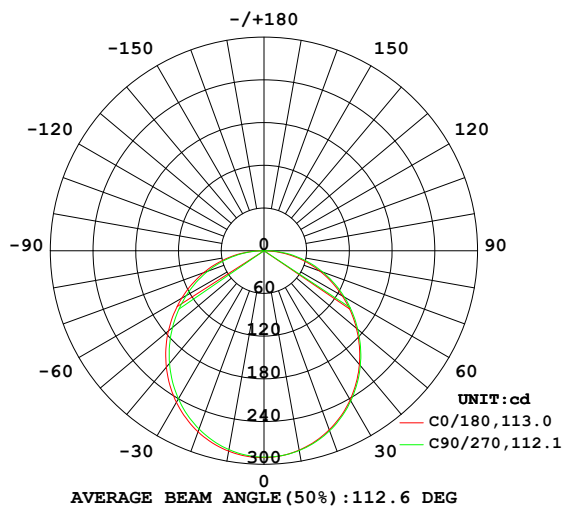


LUMINAIRE PHOTOMETRIC TEST REPORT

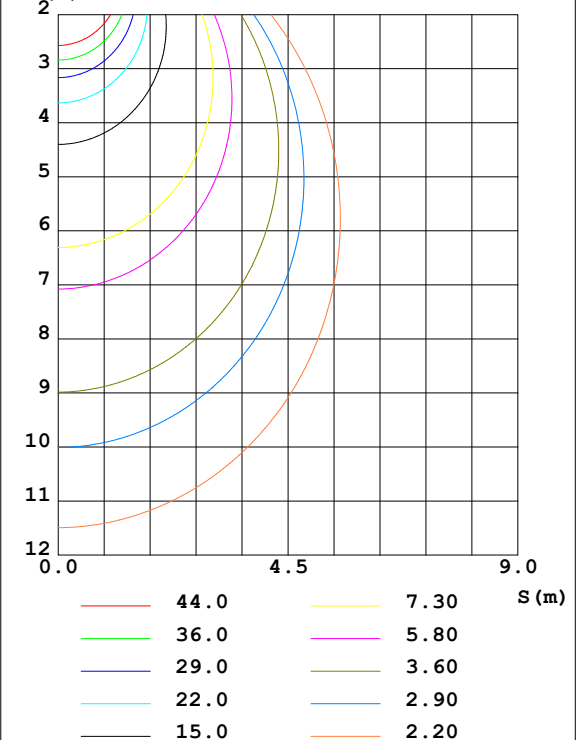
Test:U:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.62 lm/W			
MODEL		I _{max} (cd)	290.5	S/MH (C0/180)	1.26
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)		TOTAL FLUX (lm)	855.43	η UP,DN (C0-180)	0.5,49.4
NOMINAL FLUX (lm)	855.413	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.5,49.7
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.0	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: 2024-03-19

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:

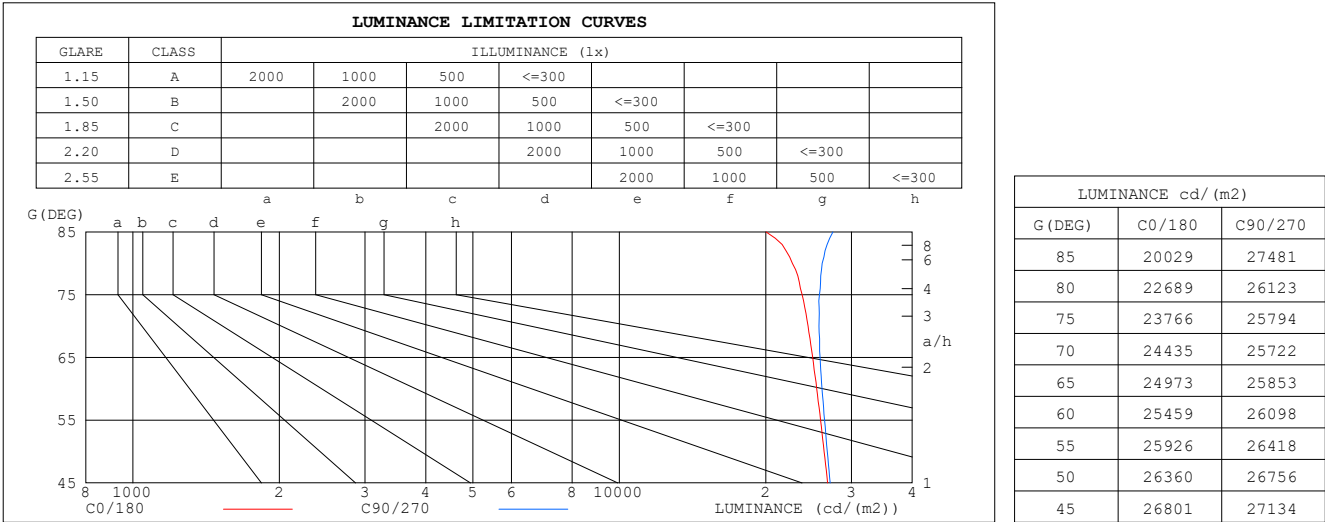
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	284.4	284.9	285.9	283.6					0- 10	27.44	27.44	3.21,3.21
20	267.7	269.2	270.7	266.6					10- 20	78.41	105.8	12.4,12.4
30	241.9	243.7	245.9	240.3					20- 30	118.3	224.2	26.2,26.2
40	208.4	210.5	213.4	206.5					30- 40	142.1	366.3	42.8,42.8
50	169.4	172.0	175.3	167.8					40- 50	147.3	513.6	60,60
60	127.3	130.5	133.5	126.3					50- 60	134.6	648.2	75.8,75.8
70	83.57	87.98	89.99	84.11					60- 70	106.9	755.1	88.3,88.3
80	39.40	45.36	45.89	41.53					70- 80	68.33	823.4	96.3,96.3
90	0.8154	5.675	3.526	3.503					80- 90	23.80	847.2	99,99
100	0.5395	2.463	1.070	1.687					90-100	1.880	849.1	99.3,99.3
110	0.5206	2.143	0.5668	1.527					100-110	1.350	850.4	99.4,99.4
120	0.6402	1.934	0.7515	1.429					110-120	1.177	851.6	99.6,99.6
130	0.8003	1.757	0.9237	1.350					120-130	1.075	852.7	99.7,99.7
140	0.9581	1.588	1.071	1.269					130-140	0.9445	853.6	99.8,99.8
150	1.084	1.348	1.183	1.237					140-150	0.7591	854.4	99.9,99.9
160	1.182	1.306	1.284	1.264					150-160	0.5709	854.9	99.9,99.9
170	1.305	1.372	1.336	1.305					160-170	0.3659	855.3	100,100
180	1.330	1.392	1.342	1.342					170-180	0.1278	855.4	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:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:



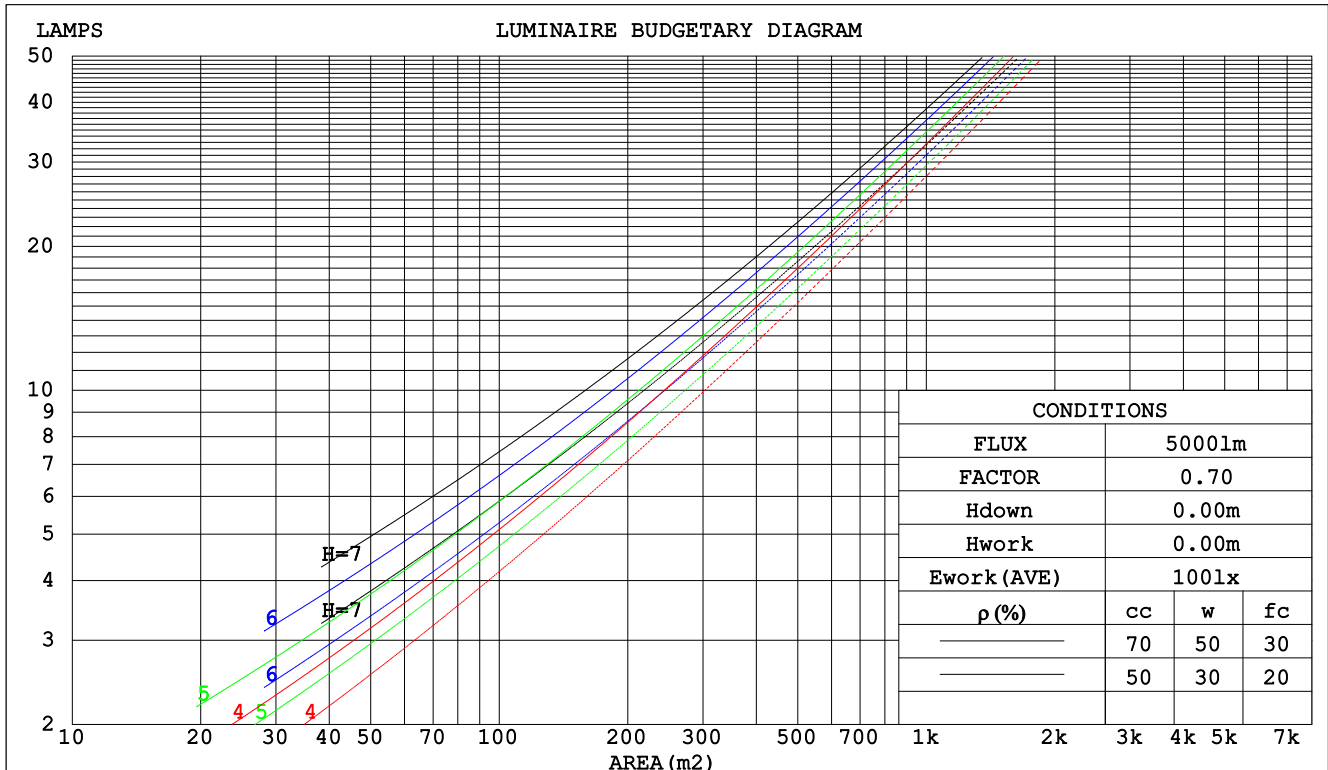
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

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	.98	.94	1.00	.96	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.89	.82	.76	.87	.81	.75	.84	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.78	.70	.63	.76	.69	.62	.73	.67	.61	.70	.65	.60	.68	.63	.59	.56
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.62	.52	.46	.60	.52	.45	.58	.51	.45	.56	.49	.44	.54	.48	.44	.41
6.0	.55	.46	.40	.54	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.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	.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: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz		
Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	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	.325	.185	.058	.317	.181	.057	.303	.174	.056	.291	.168	.054	.279	.162	.052		
2.0	.301	.165	.051	.294	.162	.050	.282	.157	.049	.271	.152	.048	.260	.147	.046		
3.0	.276	.147	.044	.270	.145	.044	.260	.141	.043	.249	.137	.042	.240	.133	.041		
4.0	.254	.132	.039	.248	.130	.038	.239	.127	.038	.230	.123	.037	.221	.120	.037		
5.0	.234	.119	.034	.229	.118	.034	.220	.115	.034	.212	.112	.033	.205	.110	.033		
6.0	.216	.108	.031	.212	.107	.031	.204	.105	.030	.197	.102	.030	.190	.100	.030		
7.0	.201	.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	.085	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.165	.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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021		
1.0	.189	.163	.141	.161	.140	.121	.110	.096	.084	.064	.056	.049	.020	.018	.016		
2.0	.181	.139	.104	.155	.120	.090	.106	.083	.063	.061	.048	.037	.020	.016	.012		
3.0	.173	.122	.081	.148	.105	.070	.102	.073	.049	.059	.043	.029	.019	.014	.009		
4.0	.165	.109	.065	.142	.094	.057	.098	.065	.040	.056	.038	.024	.018	.012	.008		
5.0	.158	.098	.054	.136	.085	.047	.093	.059	.033	.054	.035	.020	.017	.011	.007		
6.0	.151	.090	.046	.129	.078	.040	.089	.055	.029	.052	.032	.017	.017	.010	.006		
7.0	.144	.083	.041	.124	.072	.035	.085	.050	.025	.050	.030	.015	.016	.010	.005		
8.0	.137	.077	.036	.118	.067	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004		
9.0	.131	.072	.033	.113	.063	.029	.078	.044	.020	.046	.026	.012	.015	.009	.004		
10.0	.125	.068	.030	.108	.059	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm										
NAME: NS-156 2700K					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	24.6	26.2	24.9	26.4	26.6	24.7	26.2	25.0	26.5	26.7
3H	26.3	27.7	26.6	27.9	28.2	26.4	27.8	26.7	28.1	28.4
4H	27.0	28.3	27.3	28.6	28.9	27.2	28.5	27.5	28.8	29.1
6H	27.5	28.8	27.9	29.1	29.4	27.8	29.1	28.2	29.4	29.7
8H	27.7	29.0	28.1	29.3	29.6	28.1	29.3	28.5	29.6	29.9
12H	27.9	29.0	28.2	29.4	29.7	28.3	29.5	28.7	29.8	30.1
4H 2H	25.3	26.6	25.6	26.9	27.2	25.3	26.7	25.7	27.0	27.2
3H	27.1	28.3	27.5	28.6	29.0	27.3	28.4	27.6	28.8	29.1
4H	28.0	29.1	28.4	29.4	29.8	28.2	29.3	28.6	29.6	29.9
6H	28.7	29.6	29.1	30.0	30.4	29.0	29.9	29.4	30.3	30.7
8H	28.9	29.8	29.4	30.2	30.6	29.3	30.2	29.7	30.6	31.0
12H	29.1	29.9	29.6	30.4	30.8	29.6	30.4	30.0	30.8	31.2
8H 4H	28.3	29.2	28.8	29.6	30.0	28.5	29.4	28.9	29.8	30.2
6H	29.2	30.0	29.7	30.4	30.8	29.5	30.2	29.9	30.6	31.1
8H	29.6	30.2	30.0	30.7	31.2	29.9	30.6	30.4	31.0	31.5
12H	29.8	30.4	30.3	30.9	31.4	30.3	30.9	30.8	31.3	31.8
12H 4H	28.4	29.2	28.8	29.6	30.0	28.5	29.3	29.0	29.8	30.2
6H	29.3	30.0	29.8	30.4	30.9	29.6	30.2	30.0	30.7	31.1
8H	29.7	30.3	30.2	30.8	31.3	30.1	30.6	30.5	31.1	31.6
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				

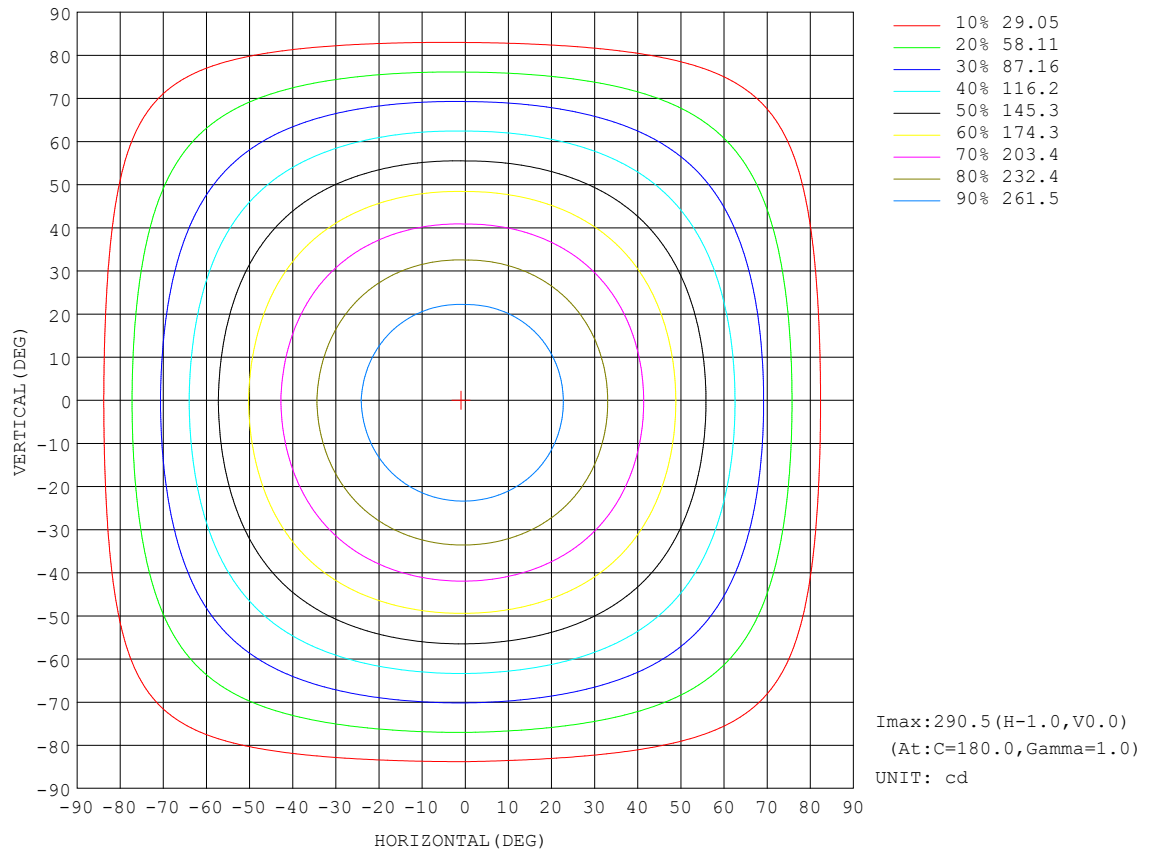
CIE Pub.117, 855.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

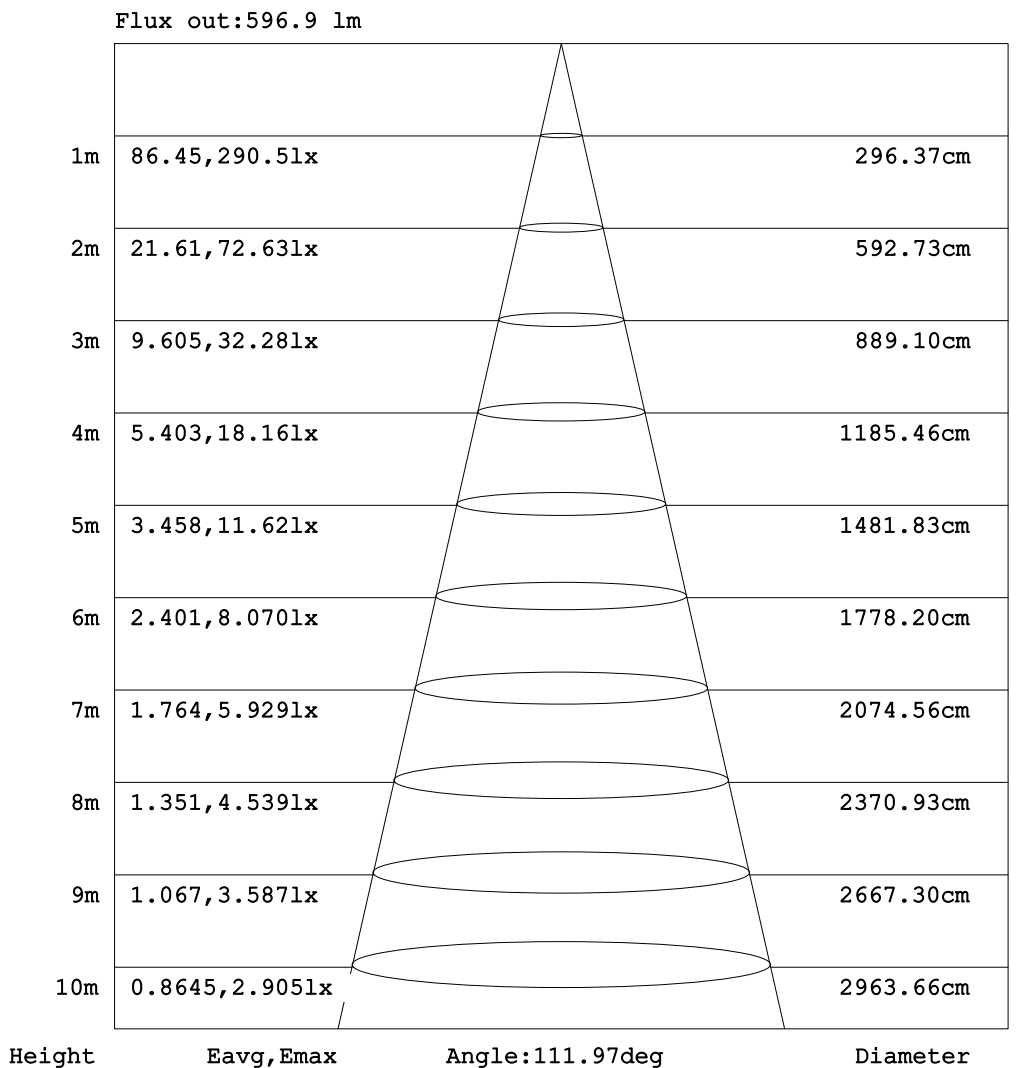


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:



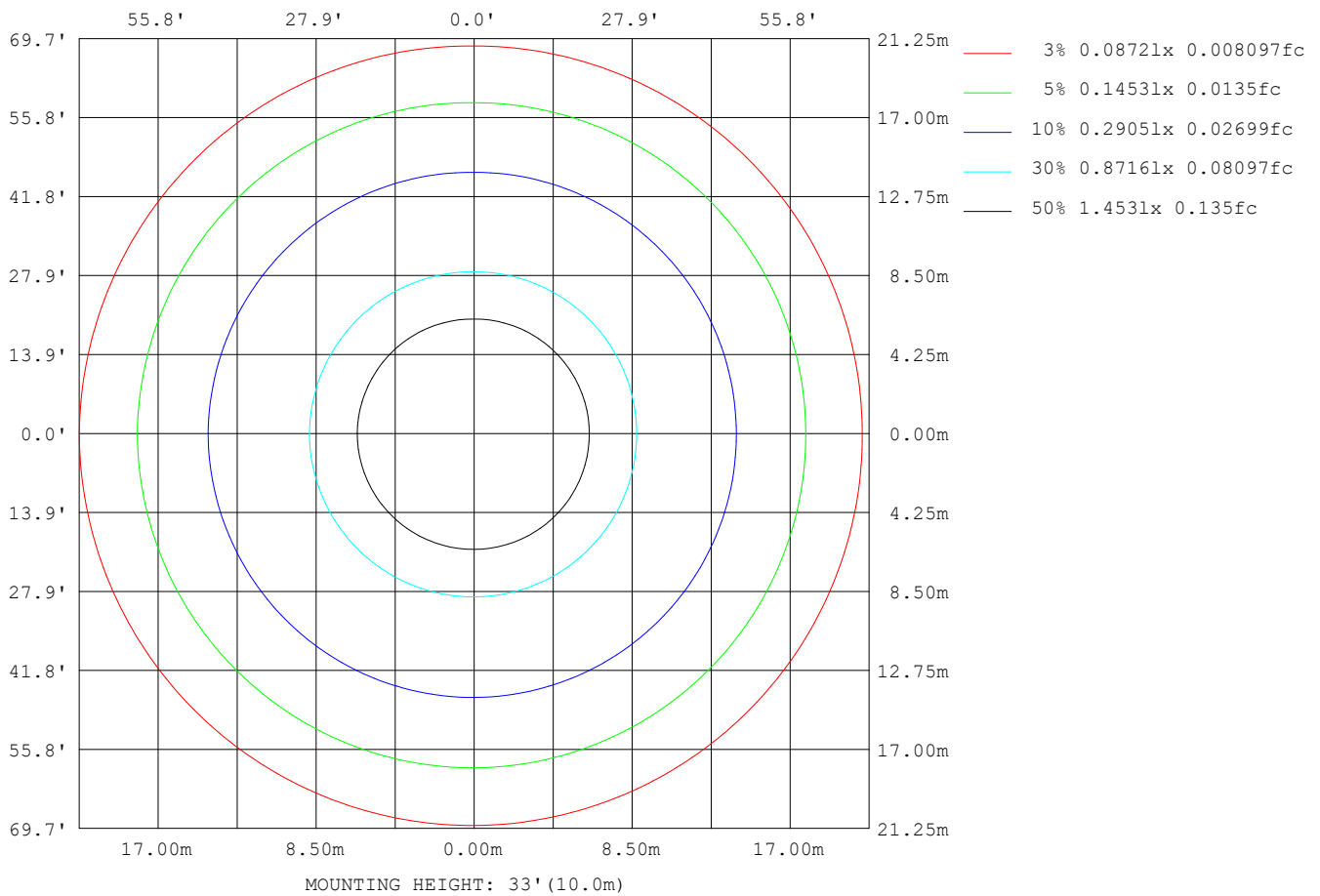
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	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:2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.01*1	Shielding Angle:

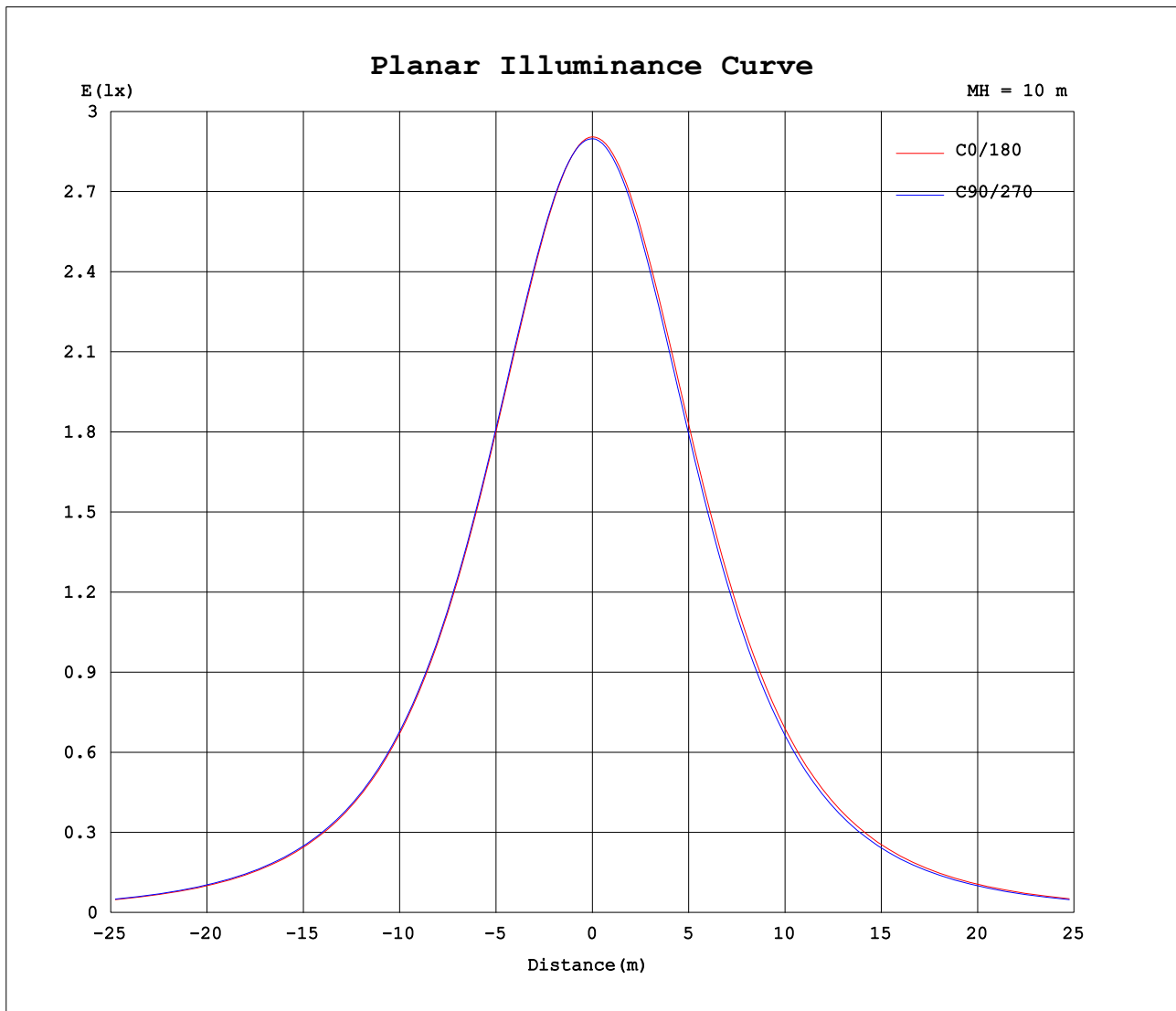
AvgL	cd/m2
L_0~180 (65) av	25719
L_0~180 (75) av	25015
L_0~180 (85) av	23635
L_90~270 (65) av	25375
L_90~270 (75) av	25011
L_90~270 (85) av	25394
L_45 (65) av	25551
L_45 (75) av	25091
L_45 (85) av	24960

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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: 2024-03-19

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:24.000V I:0.5692A P:13.661W PF:1.0000 Freq:0Hz Lamp Flux:855.413x1 lm		
NAME: NS-156 2700K	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	291	290	291	290														
5	289	289	290	288														
10	284	285	286	284														
15	277	278	280	276														
20	268	269	271	267														
25	256	257	259	255														
30	242	244	246	240														
35	226	228	231	224														
40	208	211	213	207														
45	190	192	195	188														
50	169	172	175	168														
55	149	152	155	147														
60	127	130	133	126														
65	106	109	112	105														
70	83.6	88.0	90.0	84.1														
75	61.5	66.8	68.0	62.7														
80	39.4	45.4	45.9	41.5														
85	17.5	24.0	23.7	20.3														
90	0.82	5.68	3.53	3.50														
95	0.58	2.64	1.37	1.76														
100	0.54	2.46	1.07	1.69														
105	0.53	2.32	0.54	1.60														
110	0.52	2.14	0.57	1.53														
115	0.54	2.07	0.67	1.47														
120	0.64	1.93	0.75	1.43														
125	0.73	1.85	0.83	1.38														
130	0.80	1.76	0.92	1.35														
135	0.92	1.71	0.99	1.30														
140	0.96	1.59	1.07	1.27														
145	1.02	1.43	1.13	1.24														
150	1.08	1.35	1.18	1.24														
155	1.15	1.31	1.24	1.25														
160	1.18	1.31	1.28	1.26														
165	1.23	1.35	1.33	1.28														
170	1.31	1.37	1.34	1.31														
175	1.33	1.39	1.34	1.33														
180	1.33	1.39	1.34	1.34														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2024-03-19

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: