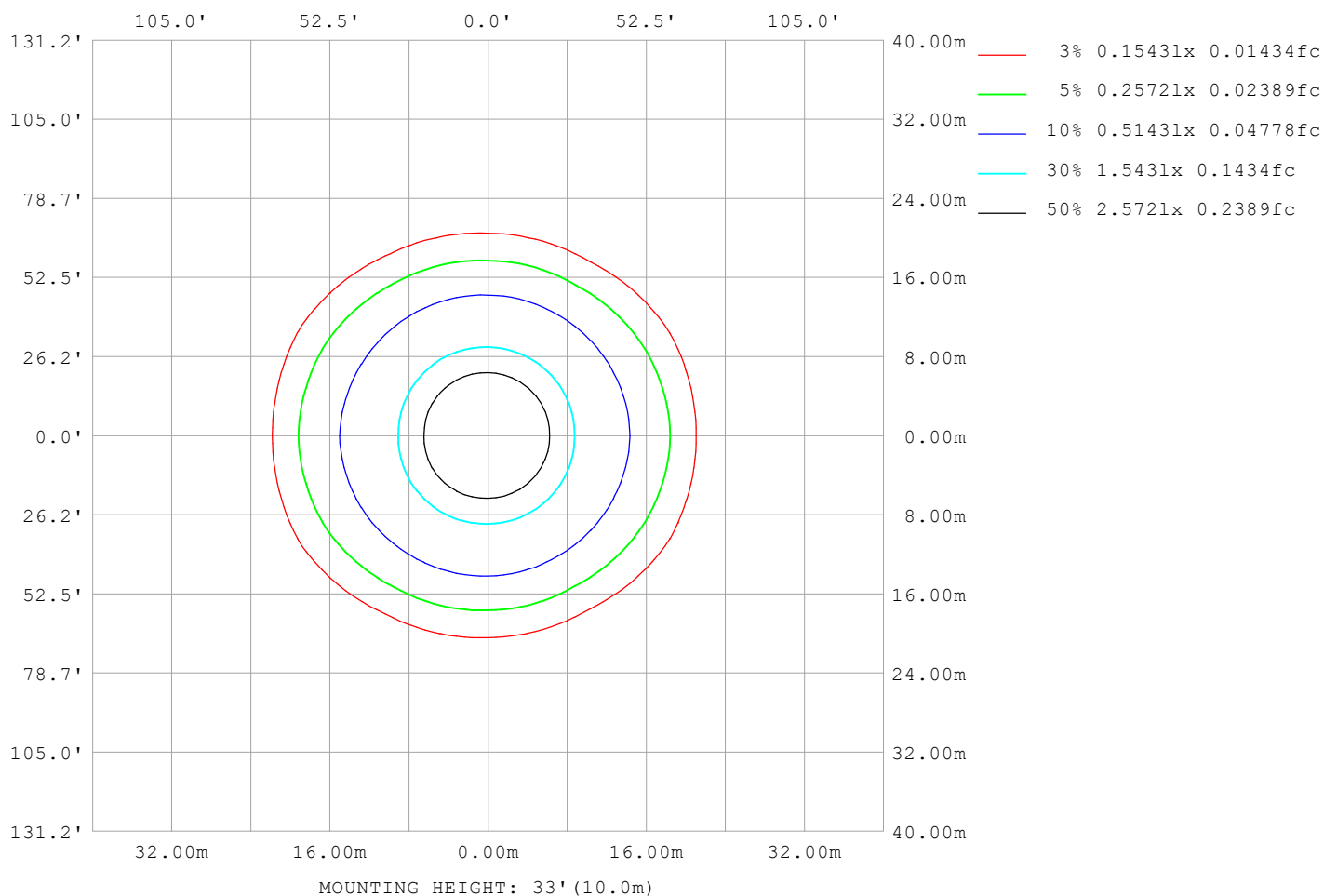
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:WXX
 Test Date:2026-05-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.820m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:

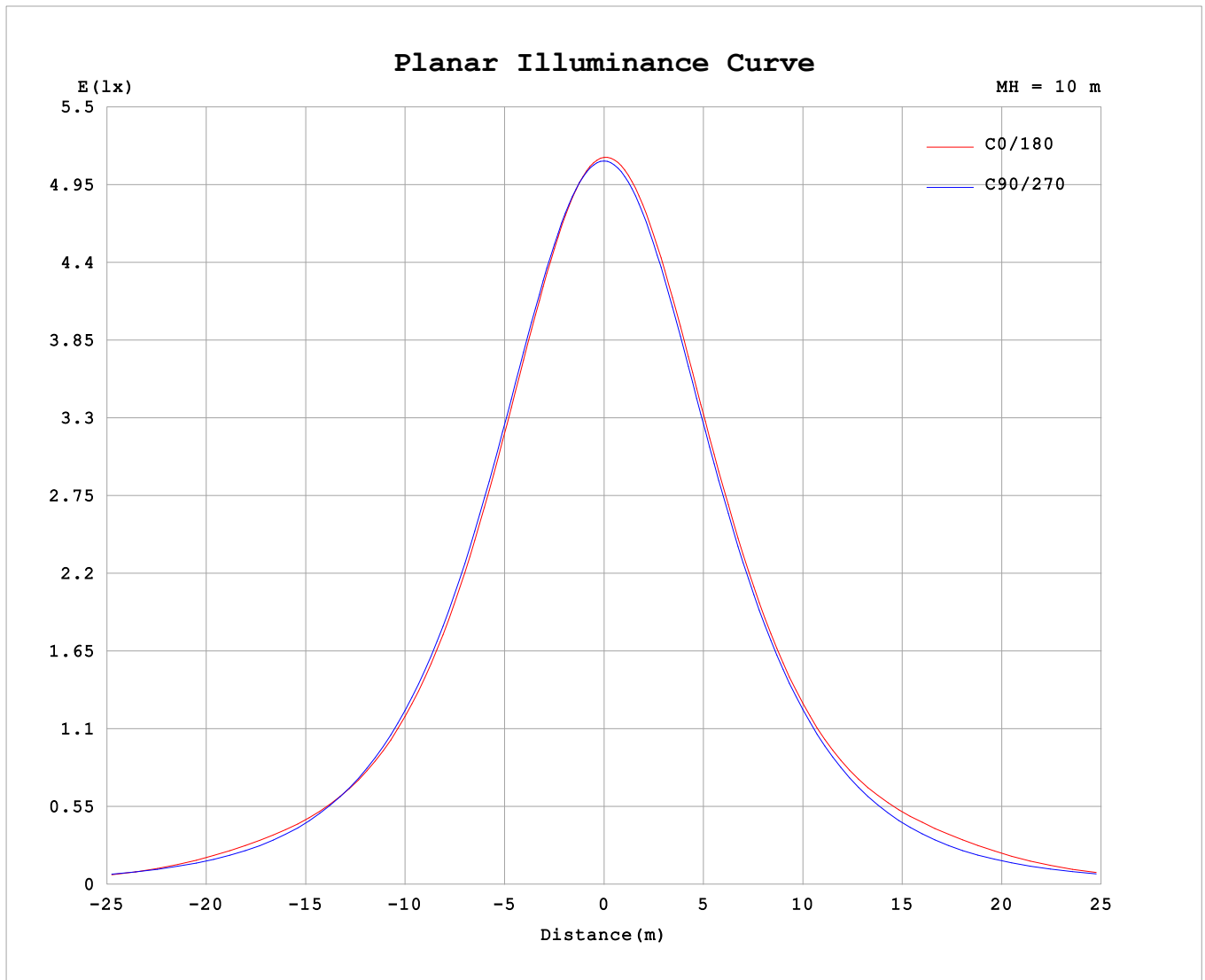
AvgL	cd/m2
L_0~180 (65) av	48304
L_0~180 (75) av	28228
L_0~180 (85) av	59123
L_90~270 (65) av	40775
L_90~270 (75) av	29753
L_90~270 (85) av	16297
L_45 (65) av	45446
L_45 (75) av	31937
L_45 (85) av	46501

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:WXX
Test Date:2026-05-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: WXX
 Test Date: 2026-05-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 6.820m [K=1.0000]
 Remarks:

Test:U:23.997V I:0.4363A P:10.470W PF:1.0000 Freq:0Hz Lamp Flux:1495.6x1 lm		
NAME: S010128BC1LZ W	TYPE: LED	WEIGHT:
SPEC.: 1000×10MM	DIM.: 1000×10MM	SERIAL No.: 10101-1177-00
MFR.: iPixel LED	SUR.: 0.01	Shielding Angle:

UNIT: cd

[illegible]

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.820m [K=1.0000]
Remarks:

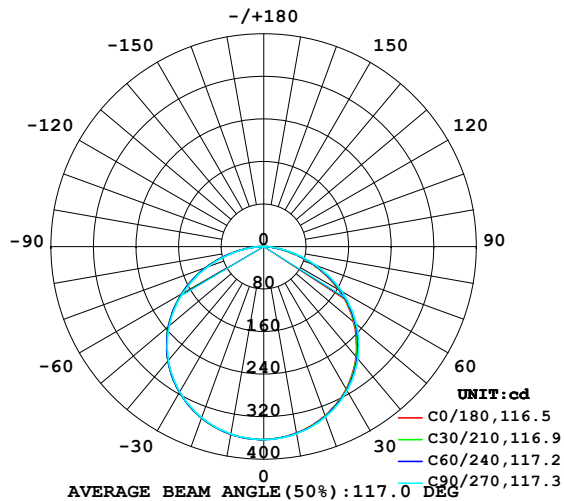
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LUMINAIRE PHOTOMETRIC TEST REPORT

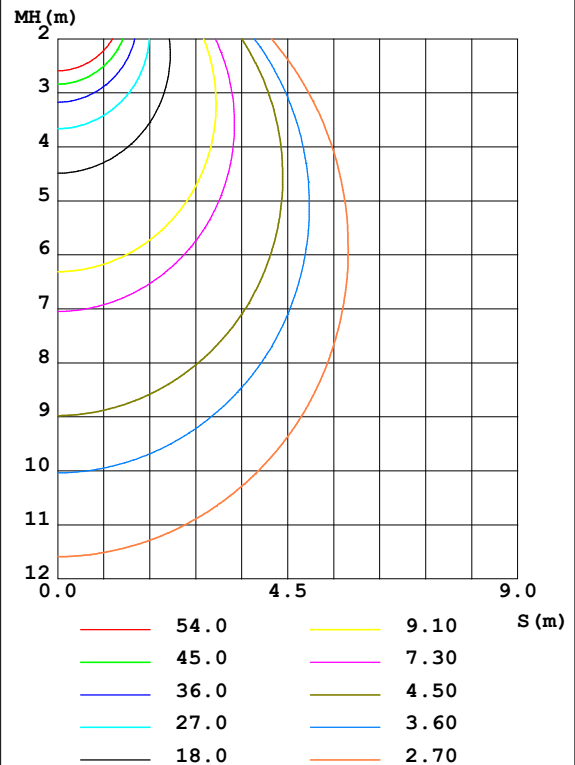
Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 195.48 lm/W			
MODEL		I _{max} (cd)	362.8	S/MH (C0/180)	1.30
NOMINAL POWER (W)	5.6	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	1094.7	η UP, DN (C0-180)	0.2, 48.9
NOMINAL FLUX (lm)	1094.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 50.4
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	24	η down (%)	99.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7125]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	355.9	356.4	357.0	357.8	358.4	358.2	357.6	356.9	0- 10	34.37	34.37	3.14,3.14
20	338.1	339.2	340.3	341.7	342.8	342.8	342.0	340.4	10- 20	98.97	133.3	12.2,12.2
30	309.6	311.3	313.1	315.1	316.6	316.8	315.8	313.3	20- 30	151.6	284.9	26,26
40	270.0	272.8	275.4	278.2	280.2	280.4	279.0	275.4	30- 40	185.5	470.4	43,43
50	220.6	223.9	227.3	231.4	234.6	234.4	232.2	227.4	40- 50	195.8	666.3	60.9,60.9
60	162.9	166.0	169.6	174.7	178.8	178.8	176.2	170.8	50- 60	180.1	846.4	77.3,77.3
70	98.05	101.1	105.1	111.3	116.3	115.9	112.7	106.6	60- 70	139.3	985.8	90,90
80	34.17	36.97	40.85	47.20	52.32	51.53	47.94	42.10	70- 80	79.76	1066	97.3,97.3
90	1.396	0.4279	0.6674	3.119	5.372	4.456	2.856	2.009	80- 90	21.90	1087	99.3,99.3
100	0.6378	0.4883	0.5950	1.158	1.705	1.728	1.528	1.162	90-100	1.447	1089	99.5,99.5
110	0.5916	0.4966	0.5958	1.035	1.474	1.572	1.475	1.131	100-110	1.138	1090	99.6,99.6
120	0.6441	0.5515	0.6442	1.059	1.479	1.593	1.518	1.182	110-120	1.053	1091	99.7,99.7
130	0.7234	0.6274	0.7102	1.105	1.502	1.590	1.504	1.200	120-130	0.9981	1092	99.8,99.8
140	0.7660	0.6819	0.7653	1.143	1.518	1.590	1.498	1.211	130-140	0.8788	1093	99.8,99.8
150	0.8435	0.7833	0.8579	1.170	1.479	1.547	1.475	1.229	140-150	0.7323	1094	99.9,99.9
160	0.9911	0.9507	0.9990	1.201	1.406	1.467	1.433	1.264	150-160	0.5525	1094	100,100
170	1.368	1.218	1.153	1.224	1.324	1.357	1.370	1.375	160-170	0.3550	1095	100,100
180	1.338	1.302	1.273	1.253	1.243	1.252	1.271	1.300	170-180	0.1239	1095	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 568.66 lm

%lum = 51.9%

%lamp = 51.9%

Conical surface Flux(120deg): 846.44 lm

%lum = 77.3%

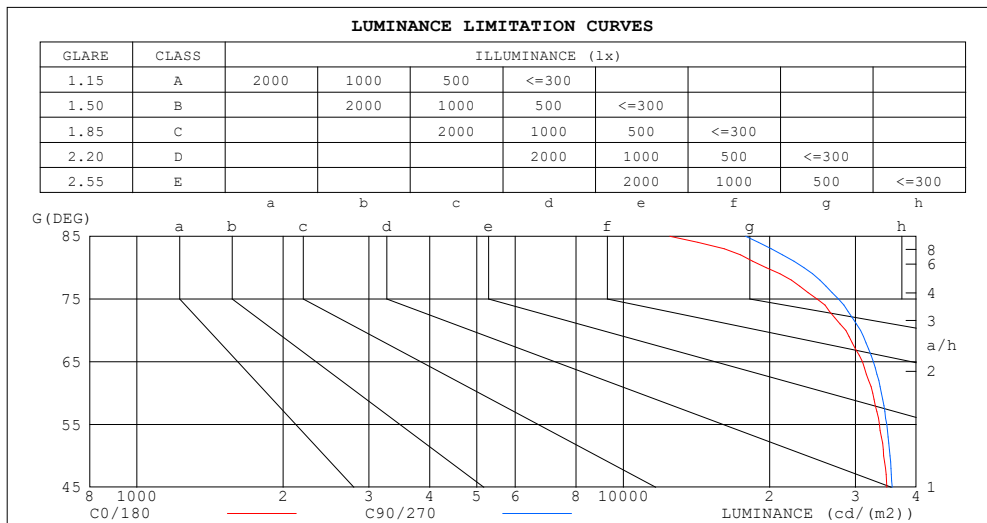
%lamp = 77.3%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12473	17861
80	19676	23522
75	25027	27689
70	28667	30732
65	31032	32688
60	32577	33920
55	33604	34798
50	34324	35358
45	34816	35716

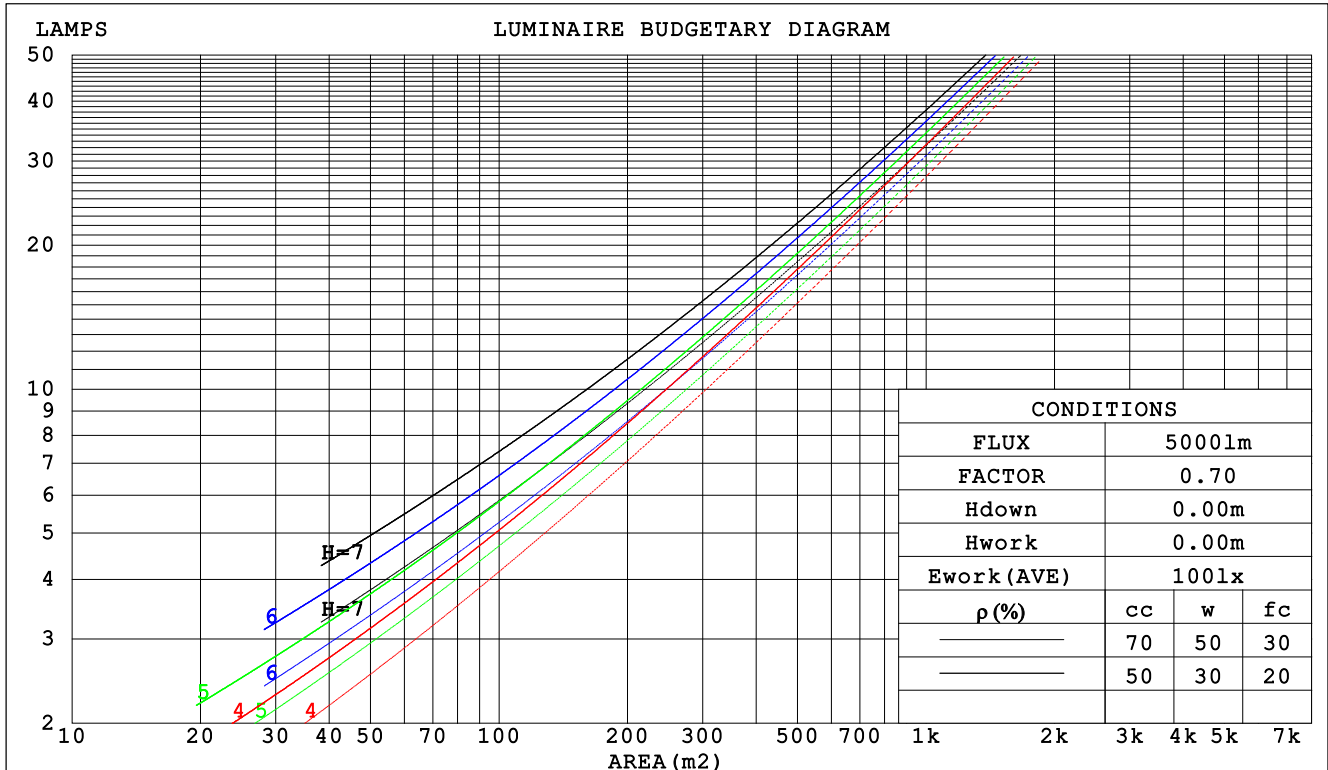
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.94	.97	.93	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.41	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

WEC AND CCEC

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.315	.179	.057	.307	.175	.056	.294	.168	.054	.281	.162	.052	.270	.156	.050		
2.0	.296	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041		
4.0	.252	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.220	.120	.036		
5.0	.233	.119	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.204	.109	.033		
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023		
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.152	.118	.089	.104	.082	.062	.060	.047	.036	.019	.015	.012	
3.0	.170	.119	.079	.146	.103	.068	.100	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.063	.140	.092	.055	.096	.064	.039	.056	.037	.023	.018	.012	.008	
5.0	.155	.096	.052	.133	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.044	.127	.076	.038	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.081	.038	.122	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.026	.077	.043	.019	.045	.025	.011	.014	.008	.004	
10.0	.123	.066	.028	.106	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz										
Lamp Flux:1094.7x1 lm										
Name: S010090BC1LZ										
MFR.:										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.0	26.5	25.3	26.7	27.0	25.1	26.7	25.4	26.9	27.1
3H	26.4	27.8	26.7	28.1	28.3	26.7	28.1	27.0	28.3	28.6
4H	27.0	28.3	27.3	28.6	28.8	27.2	28.6	27.6	28.8	29.1
6H	27.3	28.5	27.6	28.8	29.1	27.6	28.9	27.9	29.2	29.4
8H	27.3	28.5	27.7	28.8	29.1	27.7	28.9	28.1	29.2	29.5
12H	27.3	28.5	27.7	28.8	29.1	27.7	28.9	28.1	29.2	29.5
4H 2H	25.6	27.0	25.9	27.2	27.5	25.7	27.1	26.1	27.3	27.6
3H	27.2	28.4	27.6	28.7	29.0	27.4	28.6	27.8	28.9	29.2
4H	27.8	28.9	28.2	29.3	29.6	28.1	29.2	28.5	29.5	29.9
6H	28.3	29.2	28.7	29.6	30.0	28.6	29.5	29.0	29.9	30.3
8H	28.4	29.2	28.8	29.6	30.0	28.7	29.6	29.1	30.0	30.4
12H	28.4	29.2	28.8	29.6	30.0	28.8	29.6	29.2	30.0	30.4
8H 4H	28.1	29.0	28.5	29.4	29.8	28.3	29.2	28.7	29.6	30.0
6H	28.6	29.3	29.1	29.8	30.2	28.9	29.6	29.4	30.1	30.5
8H	28.8	29.4	29.2	29.9	30.3	29.1	29.8	29.6	30.2	30.7
12H	28.9	29.4	29.3	29.9	30.4	29.2	29.8	29.7	30.3	30.8
12H 4H	28.1	28.9	28.5	29.3	29.7	28.3	29.1	28.7	29.5	29.9
6H	28.6	29.3	29.1	29.7	30.2	28.9	29.6	29.4	30.0	30.5
8H	28.8	29.4	29.3	29.9	30.4	29.2	29.7	29.7	30.2	30.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1095 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 0.3$)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		

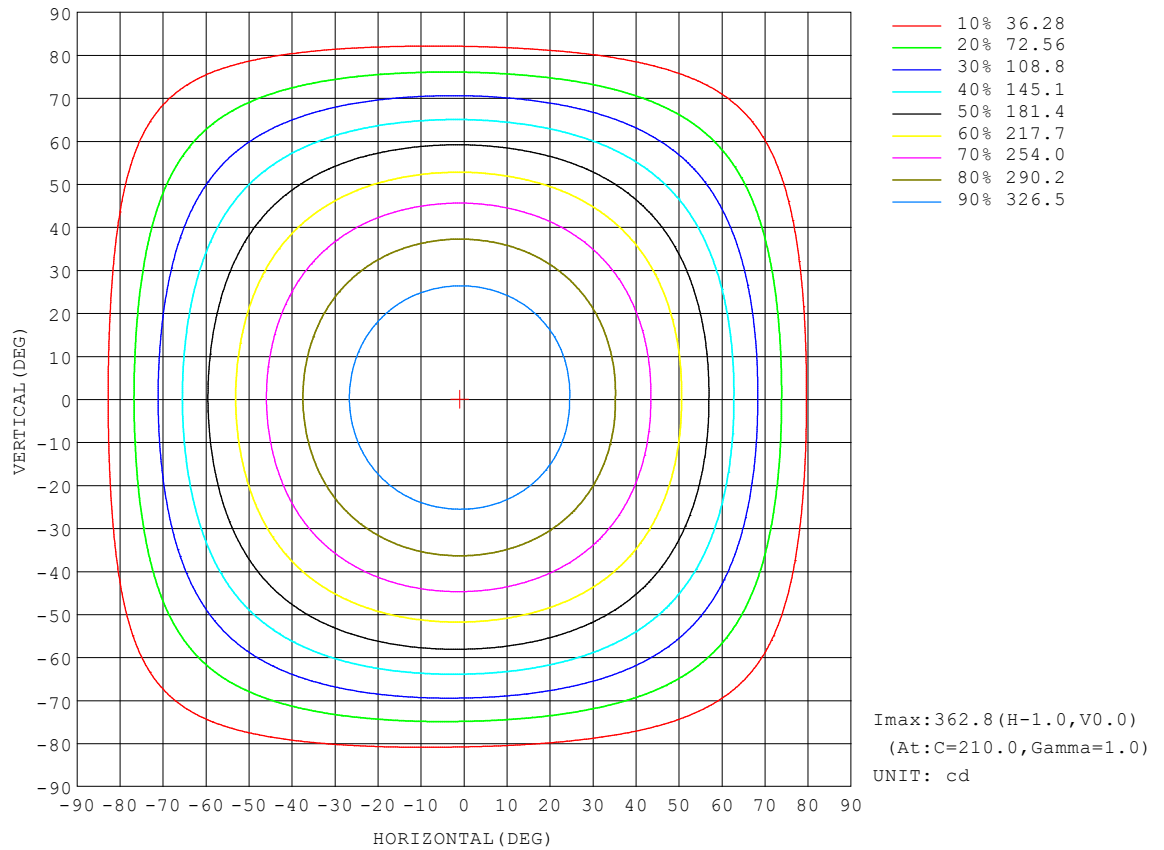
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	65	55	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		

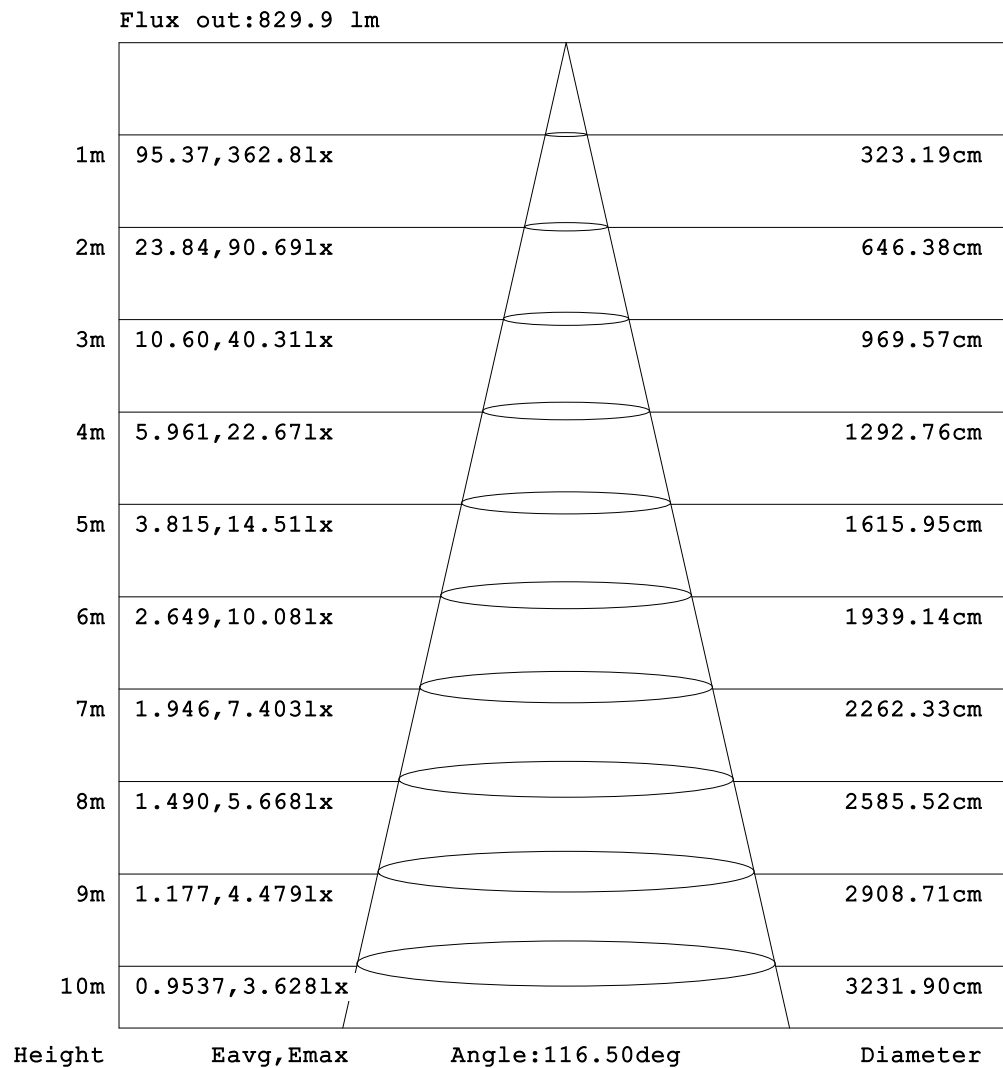


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

AAI Figure

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		



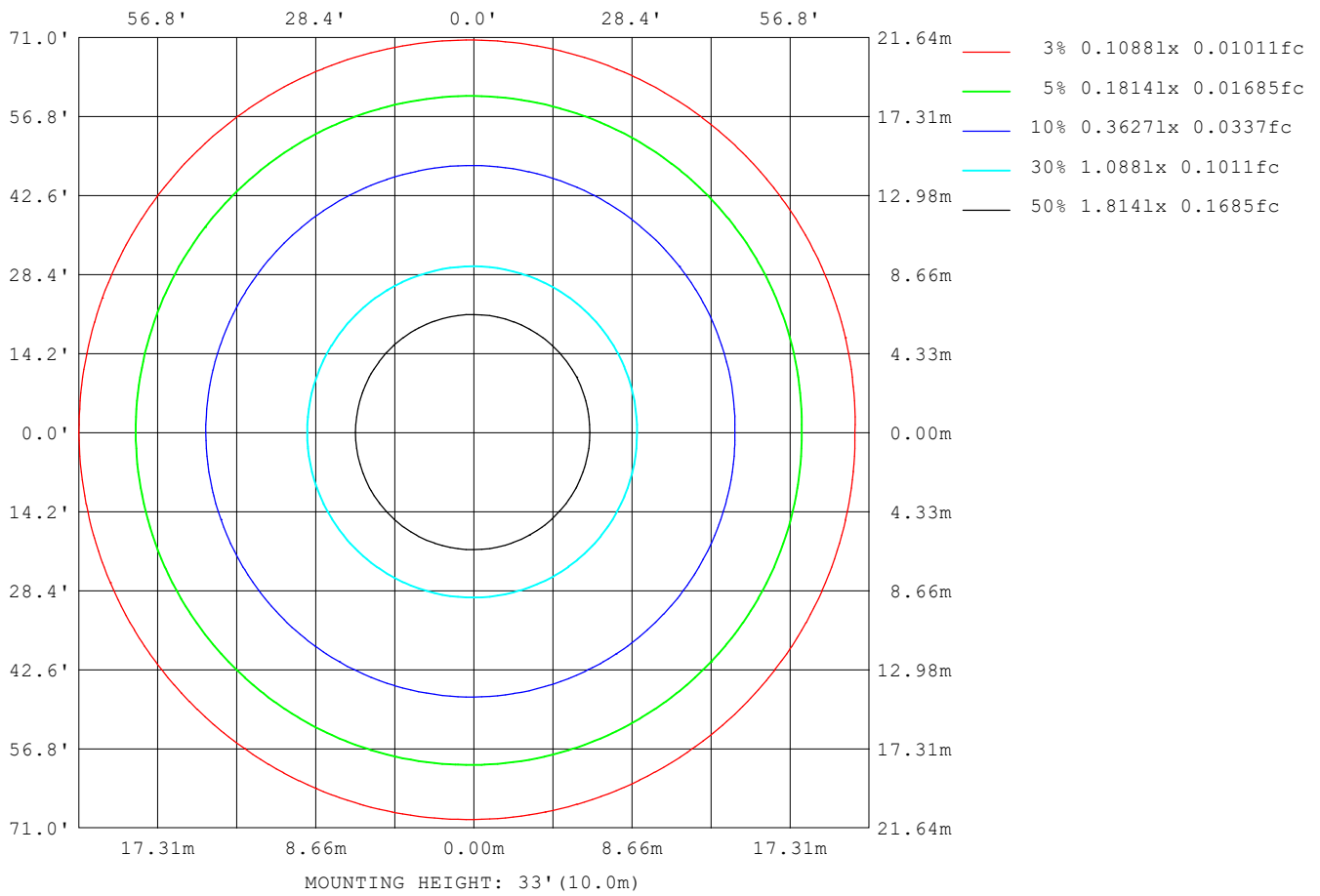
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

ISOLUX DIAGRAM

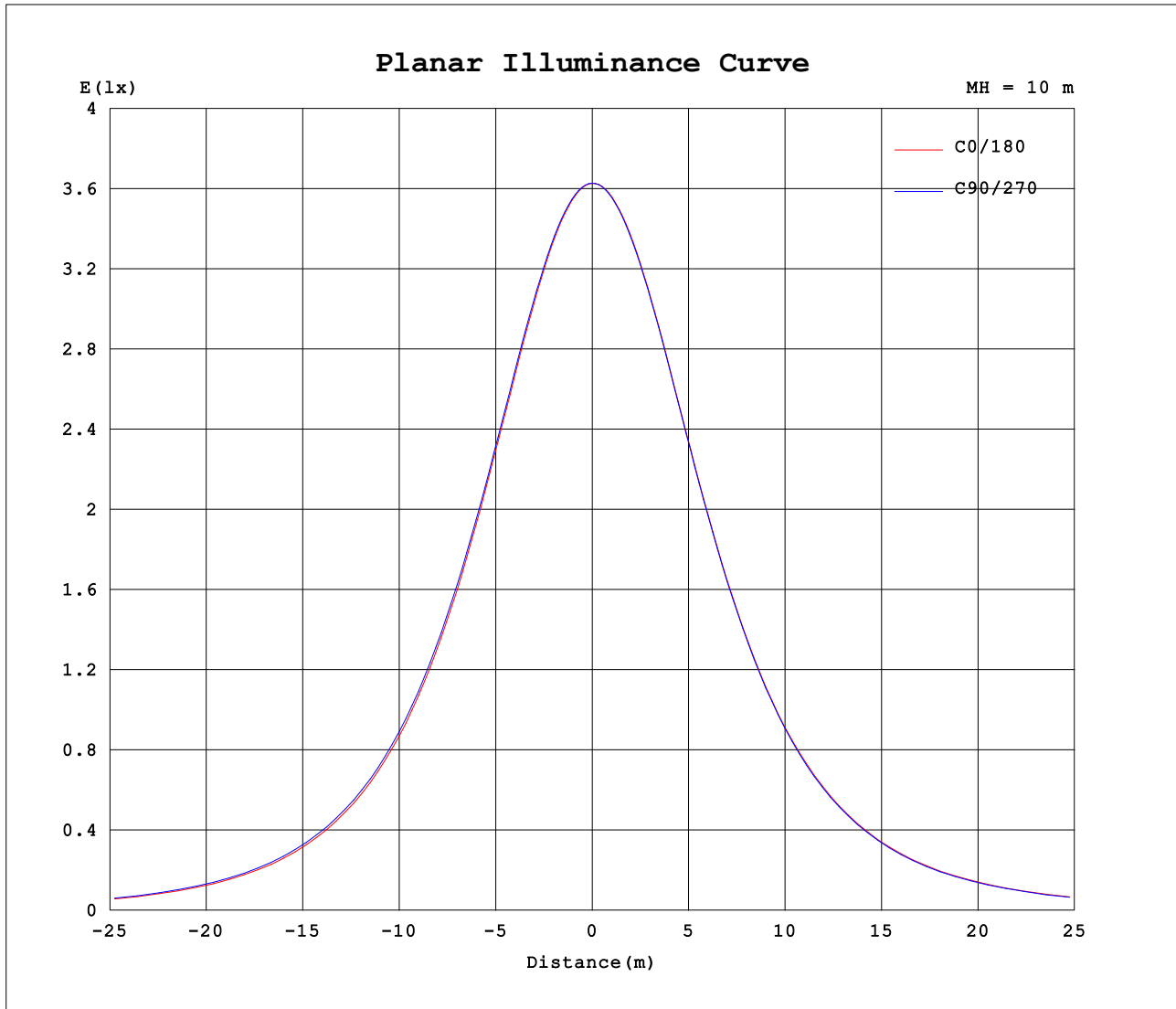
Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7125]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.2340A P:5.6000W PF:1.0000 Freq:0Hz		
Lamp Flux:1094.7x1 lm		
Name: S010090BC1LZ		
MFR.:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	363	363	363	363	363	363	363	363	363	363	363	363						
5	361	361	361	361	362	362	362	362	362	362	361	361						
10	356	356	357	357	358	358	358	358	358	358	357	357						
15	348	349	349	350	351	351	352	352	352	351	351	350						
20	338	339	340	340	341	342	343	343	343	342	341	340						
25	325	326	327	328	329	330	331	331	331	330	329	327						
30	310	311	312	313	314	316	317	317	317	316	314	312						
35	291	293	294	296	297	299	300	300	300	299	297	294						
40	270	272	274	275	277	279	280	281	280	279	277	274						
45	246	248	251	253	255	257	258	259	258	257	254	251						
50	221	223	225	227	230	233	235	235	234	232	229	226						
55	193	195	197	200	203	205	207	208	207	205	202	198						
60	163	165	167	170	173	176	179	179	178	176	173	169						
65	131	133	135	138	142	146	148	149	148	145	142	137						
70	98.0	99.9	102	105	109	113	116	117	115	113	109	104						
75	64.8	66.5	68.8	71.7	76.2	80.5	83.7	83.9	82.4	79.5	75.8	70.9						
80	34.2	35.9	38.1	40.8	45.2	49.2	52.3	52.3	50.8	47.9	44.4	39.8						
85	10.9	12.0	13.5	15.6	18.9	22.1	24.5	24.5	23.3	21.1	18.5	15.1						
90	1.40	0.55	0.31	0.67	2.26	3.98	5.37	4.93	3.99	2.86	2.25	1.77						
95	0.80	0.60	0.54	0.64	1.02	1.44	1.81	1.85	1.76	1.57	1.37	1.12						
100	0.64	0.50	0.48	0.59	0.96	1.36	1.71	1.76	1.69	1.53	1.31	1.01						
105	0.59	0.49	0.49	0.59	0.89	1.23	1.53	1.62	1.61	1.50	1.29	0.99						
110	0.59	0.50	0.50	0.60	0.88	1.19	1.47	1.57	1.57	1.47	1.28	0.98						
115	0.60	0.51	0.51	0.61	0.89	1.19	1.47	1.57	1.58	1.48	1.29	1.00						
120	0.64	0.55	0.55	0.64	0.91	1.21	1.48	1.59	1.60	1.52	1.33	1.04						
125	0.69	0.59	0.59	0.68	0.94	1.23	1.50	1.59	1.60	1.51	1.33	1.05						
130	0.72	0.63	0.63	0.71	0.96	1.25	1.50	1.59	1.59	1.50	1.33	1.07						
135	0.75	0.66	0.65	0.73	0.98	1.26	1.51	1.59	1.58	1.49	1.33	1.08						
140	0.77	0.68	0.68	0.77	1.01	1.28	1.52	1.59	1.59	1.50	1.33	1.09						
145	0.79	0.72	0.73	0.81	1.05	1.30	1.53	1.60	1.58	1.49	1.33	1.10						
150	0.84	0.78	0.79	0.86	1.06	1.28	1.48	1.55	1.55	1.48	1.33	1.12						
155	0.91	0.86	0.86	0.93	1.09	1.28	1.44	1.51	1.51	1.46	1.34	1.15						
160	0.99	0.95	0.95	1.00	1.13	1.27	1.41	1.46	1.47	1.43	1.34	1.19						
165	1.15	1.09	1.06	1.08	1.16	1.27	1.37	1.41	1.42	1.41	1.35	1.27						
170	1.37	1.25	1.18	1.15	1.19	1.26	1.32	1.35	1.36	1.37	1.37	1.37						
175	1.41	1.31	1.25	1.22	1.22	1.25	1.28	1.29	1.31	1.32	1.35	1.37						
180	1.34	1.31	1.29	1.27	1.26	1.25	1.24	1.25	1.26	1.27	1.29	1.31						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

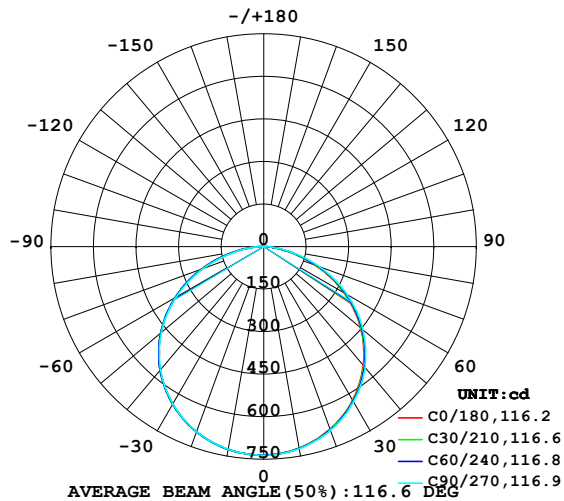
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

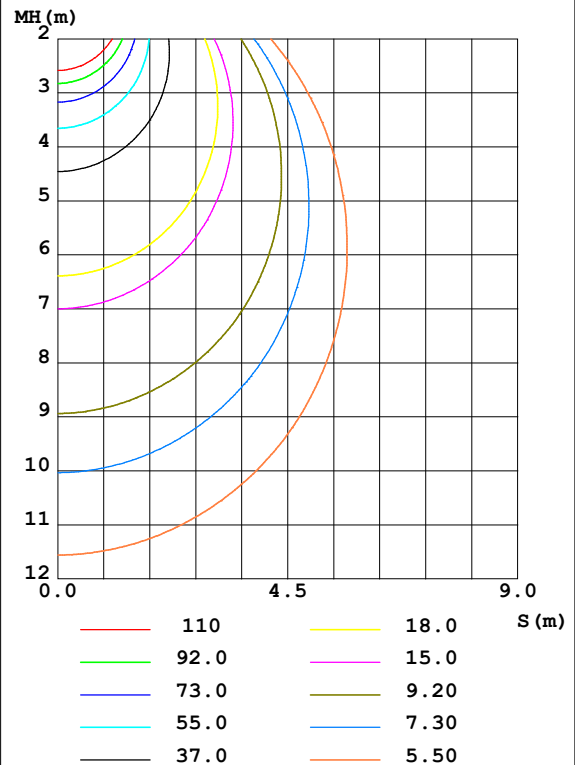
Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 195.60 lm/W			
MODEL		I _{max} (cd)	735.5	S/MH (C0/180)	1.30
NOMINAL POWER (W)	11.3	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	2210.3	η UP, DN (C0-180)	0.3, 48.7
NOMINAL FLUX (lm)	2210.25	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 50.5
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	24	η down (%)	99.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7125]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	721.1	722.0	723.2	724.8	726.1	726.2	725.4	723.7	0- 10	69.66	69.66	3.15,3.15
20	684.7	686.4	688.6	691.8	694.5	695.0	693.8	690.2	10- 20	200.5	270.2	12.2,12.2
30	626.2	629.2	632.6	637.3	641.3	642.5	641.0	635.2	20- 30	307.1	577.3	26.1,26.1
40	546.0	551.0	556.4	563.1	568.4	569.5	566.8	558.5	30- 40	375.6	952.9	43.1,43.1
50	445.6	450.5	456.7	465.9	473.6	475.0	471.6	461.3	40- 50	395.9	1349	61,61
60	328.3	333.1	339.9	351.0	360.5	361.8	357.5	345.8	50- 60	363.6	1712	77.5,77.5
70	195.3	201.4	209.6	222.9	233.8	233.6	227.2	214.1	60- 70	280.5	1993	90.2,90.2
80	66.63	71.47	79.14	92.99	104.4	102.4	94.59	82.63	70- 80	159.0	2152	97.4,97.4
90	2.507	0.9354	1.521	6.098	10.24	8.438	5.350	3.701	80- 90	42.20	2194	99.3,99.3
100	1.616	1.409	1.641	2.666	3.642	3.640	3.235	2.560	90-100	3.125	2197	99.4,99.4
110	1.467	1.359	1.585	2.408	3.208	3.344	3.116	2.464	100-110	2.573	2200	99.5,99.5
120	1.529	1.437	1.660	2.446	3.210	3.351	3.141	2.506	110-120	2.364	2202	99.6,99.6
130	1.687	1.581	1.777	2.507	3.225	3.385	3.214	2.619	120-130	2.216	2204	99.7,99.7
140	1.776	1.662	1.837	2.519	3.198	3.374	3.236	2.672	130-140	1.964	2206	99.8,99.8
150	1.917	1.798	1.935	2.515	3.105	3.293	3.209	2.718	140-150	1.605	2208	99.9,99.9
160	2.170	2.113	2.216	2.595	2.983	3.141	3.109	2.758	150-160	1.203	2209	100,100
170	2.426	2.446	2.517	2.673	2.834	2.956	2.981	2.781	160-170	0.7580	2210	100,100
180	2.644	2.734	2.767	2.700	2.636	2.715	2.792	2.752	170-180	0.2589	2210	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1151.5 lm

%lum = 52.1%

%lamp = 52.1%

Conical surface Flux(120deg): 1712.4 lm

%lum = 77.5%

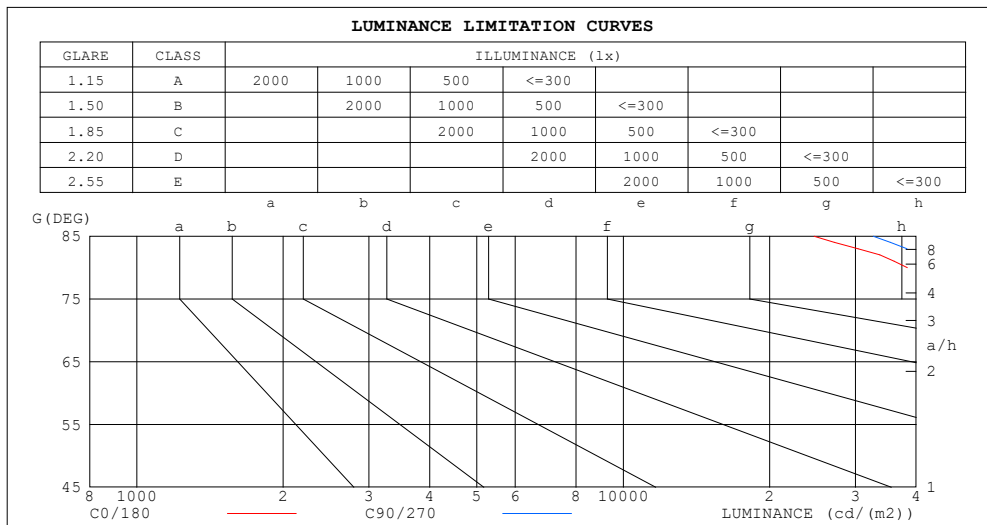
%lamp = 77.5%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	24676	32659
80	38373	45575
75	49576	54799
70	57108	61284
65	62295	65355
60	65651	67976
55	67898	69862
50	69331	71048
45	70392	71858

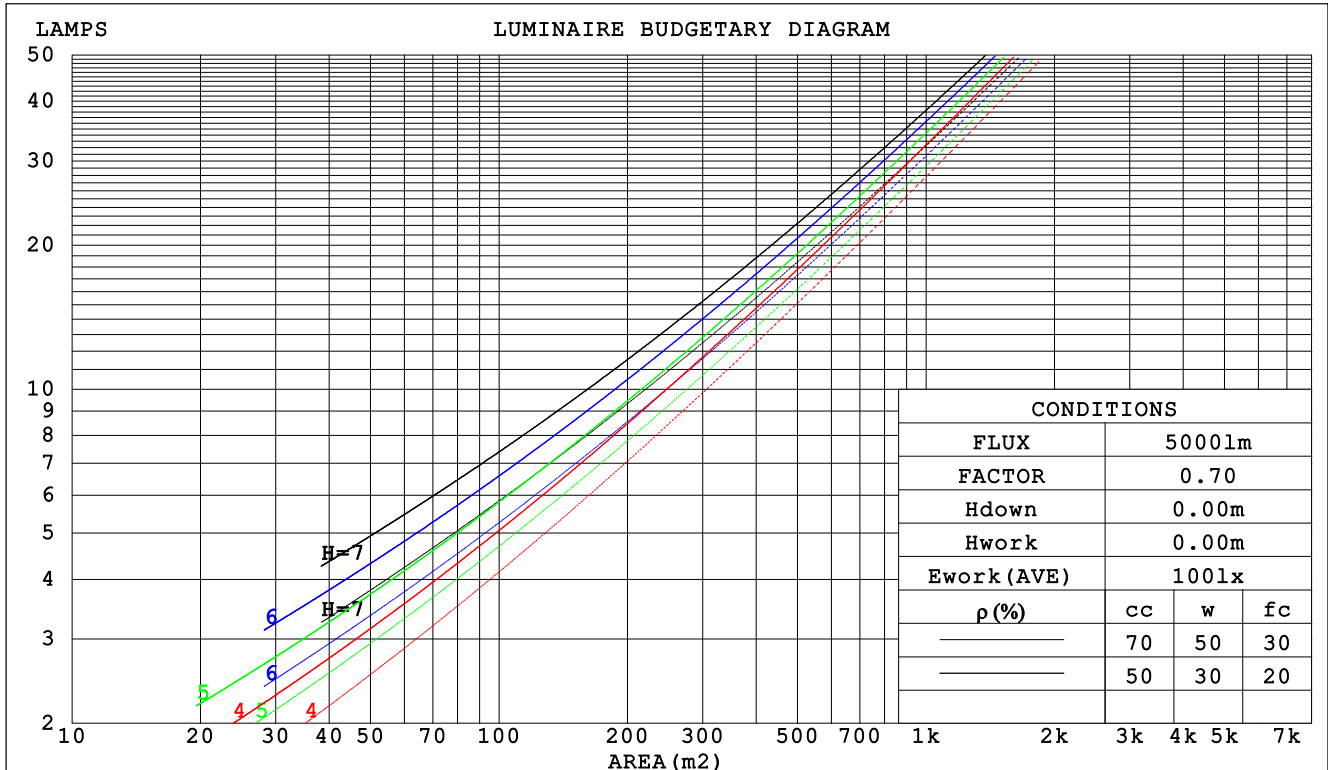
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

WEC AND CCEC

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz											
Lamp Flux:2210.25x1 lm											
Name: S010180BC1LZ											
MFR.:											

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.313	.178	.056	.306	.174	.055	.292	.168	.054	.280	.161	.052	.268	.155	.050	
2.0	.295	.162	.050	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.045	
3.0	.273	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.228	.122	.037	.220	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.074	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.162	.140	.159	.139	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.138	.103	.153	.118	.089	.105	.082	.062	.060	.048	.037	.019	.015	.012	
3.0	.171	.120	.080	.146	.103	.069	.100	.072	.048	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.092	.055	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.096	.053	.134	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.045	.128	.076	.039	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.142	.081	.039	.122	.070	.034	.084	.049	.024	.049	.029	.014	.016	.010	.005	
8.0	.135	.075	.034	.116	.065	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.070	.031	.111	.061	.027	.077	.043	.019	.045	.025	.011	.015	.008	.004	
10.0	.123	.066	.028	.106	.057	.025	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz Lamp Flux:2210.25x1 lm										
Name: S010180BC1LZ										
MFR.:										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	27.4	28.9	27.7	29.2	29.4	27.5	29.1	27.8	29.3	29.5
3H	28.8	30.3	29.2	30.5	30.8	29.0	30.5	29.4	30.7	31.0
4H	29.3	30.7	29.7	31.0	31.2	29.6	30.9	29.9	31.2	31.5
6H	29.6	30.9	30.0	31.2	31.5	30.0	31.2	30.3	31.5	31.8
8H	29.7	30.9	30.0	31.2	31.5	30.0	31.3	30.4	31.6	31.9
12H	29.7	30.9	30.1	31.2	31.5	30.1	31.2	30.4	31.5	31.9
4H 2H	28.0	29.4	28.4	29.6	29.9	28.1	29.5	28.5	29.7	30.0
3H	29.6	30.8	30.0	31.1	31.4	29.8	31.0	30.2	31.3	31.6
4H	30.2	31.3	30.6	31.6	32.0	30.5	31.5	30.8	31.9	32.2
6H	30.6	31.6	31.0	31.9	32.3	30.9	31.9	31.3	32.2	32.6
8H	30.7	31.6	31.1	32.0	32.4	31.0	31.9	31.5	32.3	32.7
12H	30.7	31.6	31.2	32.0	32.4	31.1	31.9	31.5	32.3	32.7
8H 4H	30.5	31.3	30.9	31.7	32.1	30.7	31.5	31.1	31.9	32.3
6H	31.0	31.7	31.4	32.1	32.6	31.2	32.0	31.7	32.4	32.8
8H	31.1	31.8	31.6	32.2	32.7	31.4	32.1	31.9	32.5	33.0
12H	31.2	31.7	31.7	32.2	32.7	31.5	32.1	32.0	32.6	33.0
12H 4H	30.5	31.3	30.9	31.7	32.1	30.7	31.5	31.1	31.9	32.3
6H	31.0	31.6	31.5	32.1	32.5	31.3	31.9	31.7	32.3	32.8
8H	31.2	31.7	31.6	32.2	32.7	31.5	32.0	32.0	32.5	33.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2210 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.8$)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		

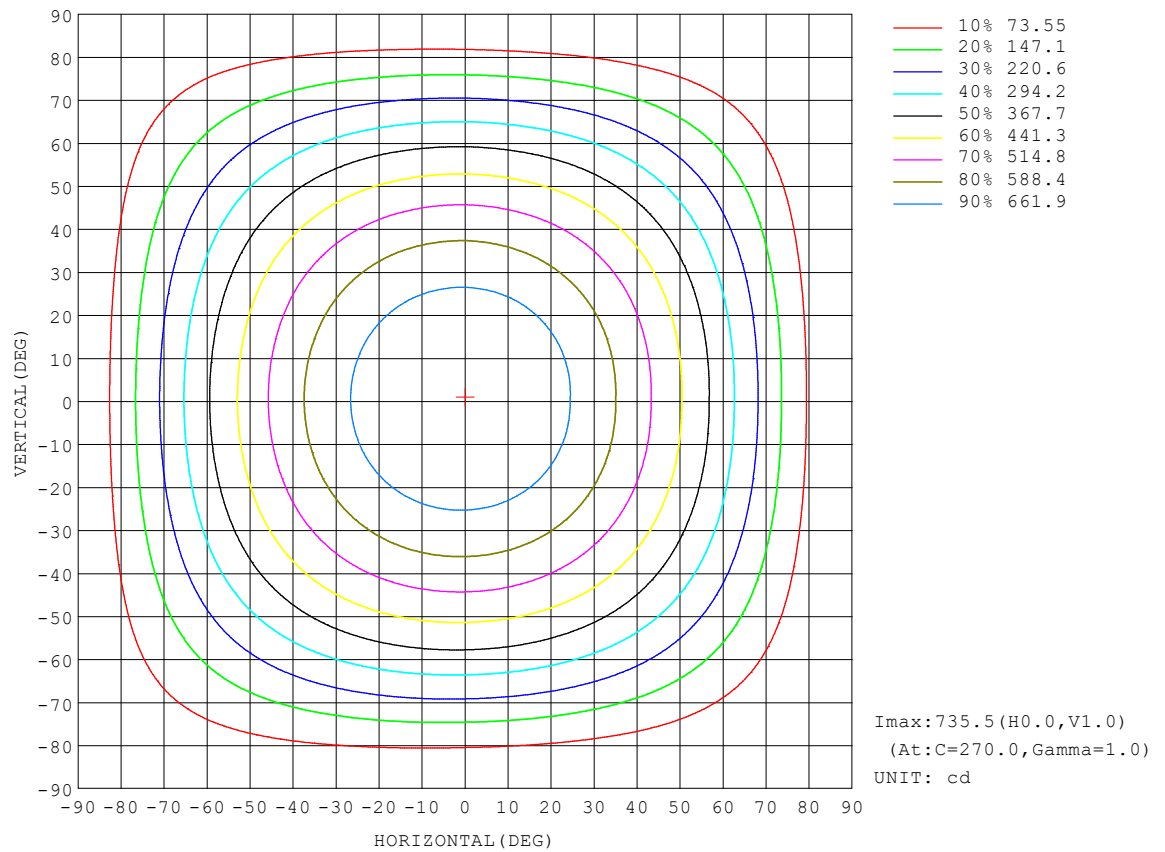
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		

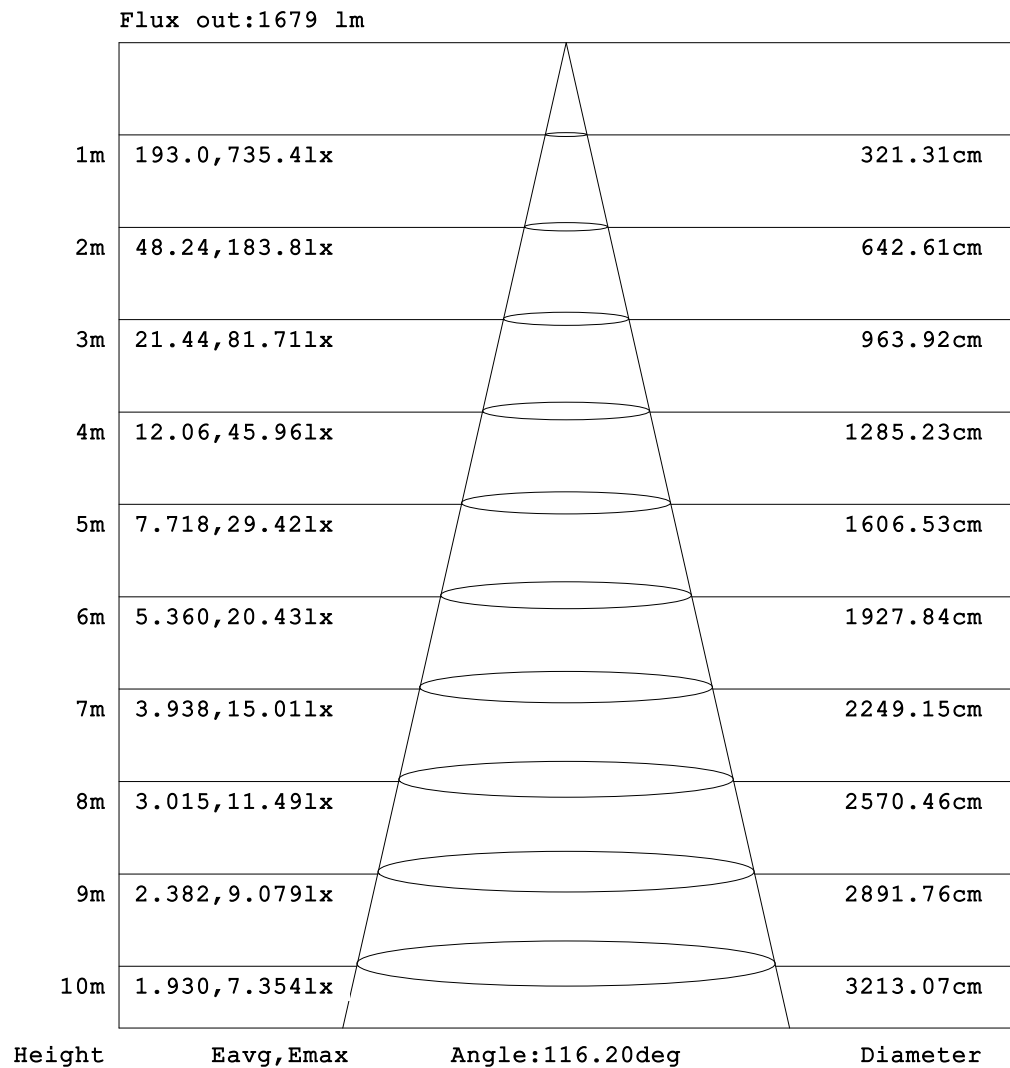


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

AAI Figure

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		



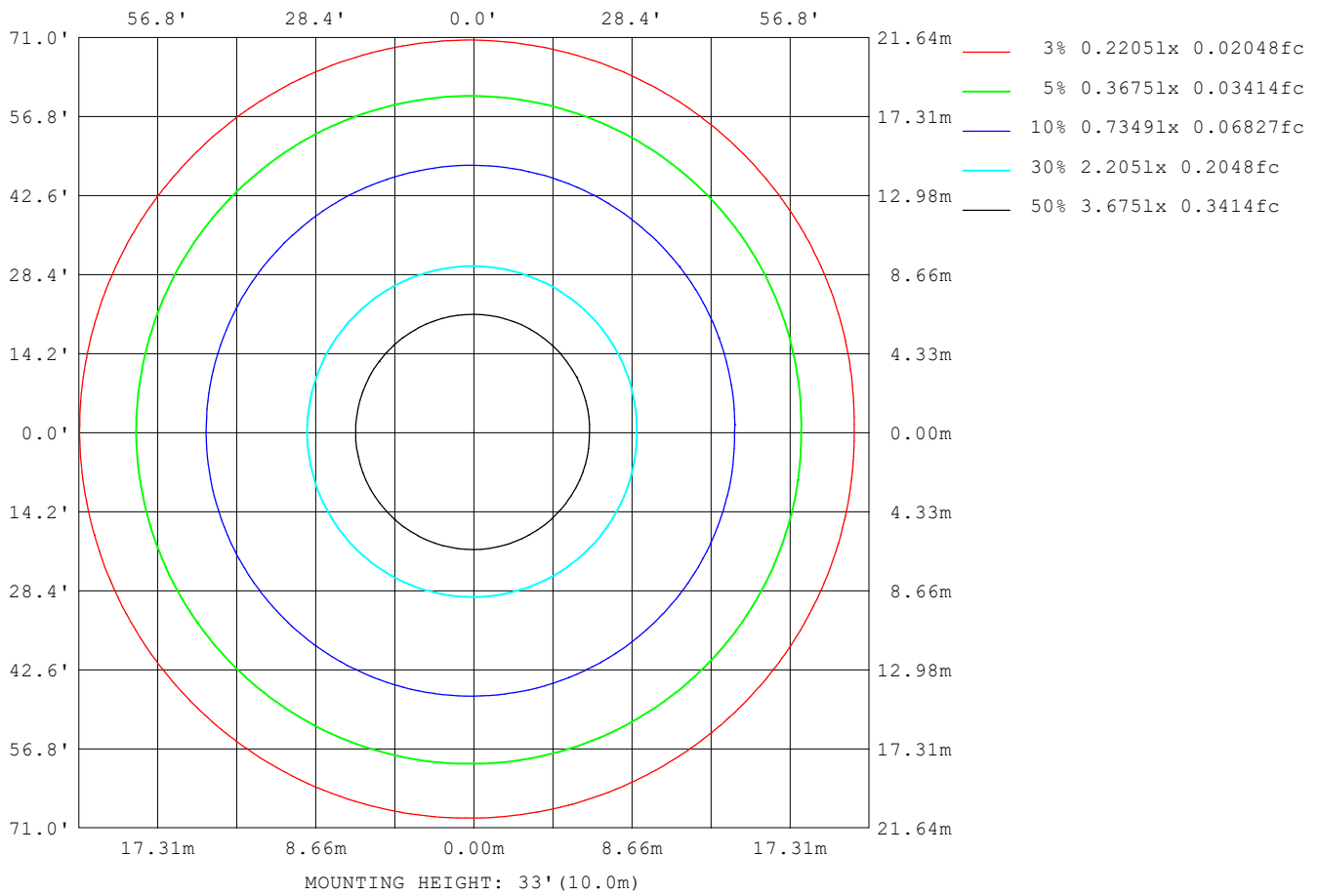
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

ISOLUX DIAGRAM

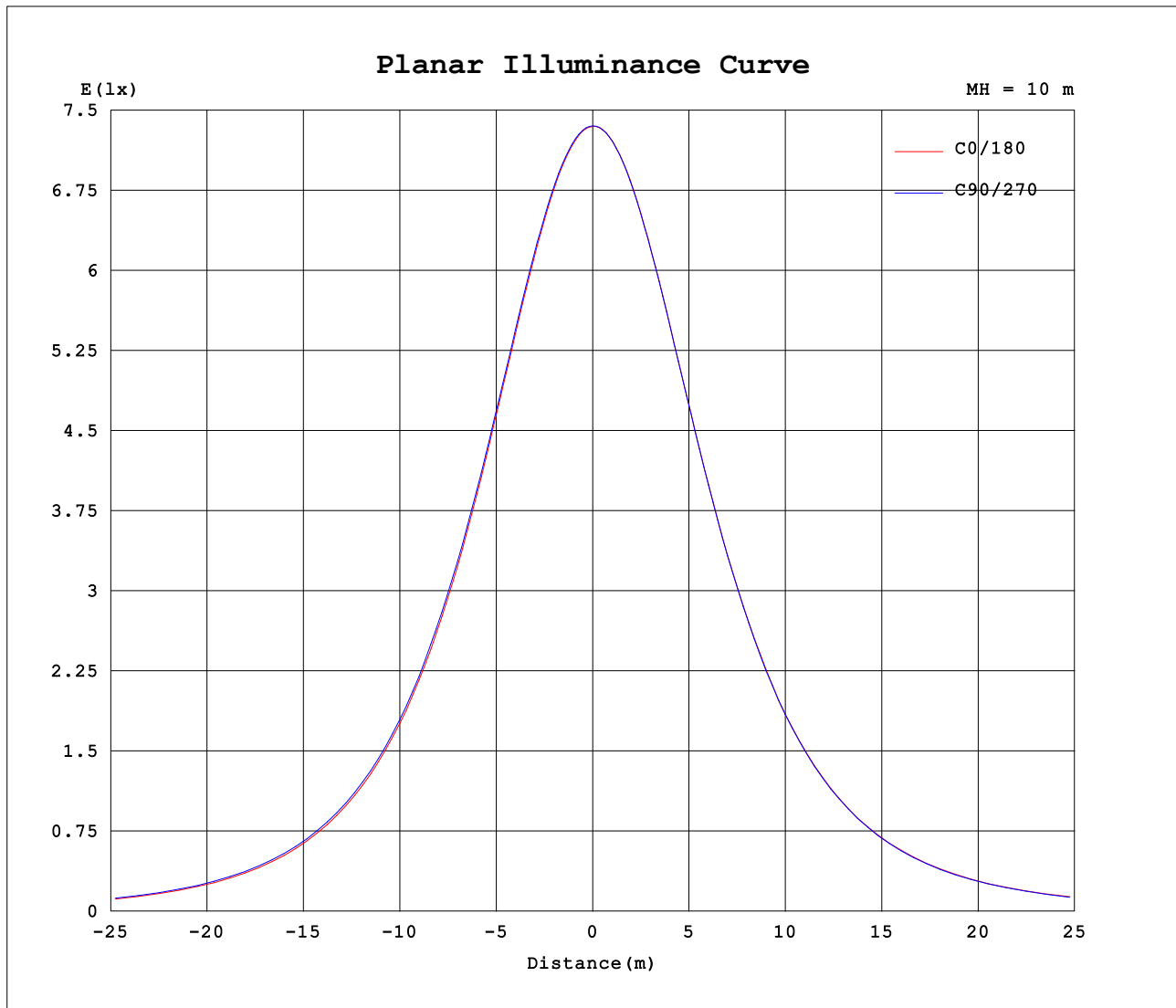
Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7125]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.4730A P:11.300W PF:1.0000 Freq:0Hz		
Lamp Flux:2210.25x1 lm		
Name: S010180BC1LZ		
MFR.:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	735	735	735	735	735	735	735	735	735	735	735	735						
5	731	731	732	732	733	733	733	733	733	733	733	732						
10	721	722	722	723	724	725	726	726	726	725	724	723						
15	705	706	707	709	710	712	713	713	713	712	711	708						
20	685	686	687	689	691	693	694	695	695	694	692	689						
25	659	660	662	664	666	669	671	672	671	670	668	664						
30	626	628	630	633	636	639	641	642	642	641	638	633						
35	589	591	594	597	601	604	607	608	608	606	602	596						
40	546	549	553	556	561	565	568	570	569	567	562	555						
45	498	501	504	508	513	518	521	523	524	521	516	508						
50	446	449	452	457	463	469	474	475	475	472	466	457						
55	389	392	396	401	407	414	419	420	420	417	410	401						
60	328	331	335	340	347	355	361	362	361	357	351	341						
65	263	267	271	276	285	292	299	300	299	294	287	276						
70	195	199	204	210	219	227	234	235	232	227	219	209						
75	128	131	136	142	152	161	168	169	165	159	152	141						
80	66.6	69.4	73.6	79.1	88.5	97.5	104	104	101	94.6	87.3	78.0						
85	21.5	22.3	24.6	28.5	36.1	43.6	49.4	48.6	45.3	40.1	35.0	28.7						
90	2.51	1.10	0.77	1.52	4.50	7.70	10.2	9.35	7.53	5.35	4.17	3.23						
95	1.94	1.52	1.40	1.57	2.32	3.17	3.90	3.92	3.71	3.32	2.95	2.49						
100	1.62	1.41	1.41	1.64	2.31	3.03	3.64	3.72	3.56	3.24	2.83	2.29						
105	1.49	1.35	1.38	1.59	2.15	2.75	3.28	3.42	3.38	3.16	2.78	2.22						
110	1.47	1.34	1.38	1.59	2.12	2.70	3.21	3.36	3.33	3.12	2.74	2.19						
115	1.47	1.36	1.40	1.61	2.13	2.69	3.19	3.34	3.31	3.10	2.73	2.19						
120	1.53	1.42	1.46	1.66	2.17	2.72	3.21	3.36	3.34	3.14	2.78	2.24						
125	1.61	1.51	1.56	1.75	2.24	2.76	3.22	3.38	3.37	3.18	2.83	2.31						
130	1.69	1.57	1.60	1.78	2.25	2.77	3.23	3.39	3.38	3.21	2.87	2.36						
135	1.74	1.64	1.68	1.86	2.30	2.78	3.22	3.38	3.38	3.23	2.90	2.40						
140	1.78	1.65	1.67	1.84	2.28	2.76	3.20	3.37	3.38	3.24	2.92	2.43						
145	1.83	1.72	1.74	1.90	2.30	2.75	3.16	3.33	3.35	3.23	2.92	2.46						
150	1.92	1.80	1.80	1.94	2.31	2.72	3.10	3.27	3.31	3.21	2.93	2.50						
155	2.04	1.94	1.95	2.07	2.38	2.73	3.05	3.20	3.24	3.16	2.92	2.55						
160	2.17	2.11	2.12	2.22	2.46	2.73	2.98	3.12	3.16	3.11	2.91	2.60						
165	2.31	2.28	2.30	2.37	2.54	2.73	2.91	3.02	3.08	3.05	2.90	2.65						
170	2.43	2.43	2.46	2.52	2.62	2.73	2.83	2.93	2.98	2.98	2.87	2.69						
175	2.53	2.57	2.61	2.64	2.67	2.70	2.74	2.81	2.87	2.89	2.83	2.71						
180	2.64	2.71	2.75	2.77	2.72	2.67	2.64	2.69	2.74	2.79	2.78	2.73						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

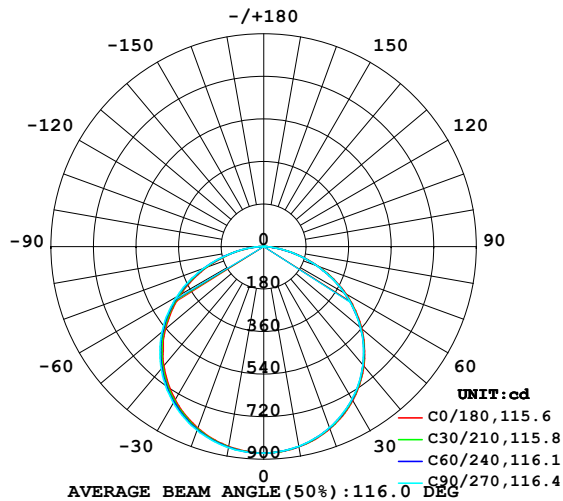
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

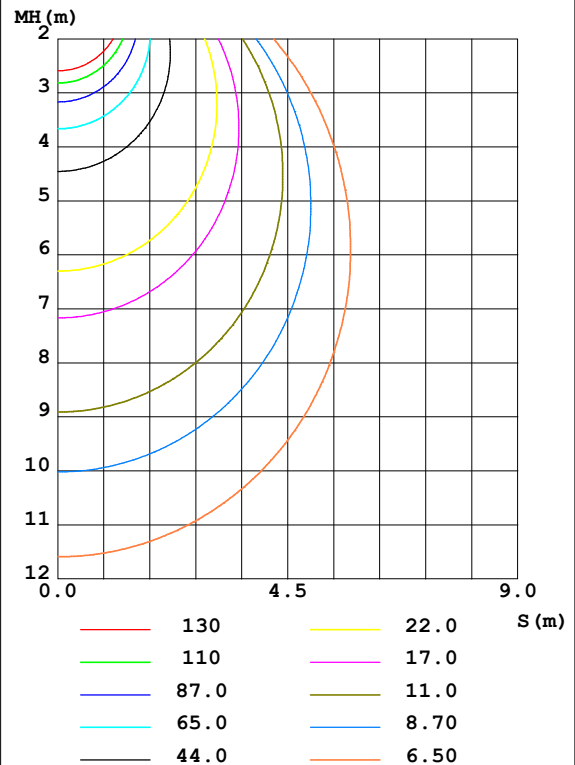
Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 176.09 lm/W			
MODEL		I _{max} (cd)	874.1	S/MH (C0/180)	1.28
NOMINAL POWER (W)	14.8	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	2606.1	η UP, DN (C0-180)	0.3, 48.7
NOMINAL FLUX (lm)	2606.1	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 50.6
LAMPS INSIDE	1	η up (%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	24	η down (%)	99.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity: 65.0%
Test Distance: 8.000m [K=0.7125]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	860.2	858.5	857.6	857.7	858.6	861.3	863.6	862.9	0- 10	82.74	82.74	3.17,3.17
20	820.3	816.7	814.8	815.1	817.0	822.4	826.8	825.4	10- 20	238.1	320.8	12.3,12.3
30	753.0	748.6	746.3	746.5	749.0	757.5	764.3	761.6	20- 30	364.1	685.0	26.3,26.3
40	659.6	655.1	653.2	654.6	658.6	668.2	675.5	671.2	30- 40	444.6	1130	43.3,43.3
50	541.3	535.7	534.0	537.3	543.6	554.7	562.4	556.2	40- 50	468.0	1598	61.3,61.3
60	402.9	396.5	394.6	399.0	406.4	418.3	426.3	419.4	50- 60	427.9	2025	77.7,77.7
70	247.3	241.3	240.3	246.6	255.5	265.7	271.6	263.9	60- 70	328.6	2354	90.3,90.3
80	91.72	87.89	88.81	97.47	107.2	112.9	114.0	106.1	70- 80	185.0	2539	97.4,97.4
90	4.457	2.073	1.802	5.190	8.658	8.194	6.718	5.623	80- 90	47.99	2587	99.3,99.3
100	1.952	1.477	1.681	3.091	4.464	4.428	3.870	3.058	90-100	3.695	2591	99.4,99.4
110	1.718	1.460	1.690	2.781	3.861	4.028	3.731	2.934	100-110	3.017	2594	99.5,99.5
120	1.845	1.605	1.822	2.841	3.853	4.028	3.765	3.008	110-120	2.783	2597	99.6,99.6
130	2.040	1.792	1.975	2.910	3.849	4.046	3.834	3.135	120-130	2.608	2599	99.7,99.7
140	2.154	1.937	2.107	2.948	3.802	4.021	3.863	3.205	130-140	2.313	2602	99.8,99.8
150	2.312	2.160	2.313	2.994	3.689	3.913	3.817	3.246	140-150	1.908	2603	99.9,99.9
160	2.590	2.534	2.656	3.086	3.529	3.731	3.711	3.295	150-160	1.435	2605	100,100
170	2.889	2.934	3.023	3.185	3.354	3.510	3.556	3.319	160-170	0.9036	2606	100,100
180	3.164	3.265	3.317	3.289	3.252	3.293	3.324	3.270	170-180	0.3088	2606	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1364.4 lm

%lum = 52.4%

%lamp = 52.4%

Conical surface Flux(120deg): 2025.5 lm

%lum = 77.7%

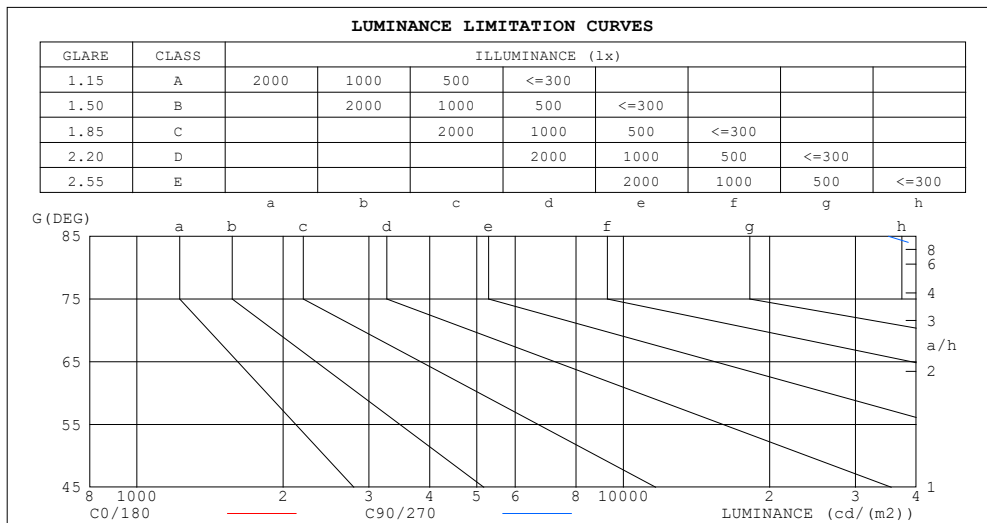
%lamp = 77.7%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	36023	35089
80	52817	51142
75	64194	62248
70	72312	70261
65	77386	75531
60	80586	78926
55	82672	81404
50	84209	83071
45	85220	84448

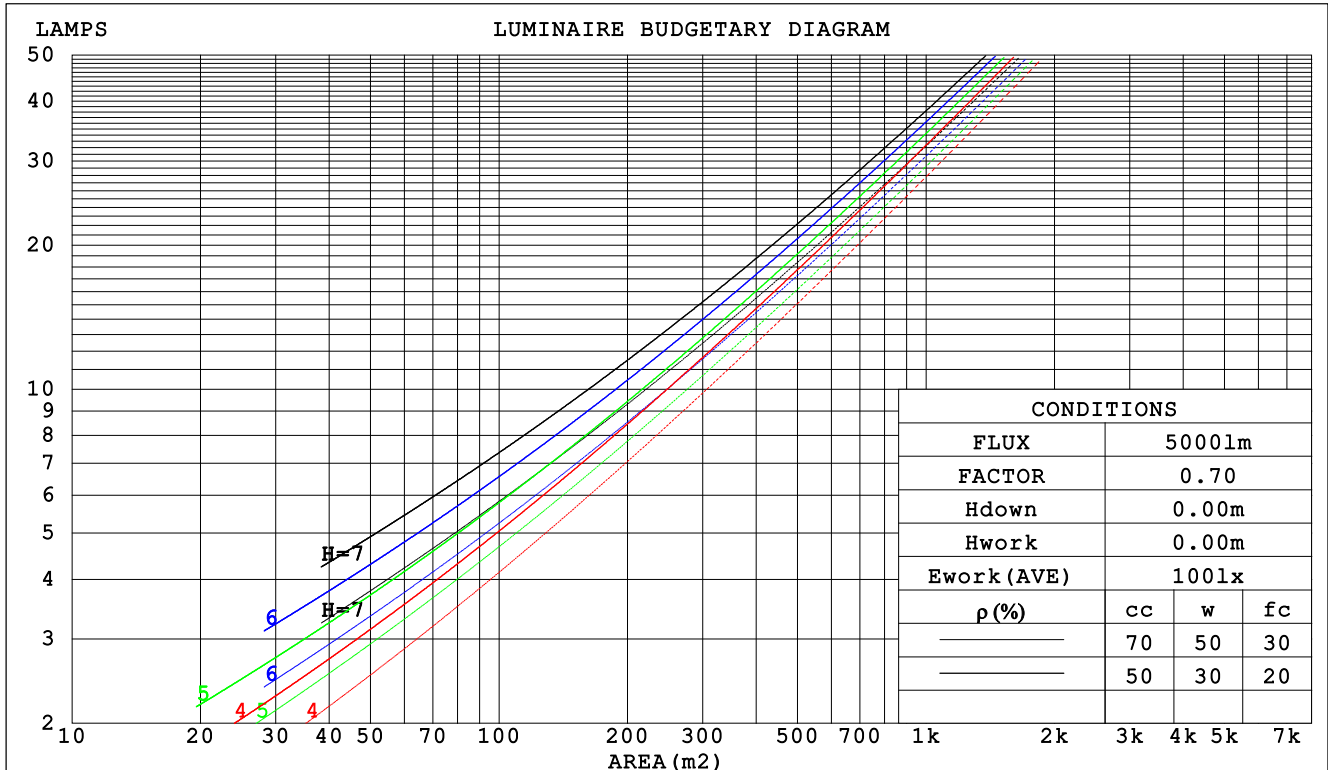
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

WEC AND CCEC

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz											
Lamp Flux:2606.1x1 lm											
Name: S010224BC1LZ											
MFR.:											

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.312	.177	.056	.304	.174	.055	.291	.167	.053	.278	.160	.051	.266	.154	.050	
2.0	.294	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.143	.045	
3.0	.272	.145	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.111	.033	.203	.109	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.162	.140	.159	.139	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.138	.103	.153	.118	.089	.105	.082	.062	.060	.048	.037	.019	.015	.012	
3.0	.170	.120	.080	.146	.103	.069	.100	.072	.048	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.092	.055	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.096	.053	.134	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.045	.128	.076	.039	.088	.053	.028	.051	.031	.016	.016	.010	.005	
7.0	.142	.081	.039	.122	.070	.034	.084	.049	.024	.049	.029	.014	.016	.010	.005	
8.0	.135	.075	.034	.116	.065	.030	.080	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.070	.031	.111	.061	.027	.077	.043	.019	.045	.025	.011	.015	.008	.004	
10.0	.123	.066	.028	.106	.057	.025	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz Lamp Flux:2606.1x1 lm										
Name: S010224BC1LZ										
MFR.:										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	28.2	29.7	28.4	29.9	30.1	28.1	29.6	28.4	29.8	30.1
3H	29.7	31.1	30.0	31.3	31.6	29.6	31.0	29.9	31.2	31.5
4H	30.2	31.5	30.5	31.8	32.1	30.1	31.4	30.4	31.7	32.0
6H	30.5	31.8	30.9	32.1	32.4	30.4	31.7	30.8	32.0	32.3
8H	30.6	31.8	31.0	32.1	32.5	30.5	31.7	30.9	32.0	32.3
12H	30.7	31.8	31.0	32.1	32.5	30.5	31.7	30.9	32.0	32.3
4H 2H	28.8	30.1	29.1	30.4	30.6	28.7	30.0	29.0	30.3	30.6
3H	30.4	31.6	30.8	31.9	32.2	30.3	31.5	30.7	31.8	32.1
4H	31.1	32.1	31.5	32.5	32.8	31.0	32.0	31.4	32.4	32.7
6H	31.5	32.5	31.9	32.8	33.2	31.4	32.4	31.8	32.7	33.1
8H	31.6	32.5	32.1	32.9	33.3	31.5	32.4	32.0	32.8	33.2
12H	31.7	32.5	32.1	32.9	33.3	31.6	32.4	32.0	32.8	33.2
8H 4H	31.3	32.2	31.7	32.6	33.0	31.2	32.1	31.6	32.5	32.9
6H	31.9	32.6	32.3	33.0	33.5	31.8	32.5	32.2	32.9	33.4
8H	32.0	32.7	32.5	33.1	33.6	31.9	32.6	32.4	33.0	33.5
12H	32.1	32.7	32.6	33.2	33.7	32.0	32.6	32.5	33.1	33.5
12H 4H	31.3	32.1	31.7	32.5	32.9	31.2	32.0	31.6	32.4	32.8
6H	31.9	32.5	32.4	33.0	33.4	31.8	32.4	32.3	32.9	33.3
8H	32.1	32.7	32.6	33.1	33.6	32.0	32.6	32.5	33.0	33.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2606 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.3$)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		

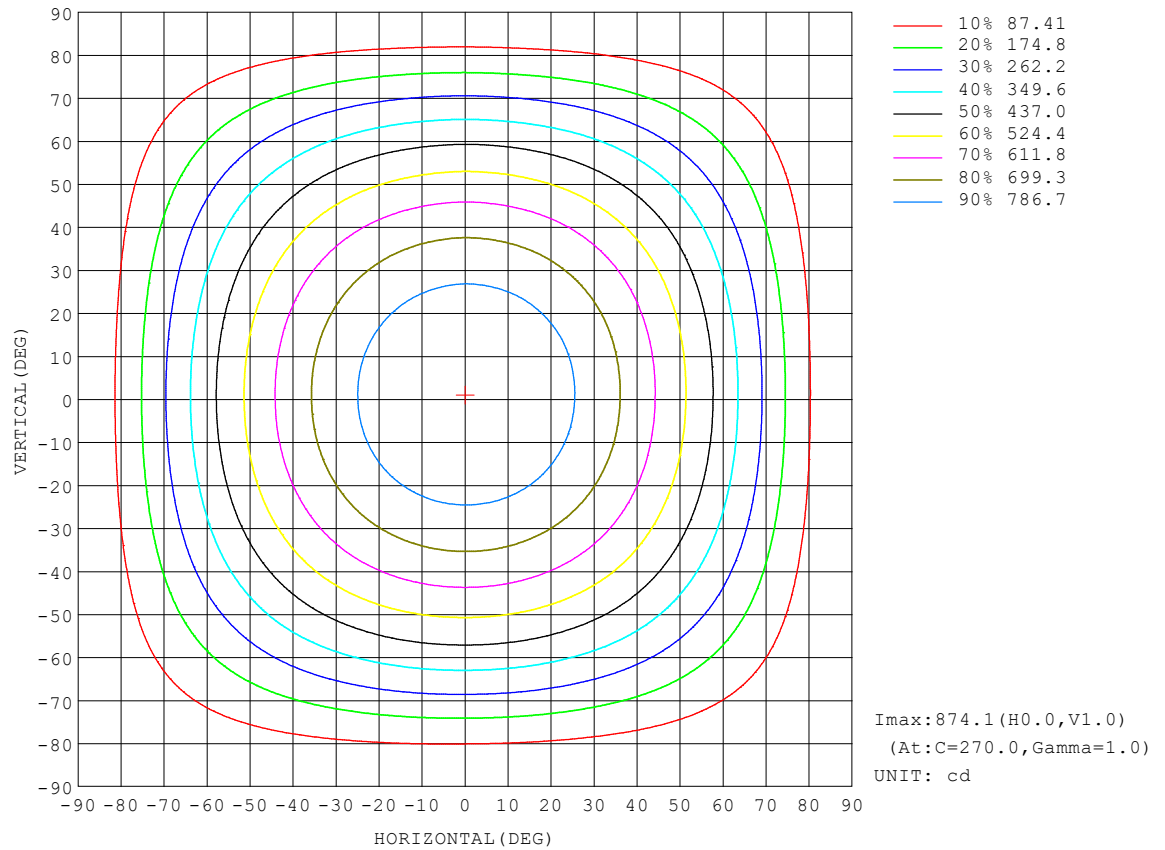
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		

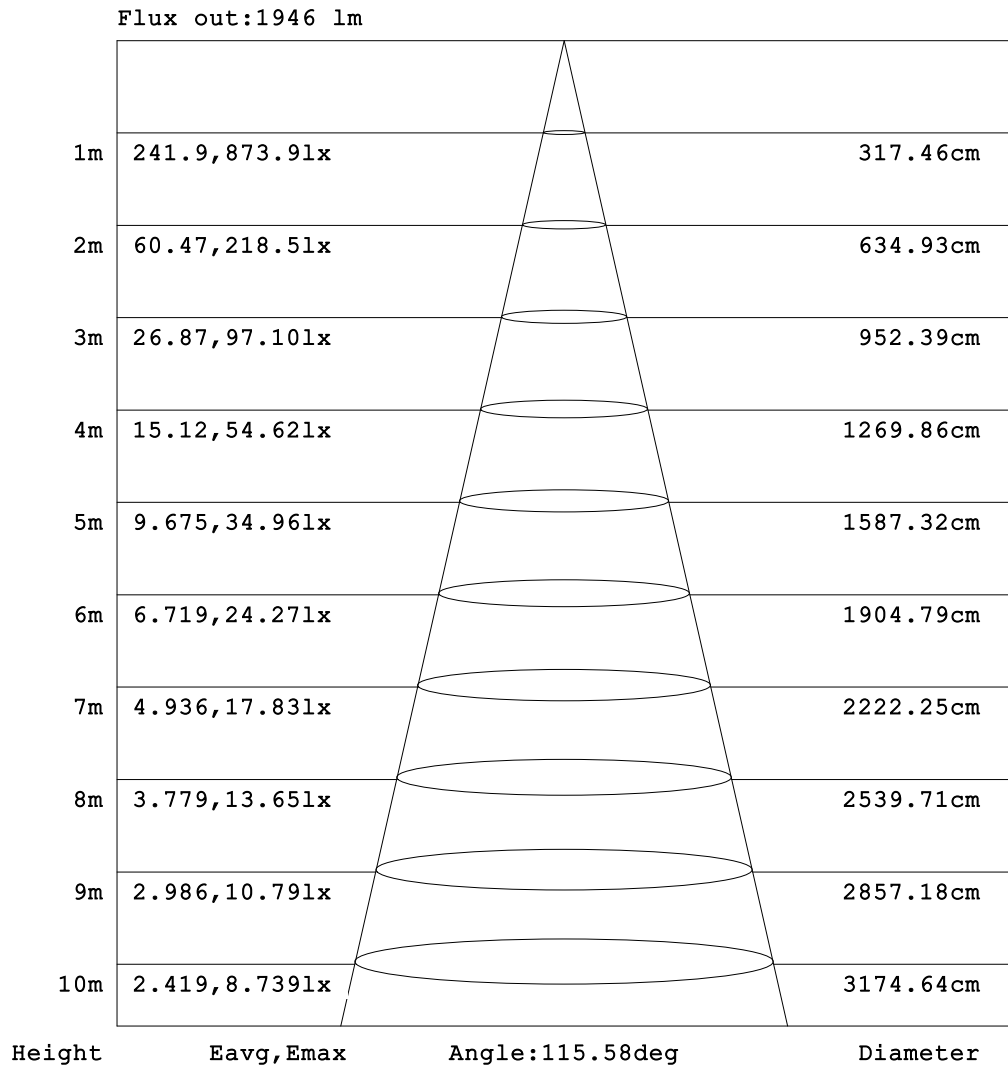


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

AAI Figure

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		



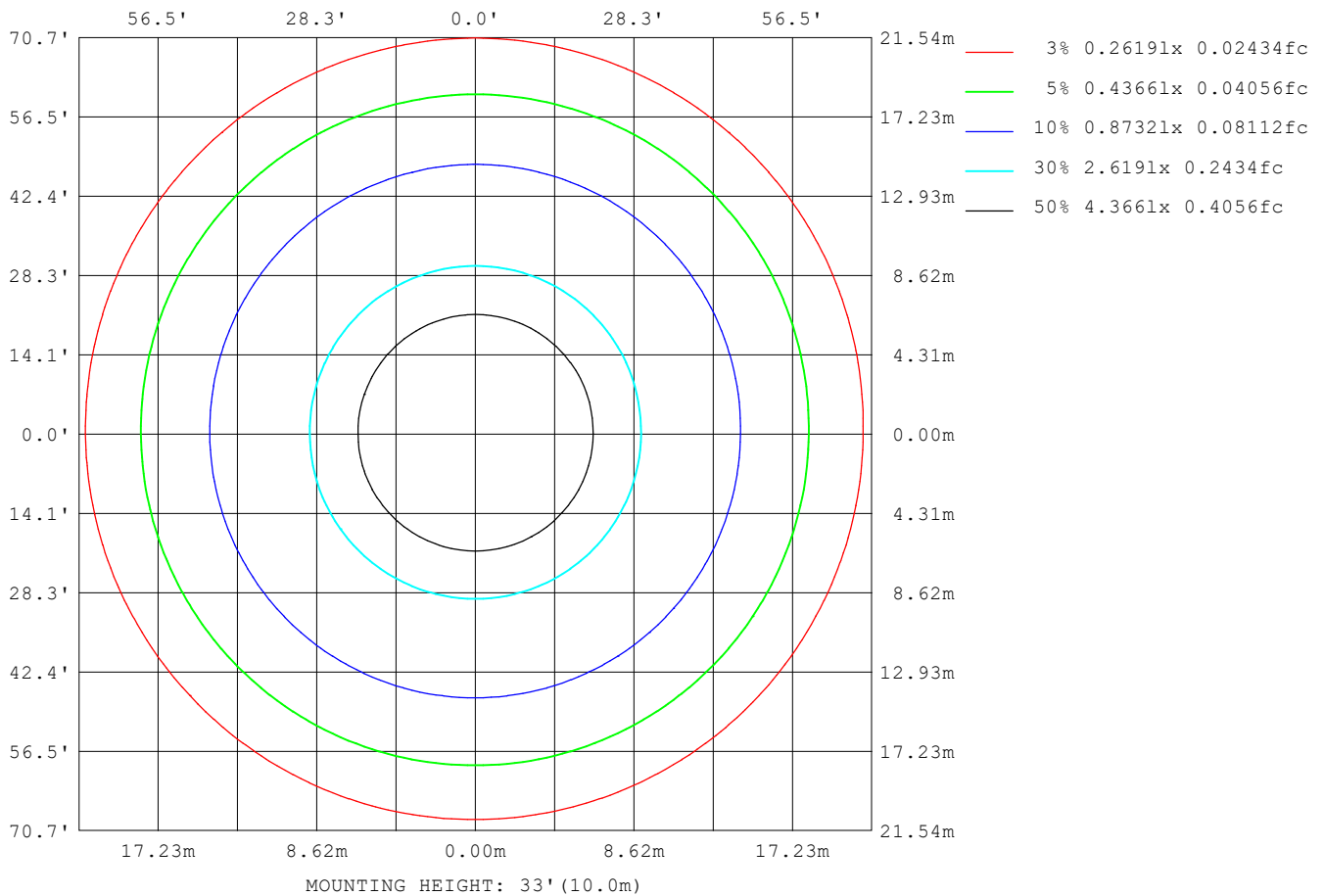
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

ISOLUX DIAGRAM

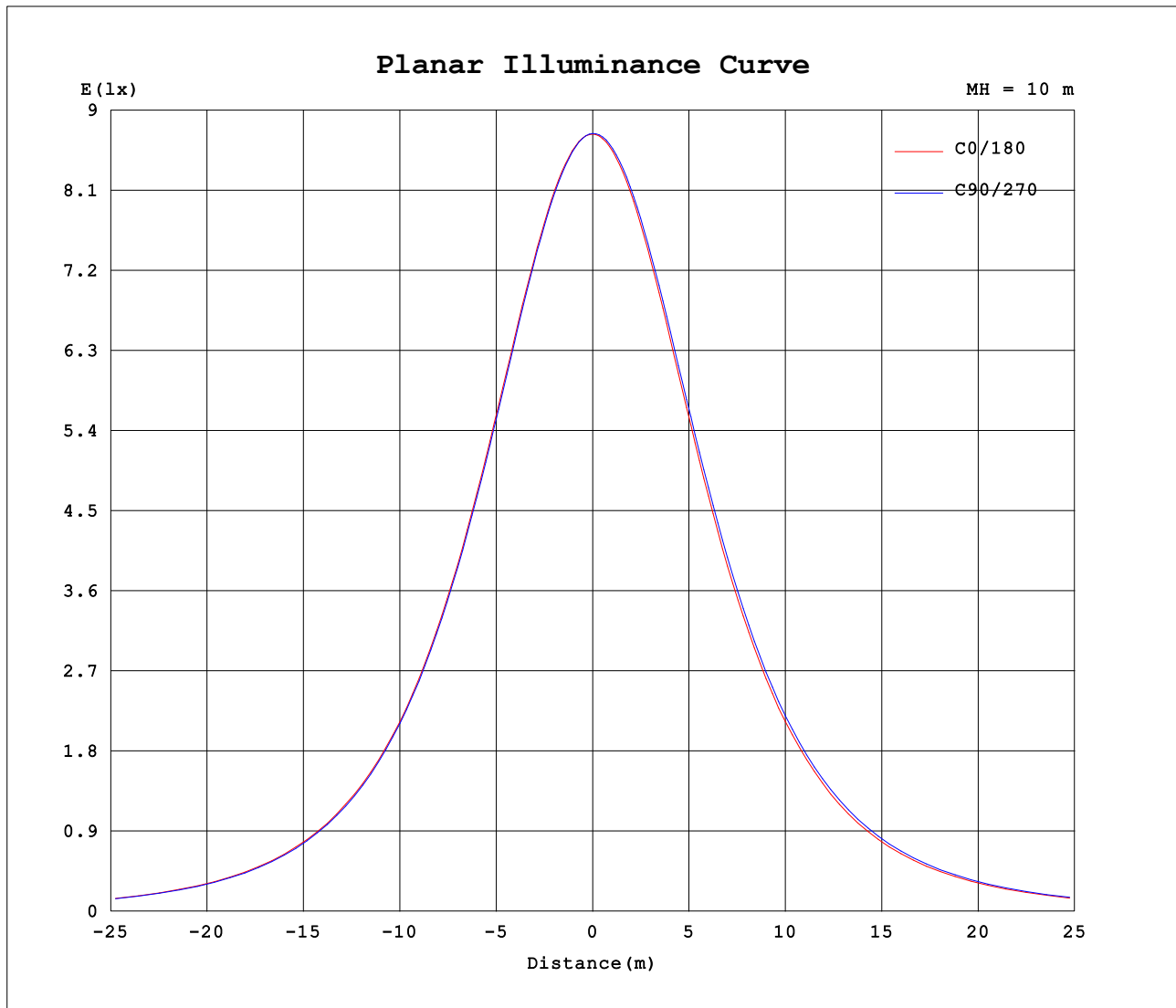
Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz		
Lamp Flux:2606.1x1 lm		
Name: S010224BC1LZ		
MFR.:		



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7125]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-01-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7125]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.000V I:0.6200A P:14.800W PF:1.0000 Freq:0Hz																	
Lamp Flux:2606.1x1 lm																	
Name: S010224BC1LZ																	
MFR.:																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	873	874	874	874	874	873	873	873	874	874	874	874						
5	870	870	869	869	869	869	869	870	871	872	872	871						
10	860	859	858	858	857	858	859	860	862	864	863	862						
15	844	842	840	840	839	840	841	844	846	848	848	847						
20	820	818	816	815	815	815	817	821	824	827	826	824						
25	790	787	785	784	783	784	786	791	795	798	798	795						
30	753	750	747	746	746	747	749	755	760	764	763	760						
35	709	706	704	703	703	704	706	712	719	723	722	717						
40	660	656	654	653	654	656	659	665	671	675	674	669						
45	603	600	598	597	598	600	603	610	617	622	620	613						
50	541	537	535	534	536	539	544	551	558	562	560	553						
55	474	470	468	467	468	472	476	485	492	497	494	487						
60	403	398	395	395	397	401	406	415	422	426	423	415						
65	327	322	319	319	322	327	333	341	347	351	347	339						
70	247	243	240	240	244	249	256	263	269	272	268	260						
75	166	162	160	161	166	172	178	184	189	190	186	178						
80	91.7	88.4	87.4	88.8	94.2	101	107	112	114	114	110	102						
85	31.4	29.4	29.2	30.6	34.9	40.0	44.9	48.1	49.6	49.2	45.7	39.8						
90	4.46	2.52	1.63	1.80	3.93	6.45	8.66	8.57	7.82	6.72	6.00	5.25						
95	2.32	1.72	1.53	1.74	2.73	3.84	4.79	4.80	4.48	3.97	3.51	2.96						
100	1.95	1.52	1.43	1.68	2.59	3.59	4.46	4.54	4.32	3.87	3.38	2.74						
105	1.75	1.46	1.44	1.67	2.41	3.23	3.95	4.14	4.08	3.79	3.31	2.64						
110	1.72	1.46	1.45	1.69	2.39	3.17	3.86	4.05	4.00	3.73	3.27	2.60						
115	1.76	1.51	1.51	1.73	2.41	3.17	3.84	4.02	3.98	3.72	3.27	2.61						
120	1.84	1.61	1.60	1.82	2.48	3.21	3.85	4.04	4.01	3.76	3.33	2.69						
125	1.94	1.70	1.69	1.90	2.53	3.23	3.86	4.06	4.04	3.81	3.39	2.76						
130	2.04	1.80	1.78	1.98	2.57	3.25	3.85	4.05	4.04	3.83	3.43	2.84						
135	2.11	1.88	1.86	2.04	2.61	3.25	3.83	4.04	4.04	3.85	3.47	2.89						
140	2.15	1.94	1.93	2.11	2.64	3.25	3.80	4.01	4.03	3.86	3.49	2.92						
145	2.22	2.04	2.03	2.20	2.69	3.25	3.75	3.96	4.00	3.85	3.50	2.96						
150	2.31	2.16	2.16	2.31	2.75	3.24	3.69	3.89	3.94	3.82	3.50	3.00						
155	2.44	2.33	2.34	2.47	2.83	3.24	3.61	3.80	3.86	3.77	3.49	3.05						
160	2.59	2.52	2.54	2.66	2.93	3.24	3.53	3.70	3.76	3.71	3.48	3.11						
165	2.75	2.73	2.76	2.85	3.03	3.24	3.44	3.58	3.66	3.64	3.47	3.17						
170	2.89	2.91	2.96	3.02	3.13	3.24	3.35	3.47	3.55	3.56	3.43	3.21						
175	3.02	3.08	3.13	3.17	3.19	3.21	3.24	3.33	3.41	3.44	3.37	3.23						
180	3.16	3.24	3.29	3.32	3.30	3.28	3.25	3.28	3.31	3.32	3.30	3.24						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks: