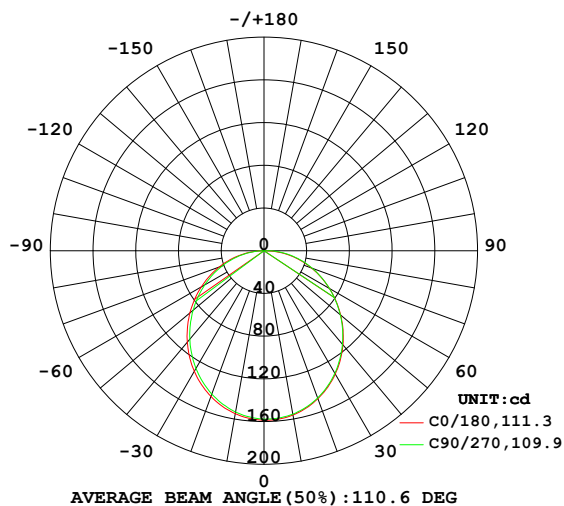


LUMINAIRE PHOTOMETRIC TEST REPORT

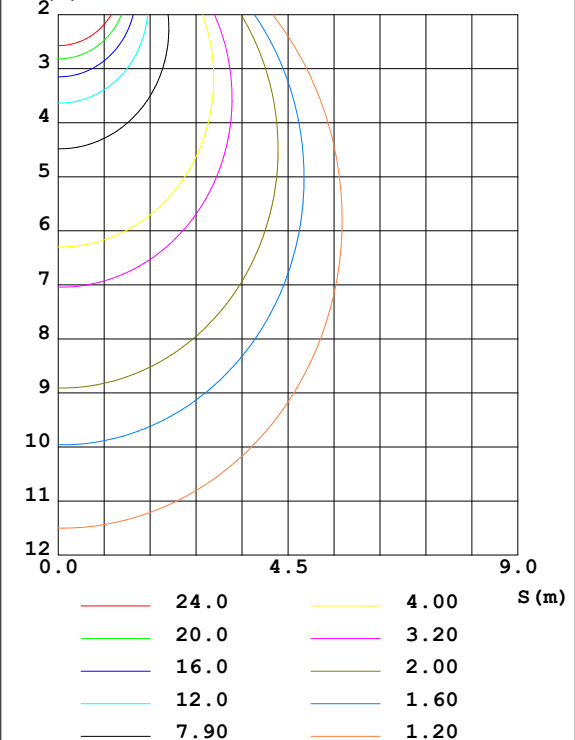
Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 33.11 lm/W			
MODEL		I _{max} (cd)	158.7	S/MH (C0/180)	1.23
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	456.72	η UP, DN (C0-180)	0.4, 51.1
NOMINAL FLUX (lm)	456.658	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 48.1
LAMPS INSIDE	1	η up (%)	0.8	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.2	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JZ
Test Date: 2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 65.0%
Test Distance: 8.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

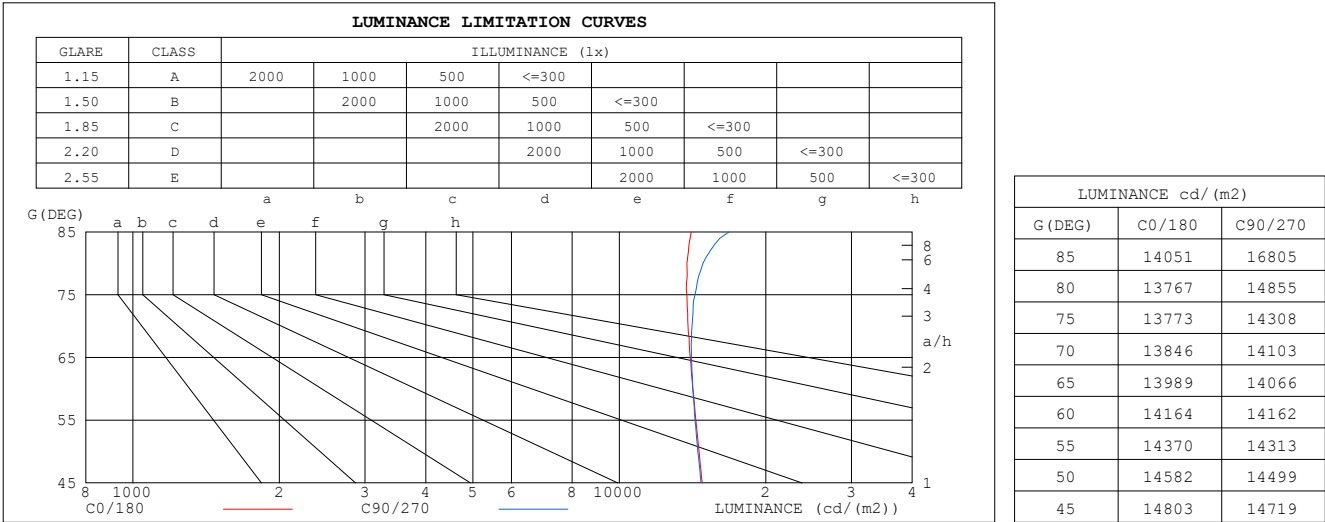
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	156.2	155.4	155.0	153.3					0- 10	14.94	14.94	3.27, 3.27
20	147.6	146.8	145.2	142.9					10- 20	42.59	57.54	12.6, 12.6
30	133.4	132.6	130.4	127.4					20- 30	63.98	121.5	26.6, 26.6
40	115.1	114.3	111.8	108.1					30- 40	76.34	197.8	43.3, 43.3
50	93.73	93.20	90.58	86.58					40- 50	78.64	276.5	60.5, 60.5
60	70.82	70.81	67.90	64.18					50- 60	71.39	347.9	76.2, 76.2
70	47.36	48.24	44.76	41.77					60- 70	56.40	404.3	88.5, 88.5
80	23.91	25.80	21.60	19.27					70- 80	35.97	440.2	96.4, 96.4
90	1.568	4.496	1.132	1.582					80- 90	12.63	452.9	99.2, 99.2
100	0.7642	0.5057	0.8482	0.5297					90-100	1.073	453.9	99.4, 99.4
110	0.6406	0.4483	0.2957	0.4945					100-110	0.5693	454.5	99.5, 99.5
120	0.3978	0.4681	0.4067	0.4994					110-120	0.4438	455.0	99.6, 99.6
130	0.4138	0.5297	0.5026	0.5044					120-130	0.4170	455.4	99.7, 99.7
140	0.5542	0.5875	0.5913	0.5481					130-140	0.4057	455.8	99.8, 99.8
150	0.5912	0.6528	0.6652	0.5687					140-150	0.3751	456.2	99.9, 99.9
160	0.6201	0.7119	0.7234	0.6279					150-160	0.2964	456.5	99.9, 100
170	0.6994	0.7548	0.7635	0.6921					160-170	0.1967	456.7	100, 100
180	0.7636	0.7759	0.7636	0.7513					170-180	0.0713	456.7	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:



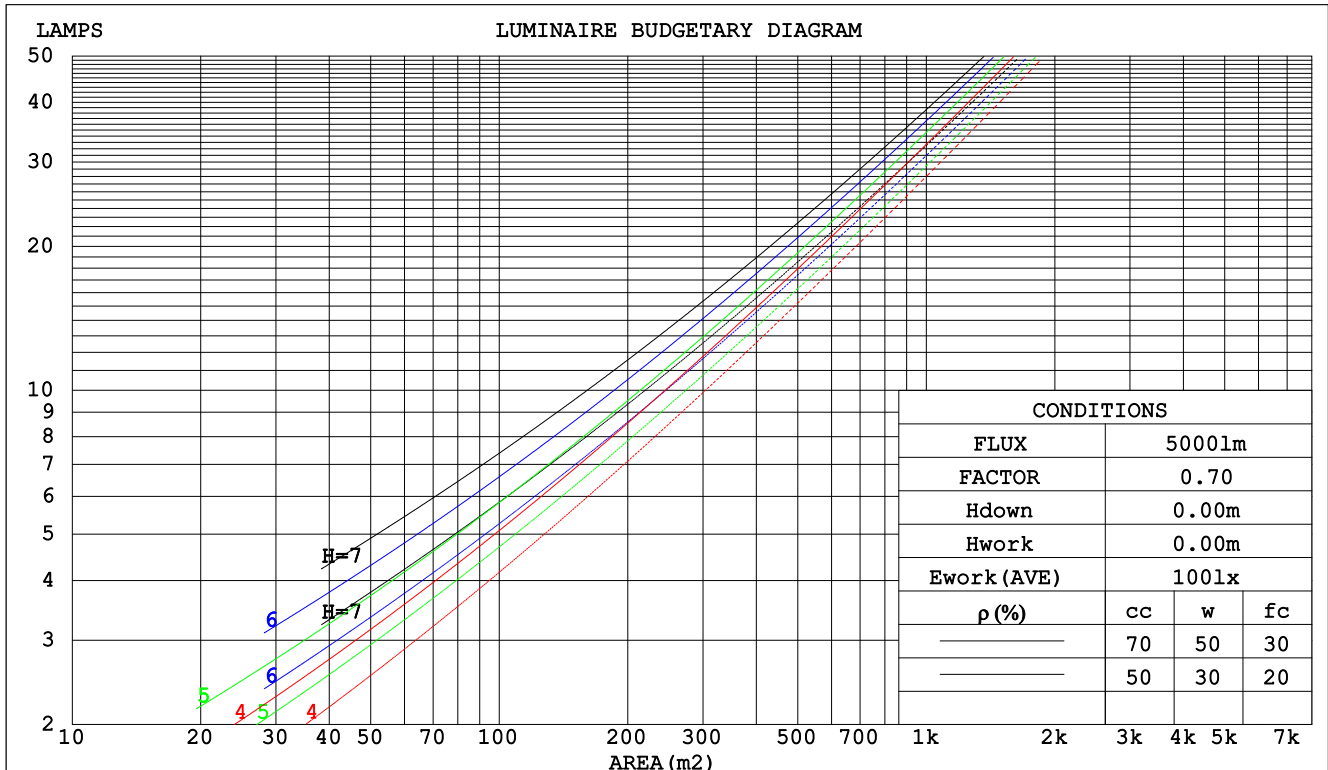
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	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	1.01	1.01	1.01	.99
1.0	1.03	.98	.94	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.74	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.54	.68	.60	.53	.65	.58	.52	.63	.57	.51	.61	.55	.51	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.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	.26	.36	.30	.25	.35	.30	.25	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	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	.323	.184	.058	.316	.180	.057	.302	.173	.055	.289	.167	.054	.278	.161	.052		
2.0	.300	.164	.050	.293	.161	.050	.281	.156	.049	.270	.151	.047	.259	.147	.046		
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.136	.042	.239	.132	.041		
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.233	.119	.034	.228	.117	.034	.220	.114	.034	.212	.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	.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	.075	.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	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.188	.163	.140	.161	.139	.120	.110	.096	.083	.063	.056	.048	.020	.018	.016	
2.0	.180	.138	.104	.154	.119	.090	.106	.082	.062	.061	.048	.037	.020	.016	.012	
3.0	.172	.121	.080	.148	.104	.069	.101	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.164	.108	.064	.141	.093	.056	.097	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.157	.097	.053	.135	.084	.046	.093	.059	.033	.054	.035	.019	.017	.011	.006	
6.0	.149	.089	.046	.128	.077	.040	.089	.054	.028	.051	.032	.017	.017	.010	.006	
7.0	.143	.082	.040	.123	.071	.035	.085	.050	.024	.049	.029	.015	.016	.010	.005	
8.0	.136	.076	.035	.117	.066	.031	.081	.046	.022	.047	.027	.013	.015	.009	.004	
9.0	.130	.071	.032	.112	.062	.028	.078	.044	.020	.045	.026	.012	.015	.008	.004	
10.0	.124	.067	.029	.107	.058	.025	.074	.041	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm											
NAME: PM0600896 NS-156 合					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.: 0.01*1			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	24.9	26.4	25.1	26.6	26.8	24.9	26.4	25.1	26.6	26.8	
	3H	26.6	28.0	26.9	28.2	28.5	26.6	28.0	26.9	28.3	28.5
	4H	27.3	28.7	27.6	28.9	29.2	27.4	28.7	27.7	29.0	29.3
	6H	27.9	29.2	28.3	29.5	29.8	28.1	29.3	28.4	29.6	29.9
	8H	28.2	29.4	28.6	29.7	30.0	28.4	29.6	28.7	29.9	30.2
	12H	28.4	29.6	28.7	29.9	30.2	28.6	29.8	29.0	30.1	30.4
4H	2H	25.5	26.9	25.8	27.1	27.4	25.5	26.9	25.8	27.1	27.4
	3H	27.4	28.6	27.8	28.9	29.2	27.5	28.6	27.8	28.9	29.3
	4H	28.3	29.4	28.7	29.7	30.1	28.4	29.5	28.8	29.8	30.2
	6H	29.1	30.1	29.5	30.4	30.8	29.2	30.2	29.6	30.6	31.0
	8H	29.4	30.3	29.9	30.7	31.1	29.6	30.5	30.0	30.9	31.3
	12H	29.7	30.5	30.1	30.9	31.3	29.9	30.7	30.4	31.1	31.6
8H	4H	28.7	29.6	29.1	30.0	30.4	28.7	29.6	29.2	30.0	30.4
	6H	29.7	30.4	30.1	30.8	31.3	29.8	30.5	30.2	31.0	31.4
	8H	30.1	30.8	30.6	31.2	31.7	30.3	30.9	30.7	31.4	31.8
	12H	30.5	31.0	31.0	31.5	32.0	30.7	31.3	31.2	31.8	32.3
12H	4H	28.7	29.6	29.2	30.0	30.4	28.8	29.6	29.2	30.0	30.4
	6H	29.8	30.4	30.2	30.9	31.4	29.9	30.6	30.4	31.0	31.5
	8H	30.3	30.8	30.8	31.3	31.8	30.4	31.0	30.9	31.5	32.0
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	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

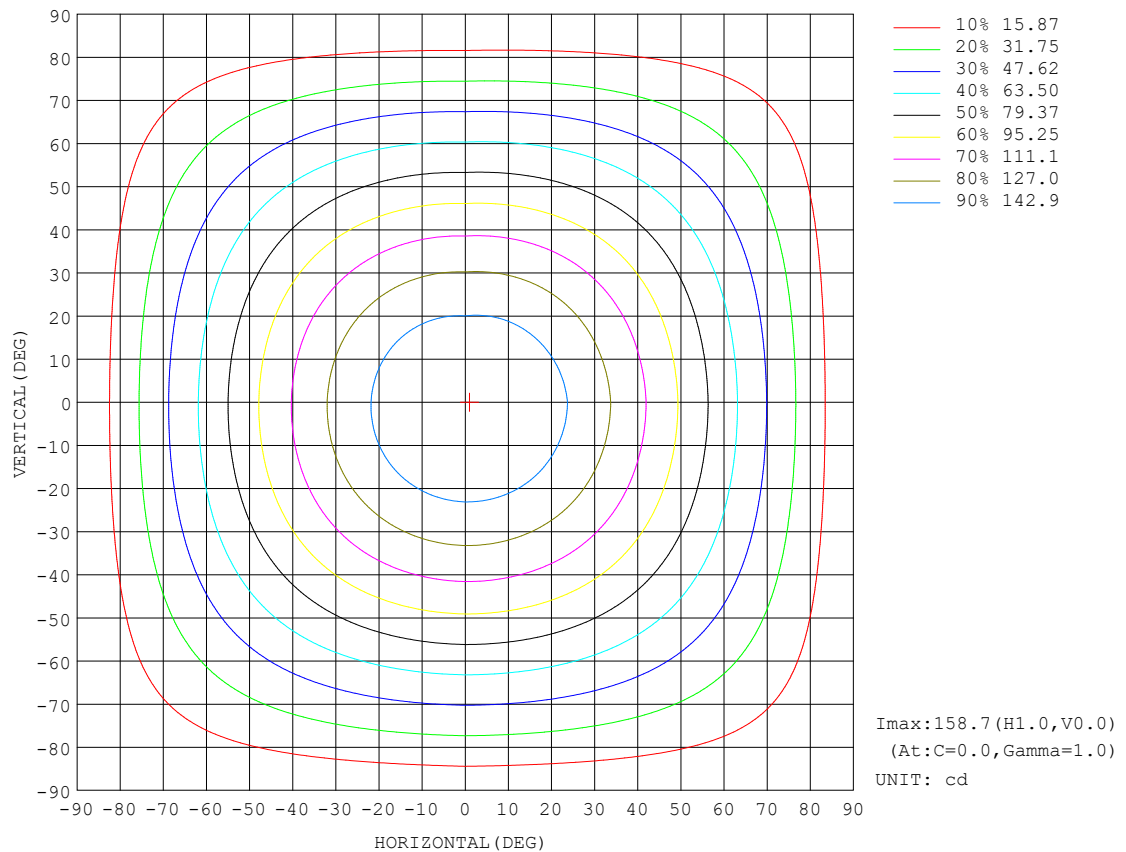
CIE Pub.117, 456.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.7)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

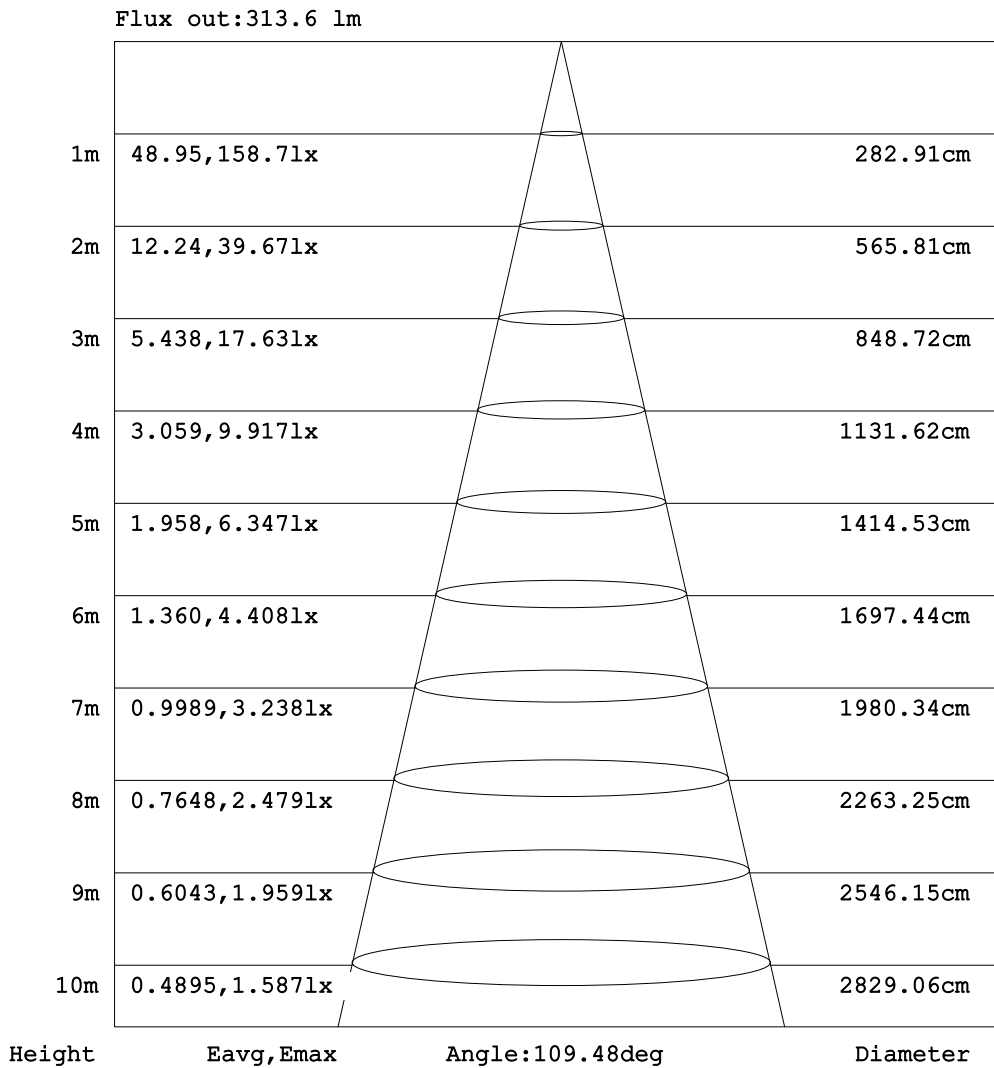


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:



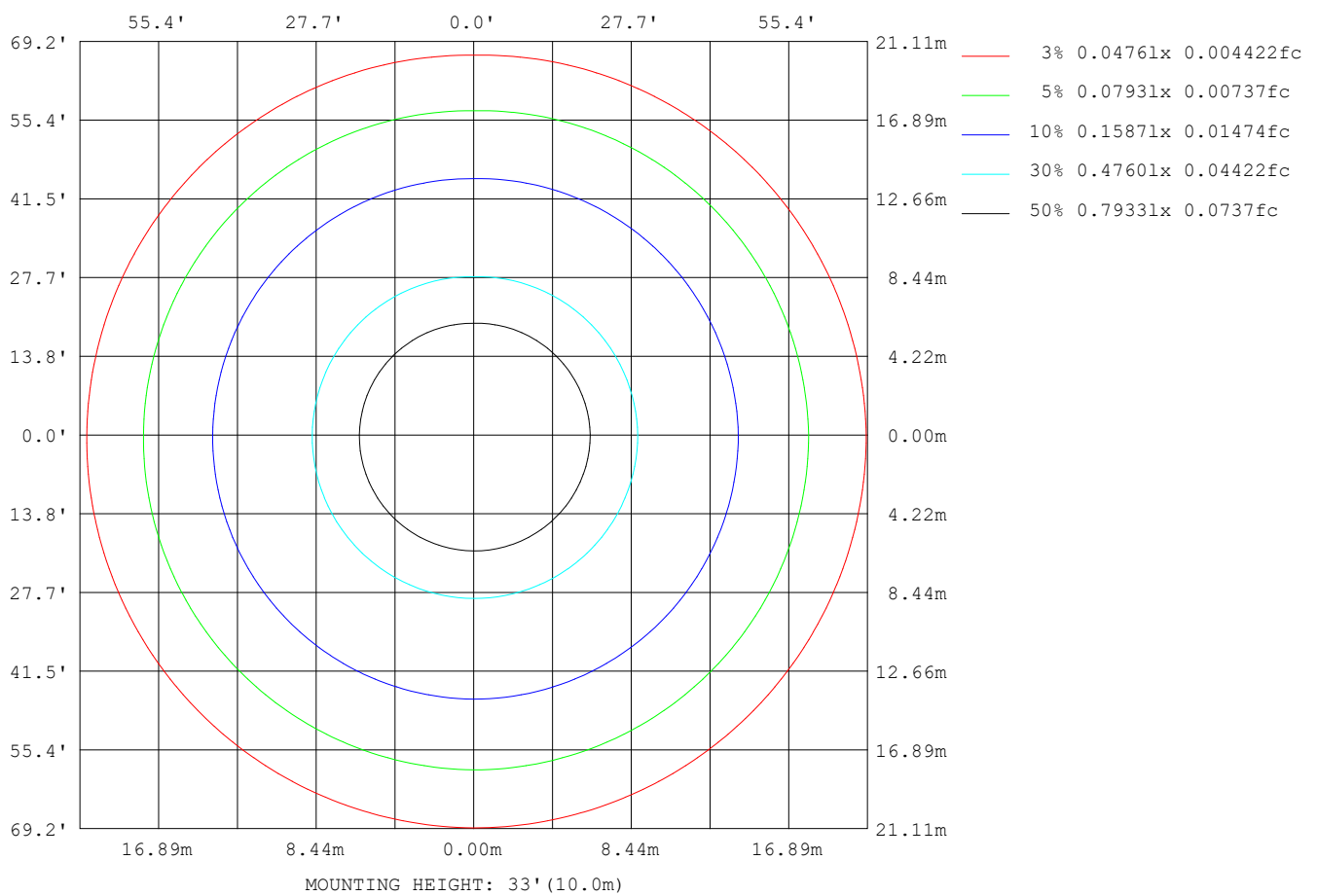
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JZ
Test Date: 2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 65.0%
Test Distance: 8.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

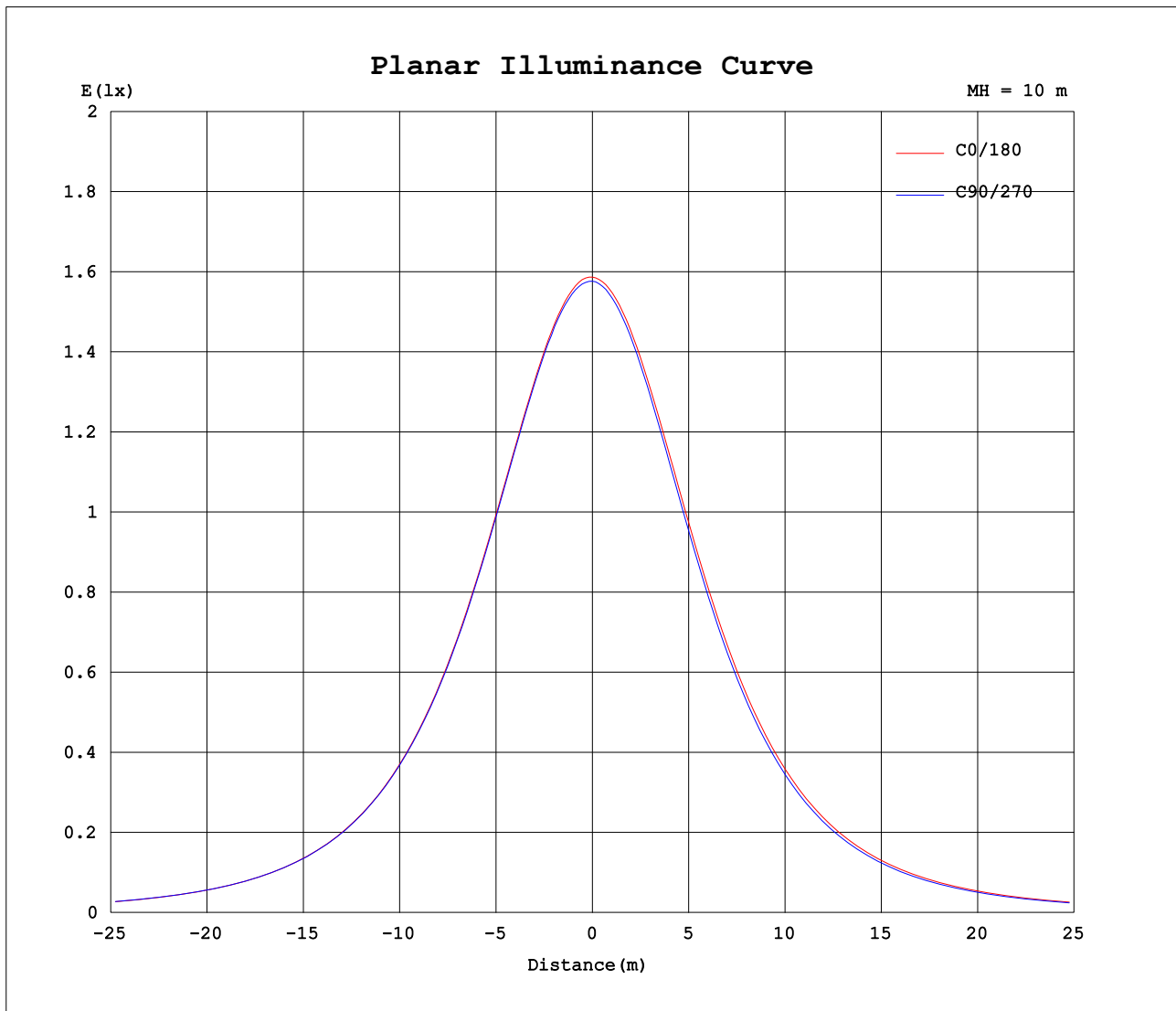
AvgL	cd/m2
L_0~180 (65) av	13658
L_0~180 (75) av	13301
L_0~180 (85) av	12718
L_90~270 (65) av	13304
L_90~270 (75) av	13042
L_90~270 (85) av	13219
L_45 (65) av	13416
L_45 (75) av	13110
L_45 (85) av	12948

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JZ
Test Date: 2024-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 65.0%
Test Distance: 8.700m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.001V I:0.5747A P:13.793W PF:1.0000 Freq:0Hz Lamp Flux:456.658x1 lm		
NAME: PM0600896 NS-156 合	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	159	158	159	158														
5	158	157	158	156														
10	156	155	155	153														
15	153	152	151	149														
20	148	147	145	143														
25	141	140	138	136														
30	133	133	130	127														
35	125	124	121	118														
40	115	114	112	108														
45	105	104	101	97.6														
50	93.7	93.2	90.6	86.6														
55	82.4	82.1	79.4	75.6														
60	70.8	70.8	67.9	64.2														
65	59.1	59.4	56.3	53.0														
70	47.4	48.2	44.8	41.8														
75	35.6	37.0	33.2	30.5														
80	23.9	25.8	21.6	19.3														
85	12.2	14.6	9.92	8.40														
90	1.57	4.50	1.13	1.58														
95	0.84	0.72	0.99	0.60														
100	0.76	0.51	0.85	0.53														
105	0.73	0.48	0.37	0.48														
110	0.64	0.45	0.30	0.49														
115	0.47	0.44	0.35	0.50														
120	0.40	0.47	0.41	0.50														
125	0.41	0.49	0.46	0.50														
130	0.41	0.53	0.50	0.50														
135	0.44	0.56	0.54	0.53														
140	0.55	0.59	0.59	0.55														
145	0.58	0.61	0.64	0.56														
150	0.59	0.65	0.67	0.57														
155	0.60	0.68	0.70	0.58														
160	0.62	0.71	0.72	0.63														
165	0.65	0.73	0.76	0.65														
170	0.70	0.75	0.76	0.69														
175	0.76	0.77	0.76	0.75														
180	0.76	0.78	0.76	0.75														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks: