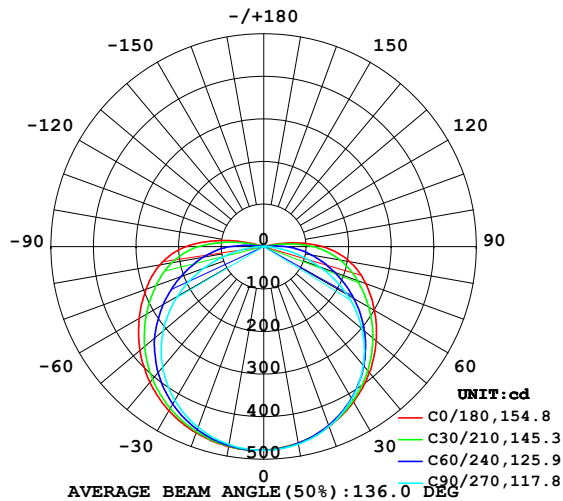


LUMINAIRE PHOTOMETRIC TEST REPORT

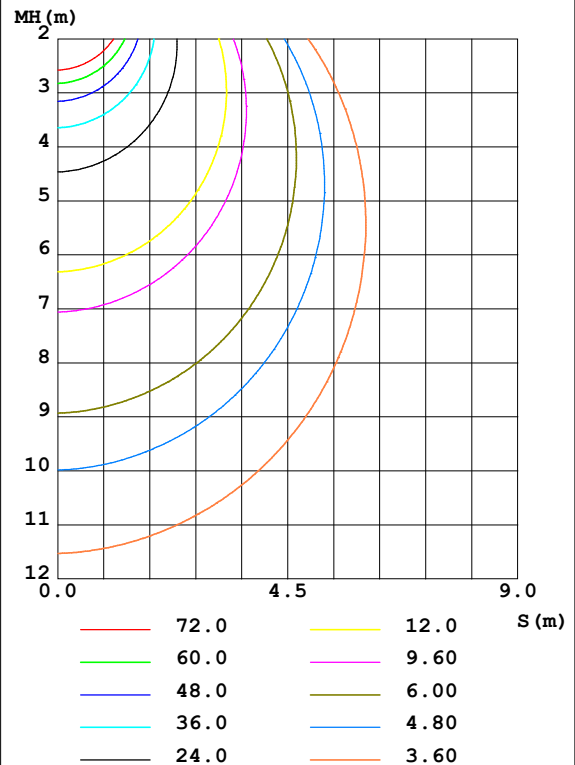
Test:U:24.000V I:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.50 lm/W			
MODEL		I _{max} (cd)	480.2	S/MH (C0/180)	1.40
NOMINAL POWER (W)	17.3	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	1859.8	η UP, DN (C0-180)	1.9, 46.8
NOMINAL FLUX (lm)	1859.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.6, 48.7
LAMPS INSIDE	1	η up (%)	4.5	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	24	η down (%)	95.5	CIBSE SHR MAX	1.55

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	468.4	469.2	471.2	475.1	477.2	475.5	472.2	471.4	0- 10	45.42	45.42	2.44,2.44
20	449.8	448.0	449.5	458.5	465.7	460.1	452.0	451.6	10- 20	131.4	176.8	9.51,9.51
30	422.0	415.8	413.9	431.0	445.5	433.6	417.9	420.9	20- 30	203.6	380.4	20.5,20.5
40	386.7	373.5	364.6	393.1	416.6	396.5	369.9	380.2	30- 40	254.6	635.0	34.1,34.1
50	345.2	322.0	301.7	345.6	380.2	350.1	308.5	330.1	40- 50	279.3	914.3	49.2,49.2
60	300.7	264.8	226.1	291.8	338.0	295.8	234.8	273.1	50- 60	275.7	1190	64,64
70	255.9	206.5	140.9	235.9	294.5	238.6	150.7	217.2	60- 70	247.5	1437	77.3,77.3
80	205.0	148.0	55.09	178.6	247.9	182.1	63.49	159.9	70- 80	200.3	1638	88.1,88.1
90	138.9	84.15	1.853	109.3	182.7	116.1	4.354	95.66	80- 90	138.8	1776	95.5,95.5
100	44.79	13.66	1.169	24.60	83.42	31.19	2.410	19.93	90-100	64.23	1841	99,99
110	1.946	1.558	1.137	1.565	5.065	2.879	2.291	3.089	100-110	10.43	1851	99.5,99.5
120	1.486	1.460	1.188	1.495	2.887	2.572	2.280	2.764	110-120	2.113	1853	99.6,99.6
130	1.443	1.467	1.292	1.508	2.633	2.463	2.326	2.538	120-130	1.787	1855	99.7,99.7
140	1.600	1.630	1.409	1.616	2.577	2.500	2.367	2.486	130-140	1.544	1857	99.8,99.8
150	1.768	1.884	1.618	1.803	2.612	2.539	2.400	2.502	140-150	1.316	1858	99.9,99.9
160	1.935	1.985	1.816	1.990	2.586	2.514	2.384	2.508	150-160	1.015	1859	100,100
170	2.109	2.160	2.019	2.157	2.465	2.430	2.327	2.496	160-170	0.6385	1860	100,100
180	2.287	2.304	2.205	2.321	2.296	2.280	2.203	2.430	170-180	0.2197	1860	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 773.26 lm

%lum = 41.6%

%lamp = 41.6%

Conical surface Flux(120deg): 1190 lm

%lum = 64.0%

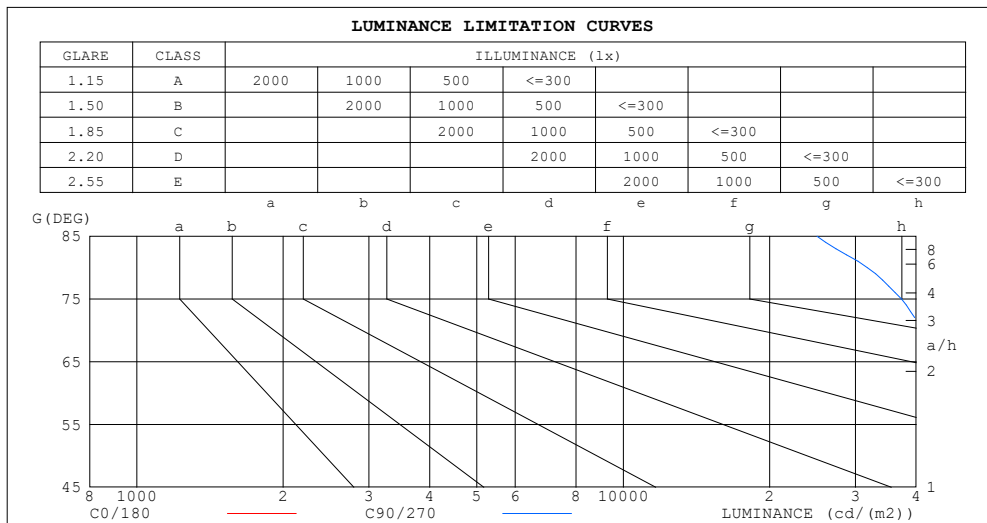
%lamp = 64.0%

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:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
MFR.:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	200266	25026
80	118043	31725
75	89561	37310
70	74822	41206
65	65891	43665
60	60140	45218
55	56371	46277
50	53708	46933
45	51807	47344

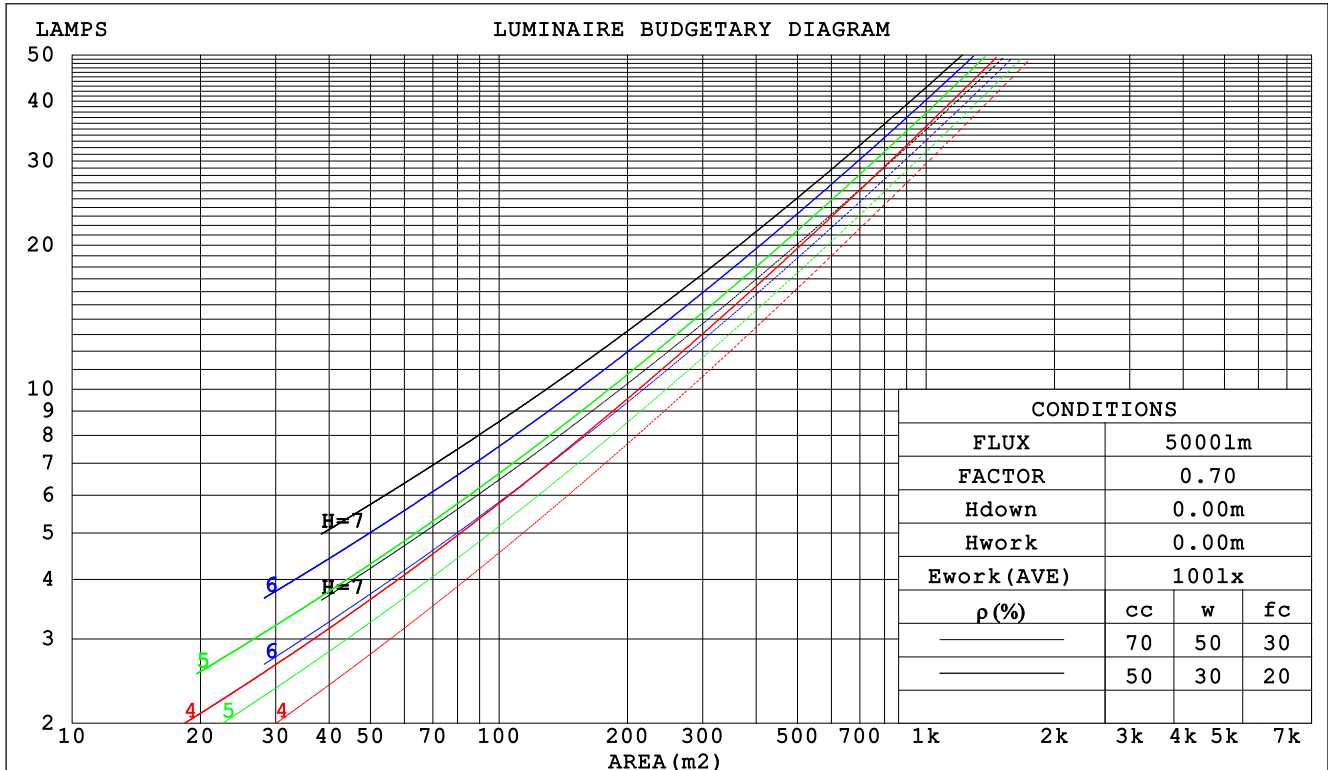
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

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:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1.0	.98	.93	.88	.96	.91	.86	.91	.86	.83	.86	.82	.79	.81	.79	.76	.73
2.0	.84	.76	.69	.82	.74	.68	.77	.71	.66	.73	.68	.64	.70	.65	.61	.59
3.0	.73	.64	.56	.71	.62	.55	.67	.60	.54	.64	.57	.52	.60	.55	.51	.48
4.0	.64	.54	.47	.62	.53	.46	.59	.51	.45	.56	.49	.44	.53	.48	.43	.40
5.0	.57	.47	.40	.55	.46	.39	.53	.45	.38	.50	.43	.38	.48	.42	.37	.34
6.0	.51	.41	.34	.50	.41	.34	.47	.39	.33	.45	.38	.33	.43	.37	.32	.30
7.0	.46	.37	.30	.45	.36	.30	.43	.35	.29	.41	.34	.29	.39	.33	.28	.26
8.0	.42	.33	.27	.41	.32	.26	.39	.31	.26	.38	.31	.26	.36	.30	.25	.23
9.0	.38	.30	.24	.37	.29	.24	.36	.28	.23	.35	.28	.23	.33	.27	.23	.21
10.0	.35	.27	.21	.35	.27	.21	.33	.26	.21	.32	.25	.21	.31	.25	.20	.19



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:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
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	.392	.223	.071	.384	.219	.070	.367	.211	.067	.353	.203	.065	.339	.196	.063		
2.0	.342	.187	.057	.334	.184	.057	.320	.178	.055	.306	.172	.054	.294	.166	.052		
3.0	.304	.162	.049	.297	.159	.048	.284	.154	.047	.273	.149	.046	.261	.145	.045		
4.0	.274	.142	.042	.268	.140	.041	.256	.136	.041	.246	.132	.040	.236	.128	.039		
5.0	.249	.127	.037	.244	.125	.036	.233	.121	.036	.224	.118	.035	.215	.115	.034		
6.0	.228	.114	.033	.223	.113	.032	.214	.110	.032	.205	.107	.031	.197	.104	.031		
7.0	.210	.104	.029	.206	.103	.029	.197	.100	.029	.190	.097	.028	.182	.095	.028		
8.0	.195	.095	.027	.191	.094	.027	.183	.092	.026	.176	.089	.026	.170	.087	.025		
9.0	.182	.088	.025	.178	.087	.024	.171	.085	.024	.165	.083	.024	.159	.081	.023		
10.0	.170	.081	.023	.167	.080	.022	.160	.079	.022	.154	.077	.022	.149	.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	.225	.225	.225	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.220	.190	.162	.189	.163	.140	.129	.112	.097	.074	.065	.056	.024	.021	.018	
2.0	.214	.166	.127	.183	.143	.109	.125	.099	.076	.072	.058	.045	.023	.019	.015	
3.0	.206	.149	.104	.177	.129	.090	.121	.090	.063	.070	.052	.037	.022	.017	.012	
4.0	.198	.137	.090	.170	.118	.078	.117	.082	.055	.068	.048	.032	.022	.016	.011	
5.0	.190	.126	.079	.163	.109	.069	.112	.076	.049	.065	.045	.029	.021	.015	.010	
6.0	.182	.118	.072	.157	.102	.063	.108	.072	.045	.063	.042	.026	.020	.014	.009	
7.0	.175	.111	.067	.151	.097	.058	.104	.068	.041	.060	.040	.025	.020	.013	.008	
8.0	.168	.106	.063	.145	.092	.055	.100	.064	.039	.058	.038	.023	.019	.012	.008	
9.0	.162	.101	.060	.139	.087	.052	.096	.061	.037	.056	.036	.022	.018	.012	.007	
10.0	.156	.097	.057	.134	.084	.050	.093	.059	.035	.054	.035	.021	.018	.011	.007	

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:0.7220A P:17.300W PF:1.0000 Freq:0Hz										
Lamp Flux:1859.78x1 lm										
Name: S010640ZC2PZ-混光										
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	26.7	28.2	27.0	28.5	28.8	25.5	27.1	25.8	27.4	27.7
3H	29.2	30.6	29.5	31.0	31.3	27.1	28.6	27.5	28.9	29.3
4H	30.5	32.0	30.9	32.3	32.7	27.8	29.2	28.2	29.5	29.9
6H	32.0	33.4	32.4	33.7	34.1	28.2	29.6	28.6	29.9	30.3
8H	32.8	34.1	33.2	34.5	34.9	28.4	29.7	28.8	30.0	30.4
12H	33.7	35.0	34.1	35.3	35.8	28.4	29.7	28.9	30.1	30.5
4H 2H	27.3	28.7	27.7	29.0	29.4	26.4	27.8	26.8	28.2	28.5
3H	30.1	31.3	30.5	31.7	32.1	28.3	29.5	28.7	29.9	30.3
4H	31.6	32.8	32.1	33.2	33.6	29.1	30.3	29.6	30.7	31.1
6H	33.3	34.3	33.8	34.8	35.3	29.8	30.8	30.3	31.3	31.7
8H	34.2	35.2	34.7	35.6	36.1	30.0	31.0	30.5	31.4	31.9
12H	35.2	36.1	35.7	36.6	37.1	30.2	31.1	30.7	31.5	32.0
8H 4H	32.0	33.0	32.5	33.4	33.9	30.0	30.9	30.4	31.4	31.9
6H	34.0	34.8	34.5	35.3	35.8	30.9	31.8	31.4	32.2	32.8
8H	35.1	35.8	35.6	36.3	36.9	31.3	32.1	31.9	32.6	33.1
12H	36.4	37.0	36.9	37.5	38.1	31.7	32.3	32.2	32.8	33.4
12H 4H	32.0	32.9	32.5	33.4	33.9	30.2	31.1	30.7	31.6	32.1
6H	34.1	34.8	34.6	35.3	35.9	31.4	32.1	31.9	32.6	33.2
8H	35.3	36.0	35.9	36.5	37.1	31.9	32.6	32.5	33.1	33.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 1860 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.2)
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:

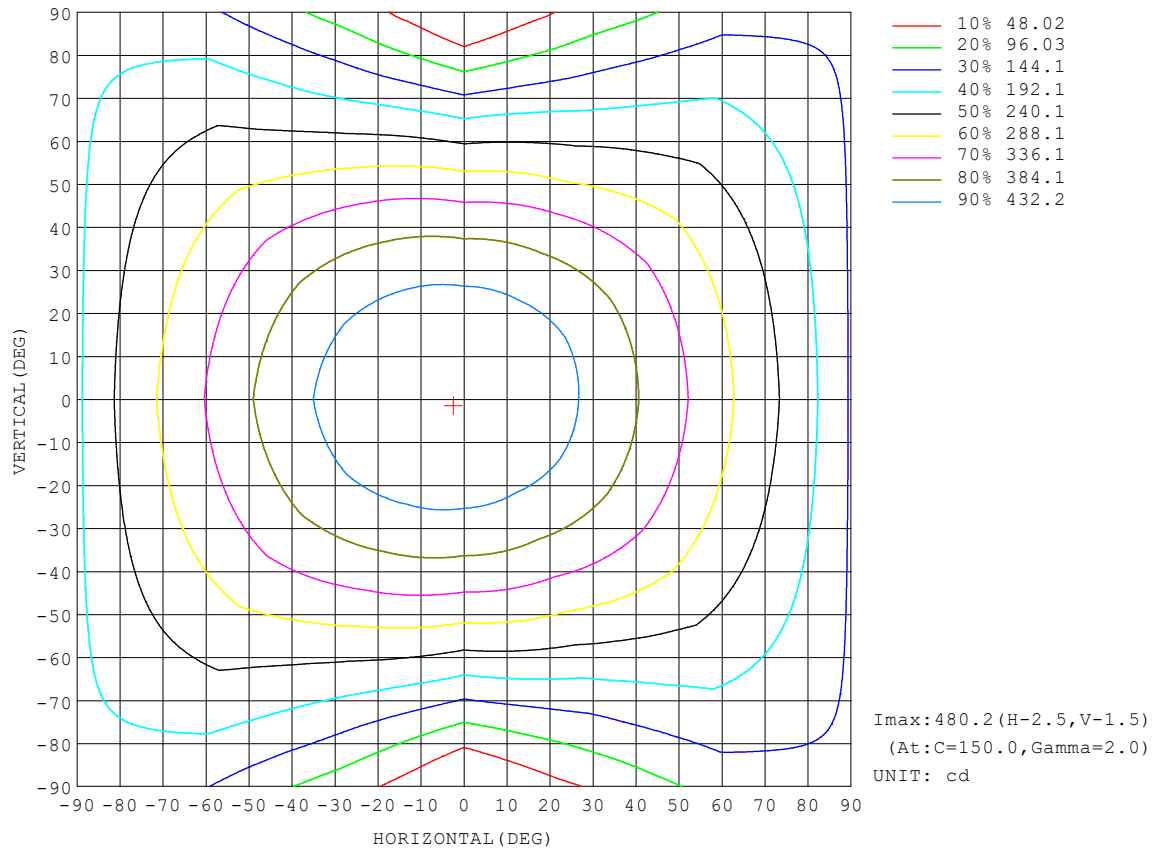
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
Humidity:65.0%
Test Distance:8.000m [K=0.7125]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:24.000V I:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
MFR.:		



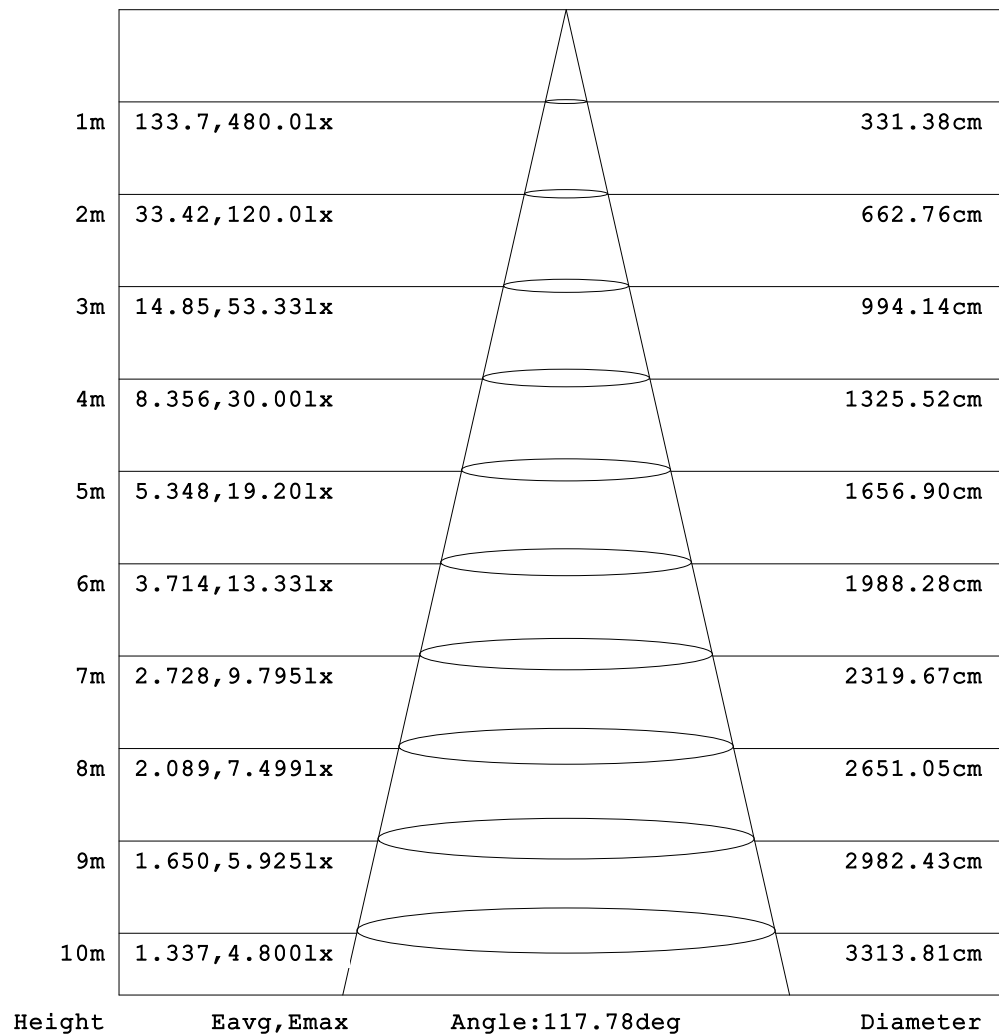
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-01-02

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:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
MFR.:		

Flux out:1163 lm



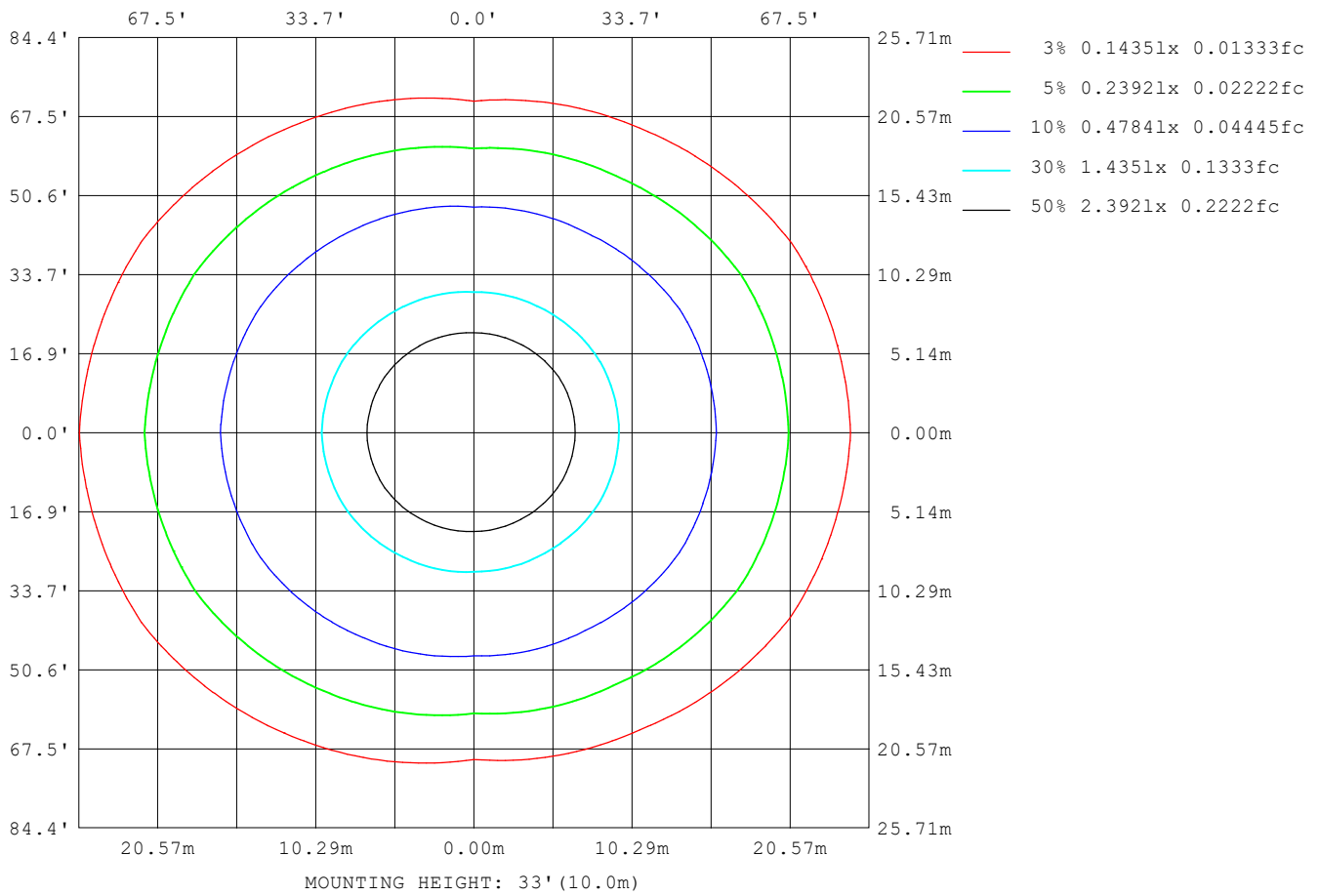
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

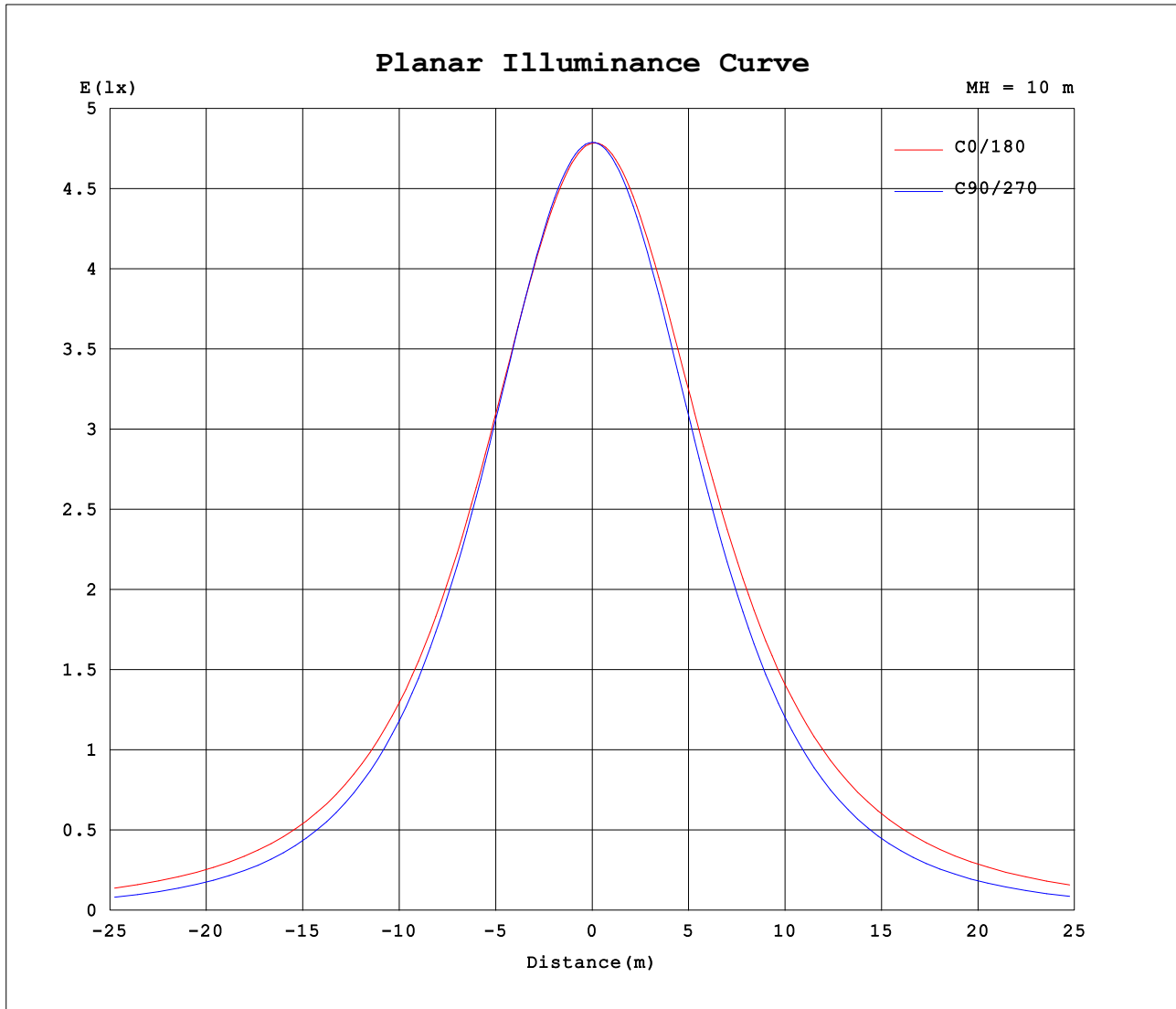
Test:U:24.000V I:0.7220A P:17.300W PF:1.0000 Freq:0Hz		
Lamp Flux:1859.78x1 lm		
Name: S010640ZC2PZ-混光		
MFR.:		



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:0.7220A P:17.300W PF:1.0000 Freq:0Hz																	
Lamp Flux:1859.78x1 lm																	
Name: S010640ZC2PZ-混光																	
MFR.:																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	478	479	479	479	479	480	478	479	479	479	479	480						
5	475	475	476	477	478	480	479	479	479	477	477	477						
10	468	469	469	471	474	477	477	476	475	472	472	471						
15	460	460	460	462	466	471	473	471	468	464	463	463						
20	450	449	447	449	455	462	466	463	458	452	451	452						
25	437	435	431	433	441	451	457	452	444	436	436	439						
30	422	419	412	414	424	438	445	440	428	418	418	424						
35	405	401	391	391	404	423	432	424	409	396	398	406						
40	387	381	366	365	381	405	417	407	386	370	375	386						
45	366	359	338	335	355	385	399	387	361	341	348	364						
50	345	335	309	302	328	363	380	365	335	309	319	341						
55	323	310	277	265	298	340	359	342	305	273	285	317						
60	301	285	245	226	267	317	338	319	273	235	254	292						
65	278	260	211	185	235	293	316	294	240	194	224	267						
70	256	235	178	141	203	268	295	270	207	151	191	243						
75	232	210	145	96.6	172	244	272	246	175	106	159	218						
80	205	182	114	55.1	141	217	248	220	145	63.5	129	190						
85	175	151	82.9	21.8	108	184	219	189	113	27.7	98.6	160						
90	139	116	52.3	1.85	72.4	146	183	153	79.0	4.35	66.1	125						
95	95.1	73.8	15.7	1.25	29.9	97.1	137	107	39.5	2.52	26.7	74.3						
100	44.8	25.4	1.89	1.17	2.18	47.0	83.4	56.3	6.06	2.41	4.39	35.5						
105	9.57	3.57	1.58	1.14	1.42	7.14	33.5	13.5	2.66	2.33	2.96	7.25						
110	1.95	1.57	1.55	1.14	1.39	1.74	5.06	3.20	2.56	2.29	2.88	3.30						
115	1.56	1.44	1.54	1.15	1.37	1.66	3.05	2.85	2.49	2.27	2.81	3.02						
120	1.49	1.40	1.52	1.19	1.35	1.64	2.89	2.72	2.43	2.28	2.66	2.87						
125	1.43	1.37	1.51	1.24	1.36	1.62	2.76	2.60	2.38	2.31	2.55	2.71						
130	1.44	1.39	1.55	1.29	1.40	1.61	2.63	2.53	2.40	2.33	2.46	2.61						
135	1.51	1.47	1.61	1.34	1.45	1.64	2.57	2.53	2.42	2.34	2.43	2.57						
140	1.60	1.58	1.68	1.41	1.52	1.72	2.58	2.55	2.45	2.37	2.41	2.56						
145	1.69	1.77	1.77	1.53	1.62	1.79	2.61	2.58	2.47	2.39	2.42	2.55						
150	1.77	1.95	1.82	1.62	1.73	1.88	2.61	2.59	2.48	2.40	2.44	2.57						
155	1.85	2.06	1.82	1.71	1.83	1.99	2.61	2.59	2.49	2.40	2.44	2.58						
160	1.93	2.14	1.83	1.82	1.92	2.06	2.59	2.56	2.46	2.38	2.42	2.60						
165	2.02	2.23	1.92	1.92	2.01	2.13	2.52	2.53	2.43	2.36	2.40	2.58						
170	2.11	2.30	2.02	2.02	2.10	2.21	2.46	2.48	2.38	2.33	2.36	2.63						
175	2.19	2.43	2.13	2.12	2.19	2.29	2.38	2.41	2.31	2.27	2.30	2.72						
180	2.29	2.38	2.23	2.20	2.27	2.37	2.30	2.31	2.25	2.20	2.25	2.61						

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: