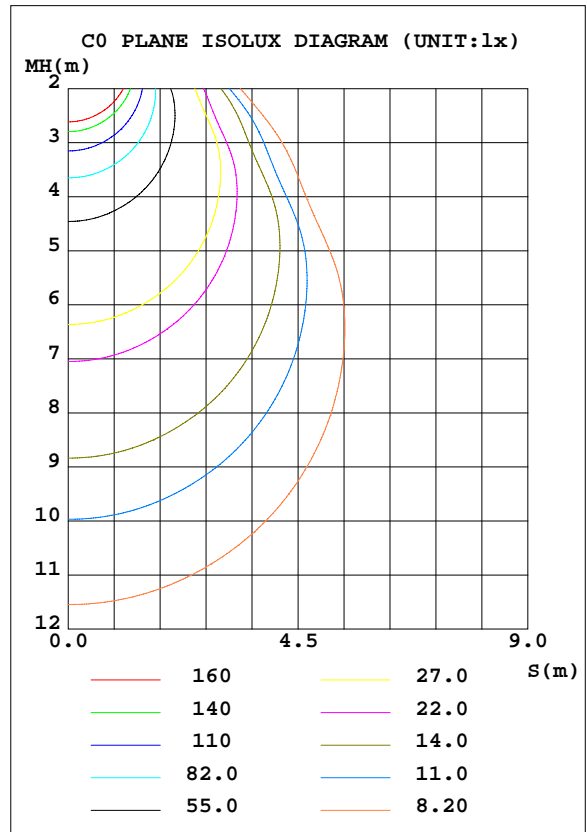
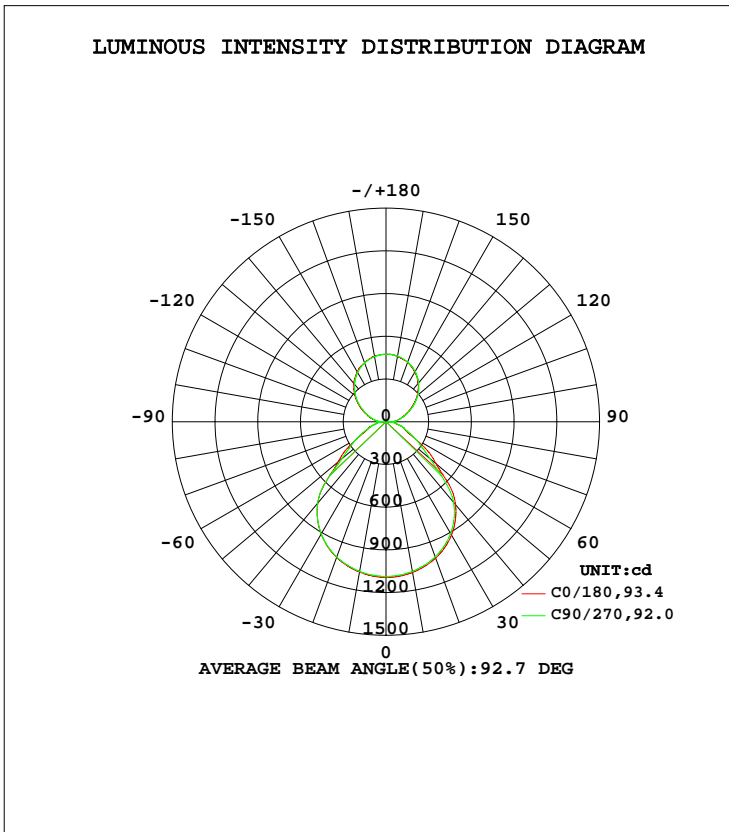


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.45 lm/W			
MODEL		I <sub>max</sub> (cd)	1093	S/MH(C0/180)	1.24
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3860.0	η UP, DN(C0-180)	19.0, 31.3
NOMINAL FLUX(lm)	3859.97	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	18.4, 31.3
LAMPS INSIDE	1	η up(%)	37.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	62.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

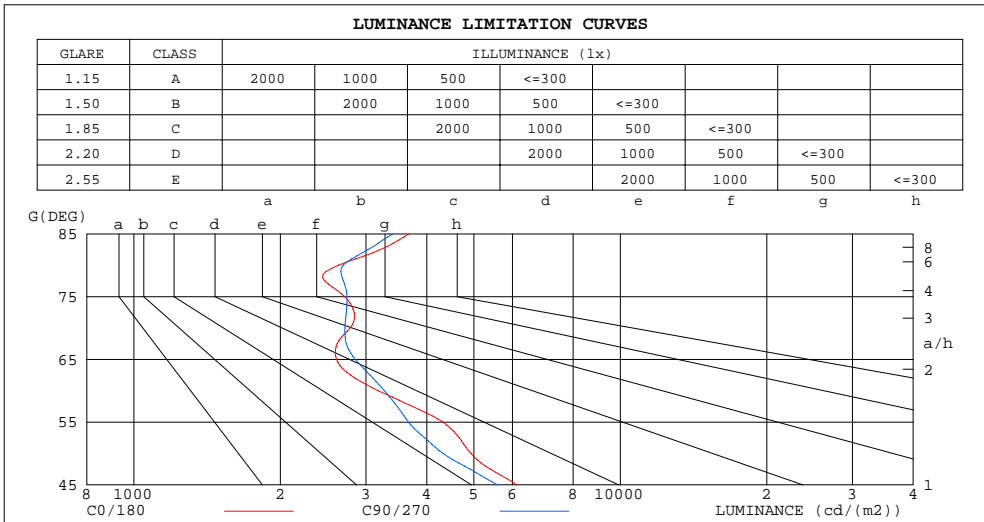
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	1075	1071	1067	1065	1072	1069	1067	1067	0- 10	102.9	102.9	2.67,2.67
20	1019	1016	1010	1007	1014	1012	1011	1012	10- 20	294.9	397.8	10.3,10.3
30	919.6	914.1	907.0	905.0	910.6	909.5	910.0	913.3	20- 30	445.5	843.3	21.8,21.8
40	760.3	750.4	738.1	738.2	745.3	743.9	747.7	755.2	30- 40	522.5	1366	35.4,35.4
50	459.6	413.9	402.8	427.1	439.1	414.3	403.8	440.8	40- 50	455.9	1822	47.2,47.2
60	230.3	252.5	237.4	193.3	228.6	243.9	239.9	198.8	50- 60	285.5	2107	54.6,54.6
70	138.0	109.0	134.7	118.3	130.9	112.5	125.7	121.7	60- 70	161.3	2268	58.8,58.8
80	66.31	71.44	67.77	74.19	69.90	66.39	65.99	70.95	70- 80	103.0	2371	61.4,61.4
90	8.909	9.493	7.105	5.387	5.232	5.086	6.847	8.247	80- 90	46.28	2418	62.6,62.6
100	89.22	92.10	92.81	91.77	88.26	83.43	83.80	84.83	90-100	70.60	2488	64.5,64.5
110	142.7	149.0	150.2	147.2	142.8	138.6	135.7	138.4	100-110	121.1	2609	67.6,67.6
120	212.3	218.6	219.7	217.1	210.3	206.4	203.3	205.4	110-120	174.4	2784	72.1,72.1
130	286.8	291.2	292.4	289.2	283.6	278.3	277.3	279.5	120-130	222.3	3006	77.9,77.9
140	351.5	355.1	356.7	355.1	351.0	346.9	343.8	347.0	130-140	246.1	3252	84.3,84.3
150	404.3	409.4	409.6	407.6	403.7	400.3	399.4	401.1	140-150	237.6	3490	90.4,90.4
160	444.5	445.1	446.5	446.4	441.8	439.8	439.5	440.2	150-160	196.3	3686	95.5,95.5
170	466.1	469.2	468.8	469.8	468.5	465.7	464.7	465.9	160-170	128.9	3815	98.8,98.8
180	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	170-180	44.96	3860	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	3676	3413
80	2634	2692
75	2712	2742
70	2783	2716
65	2610	2852
60	3177	3274
55	4317	3667
50	4931	4321
45	6131	5593

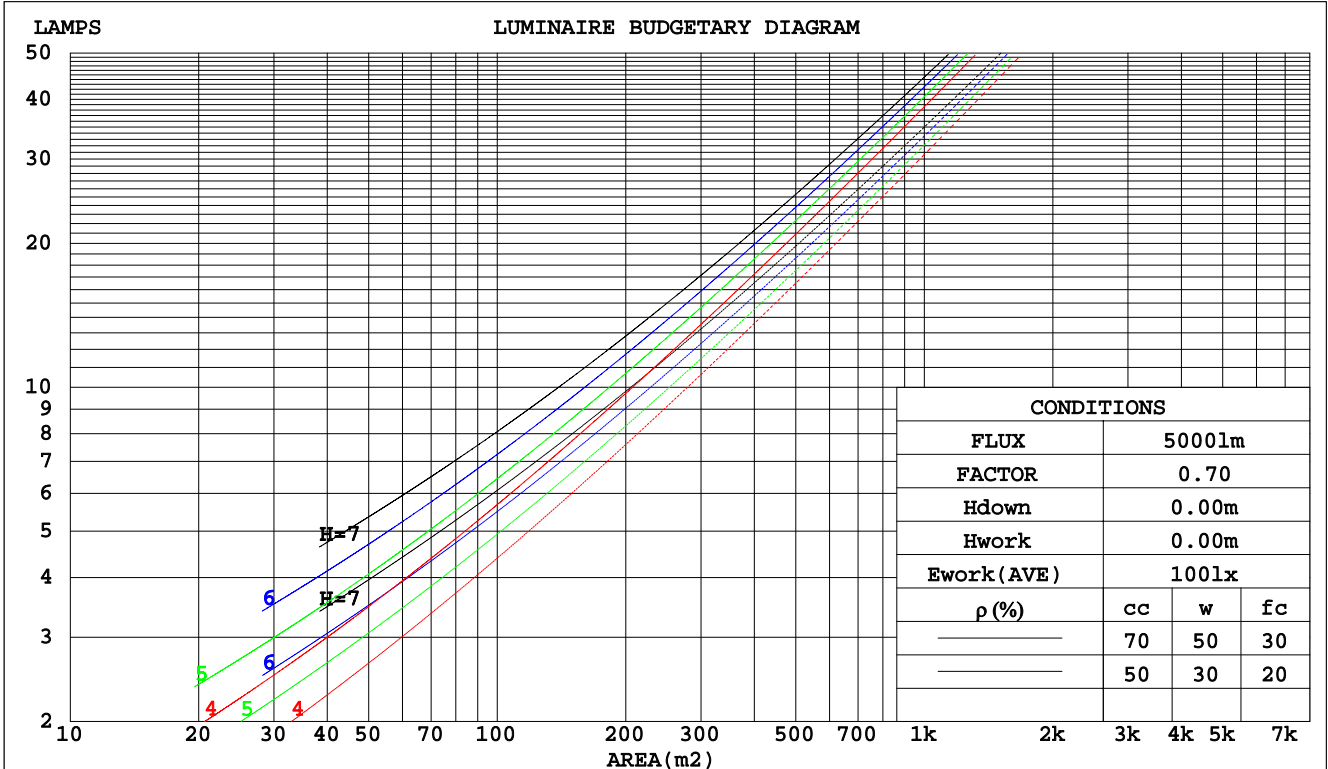
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.10	1.10	1.10	1.03	1.03	1.03	.90	.90	.90	.79	.79	.79	.68	.68	.68	.63
1.0	.97	.93	.90	.91	.88	.85	.80	.78	.76	.70	.68	.67	.61	.60	.58	.54
2.0	.86	.80	.75	.81	.76	.71	.71	.67	.64	.63	.60	.57	.55	.52	.51	.47
3.0	.76	.69	.63	.72	.66	.61	.64	.59	.55	.56	.52	.49	.49	.46	.44	.40
4.0	.68	.60	.55	.64	.57	.52	.57	.52	.48	.51	.46	.43	.44	.41	.39	.35
5.0	.61	.53	.47	.58	.51	.45	.52	.46	.42	.46	.41	.38	.40	.37	.34	.31
6.0	.55	.47	.42	.52	.45	.40	.47	.41	.37	.42	.37	.34	.37	.33	.30	.28
7.0	.50	.42	.37	.48	.40	.35	.43	.37	.33	.38	.34	.30	.34	.30	.27	.25
8.0	.46	.38	.33	.43	.37	.32	.39	.33	.29	.35	.30	.27	.31	.28	.25	.23
9.0	.42	.35	.30	.40	.33	.28	.36	.30	.26	.32	.28	.24	.29	.25	.22	.20
10.0	.39	.31	.27	.37	.30	.26	.33	.28	.24	.30	.25	.22	.27	.23	.21	.19



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

WEC AND CCEC

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.268	.152	.048	.250	.142	.045	.216	.124	.039	.184	.106	.034	.155	.090	.029	
2.0	.250	.137	.042	.233	.129	.040	.202	.113	.035	.174	.098	.031	.148	.083	.026	
3.0	.232	.124	.037	.217	.116	.035	.189	.102	.031	.163	.089	.027	.139	.077	.024	
4.0	.216	.112	.033	.202	.106	.031	.177	.094	.028	.153	.082	.025	.130	.071	.022	
5.0	.201	.103	.030	.189	.097	.028	.165	.086	.025	.143	.076	.022	.123	.066	.020	
6.0	.188	.094	.027	.177	.089	.026	.155	.079	.023	.135	.070	.021	.115	.061	.018	
7.0	.176	.087	.025	.166	.083	.024	.146	.074	.021	.127	.065	.019	.109	.057	.017	
8.0	.166	.081	.023	.156	.077	.022	.137	.069	.020	.120	.061	.017	.103	.053	.015	
9.0	.156	.076	.021	.147	.072	.020	.130	.064	.018	.113	.057	.016	.098	.050	.014	
10.0	.147	.071	.020	.139	.067	.019	.123	.060	.017	.107	.053	.015	.093	.047	.013	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.475	.475	.475	.406	.406	.406	.277	.277	.277	.159	.159	.159	.051	.051	.051	
1.0	.464	.444	.425	.397	.381	.366	.272	.262	.253	.156	.152	.147	.050	.049	.048	
2.0	.456	.421	.392	.390	.362	.339	.267	.251	.236	.154	.146	.139	.049	.047	.045	
3.0	.448	.405	.370	.384	.349	.321	.264	.242	.225	.152	.142	.133	.049	.046	.043	
4.0	.440	.392	.355	.378	.339	.308	.260	.236	.217	.150	.138	.129	.048	.045	.042	
5.0	.434	.382	.344	.372	.331	.300	.257	.231	.212	.149	.136	.125	.048	.044	.041	
6.0	.427	.374	.337	.367	.324	.293	.253	.227	.207	.147	.134	.123	.047	.044	.041	
7.0	.421	.368	.331	.362	.319	.288	.250	.224	.204	.145	.132	.122	.047	.043	.040	
8.0	.416	.363	.326	.358	.315	.284	.248	.221	.202	.144	.130	.120	.047	.043	.040	
9.0	.410	.358	.323	.354	.311	.282	.245	.218	.200	.143	.129	.119	.046	.042	.040	
10.0	.405	.354	.320	.350	.308	.279	.242	.216	.198	.141	.128	.118	.046	.042	.039	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 450*82			SERIAL No.:				
MFR.:			SUR.:3.14*0.215*0.215			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	15.0	16.0	15.7	16.7	17.6	14.7	15.7	15.4	16.4	17.2
3H	15.8	16.7	16.5	17.4	18.3	15.3	16.2	16.0	16.9	17.8
4H	16.1	17.0	16.9	17.7	18.7	15.8	16.6	16.5	17.4	18.3
6H	16.4	17.2	17.2	17.9	18.9	16.1	16.9	16.9	17.7	18.6
8H	16.6	17.3	17.4	18.1	19.1	16.3	17.1	17.1	17.8	18.8
12H	16.7	17.4	17.6	18.3	19.2	16.5	17.2	17.3	18.0	19.0
4H 2H	15.1	15.9	15.9	16.7	17.6	14.8	15.6	15.5	16.4	17.3
3H	16.0	16.7	16.8	17.5	18.5	15.6	16.3	16.4	17.1	18.1
4H	16.6	17.2	17.4	18.0	19.0	16.3	16.9	17.1	17.7	18.7
6H	16.9	17.5	17.8	18.3	19.4	16.8	17.4	17.7	18.2	19.3
8H	17.2	17.7	18.1	18.6	19.6	17.1	17.6	17.9	18.5	19.5
12H	17.5	17.9	18.4	18.8	19.9	17.3	17.8	18.2	18.7	19.8
8H 4H	16.6	17.1	17.5	18.0	19.1	16.4	16.9	17.2	17.7	18.8
6H	17.2	17.6	18.1	18.5	19.6	17.1	17.5	18.0	18.4	19.5
8H	17.6	17.9	18.5	18.8	20.0	17.5	17.9	18.5	18.8	19.9
12H	18.0	18.3	18.9	19.3	20.4	17.9	18.3	18.9	19.2	20.3
12H 4H	16.6	17.1	17.5	18.0	19.0	16.4	16.8	17.2	17.7	18.8
6H	17.2	17.6	18.1	18.5	19.6	17.2	17.5	18.1	18.4	19.6
8H	17.7	18.0	18.6	18.9	20.0	17.6	18.0	18.6	18.9	20.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.8 / - 0.9					+ 0.8 / - 0.8				

CIE Pub.117, 3860 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.7)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

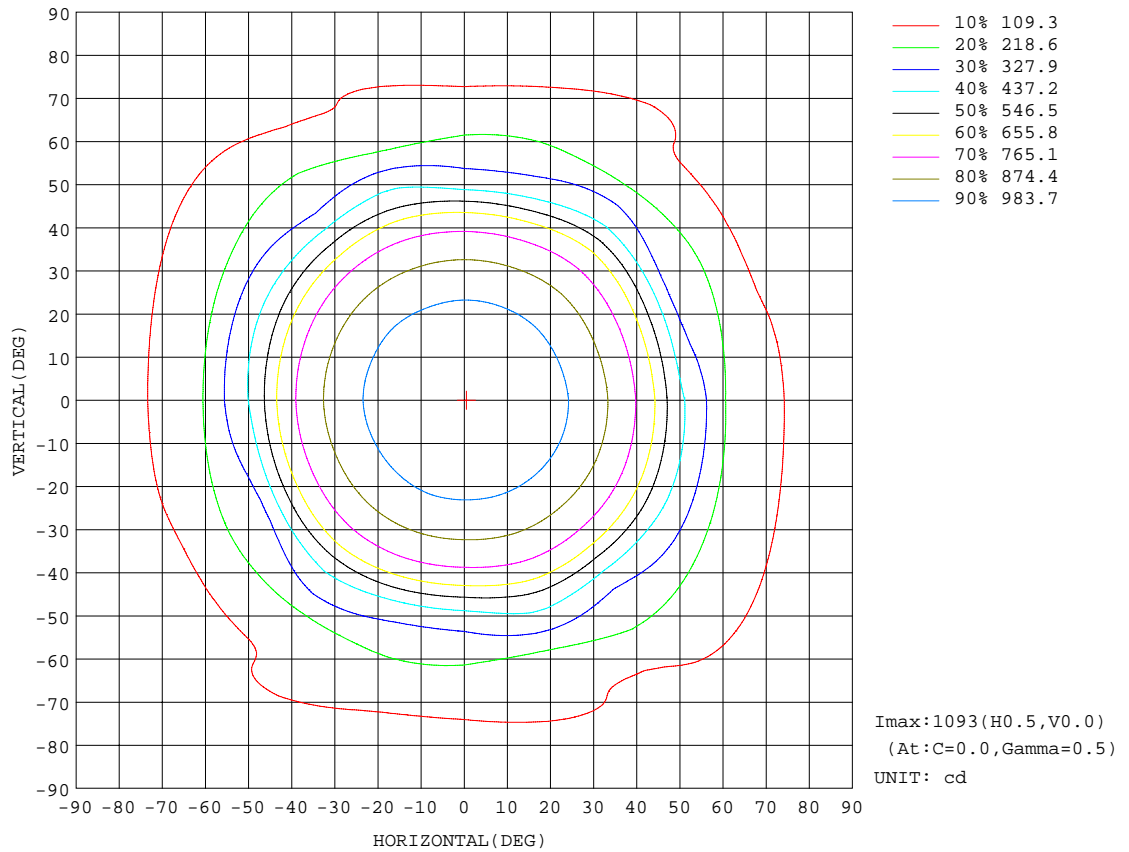
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	41	35	50	40	34	46	38	33	26
0.80	61	50	44	58	49	43	54	46	40	32
1.00	69	58	51	65	56	50	60	53	47	37
1.25	75	65	58	72	63	57	65	58	53	41
1.50	80	70	64	76	67	62	68	62	57	44
2.00	86	78	72	82	74	69	73	68	63	48
2.50	90	82	76	85	78	73	76	71	67	50
3.00	93	86	81	88	82	77	78	74	70	52
4.00	97	91	87	91	86	82	81	77	74	54
5.00	100	95	90	94	89	86	83	80	77	56
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

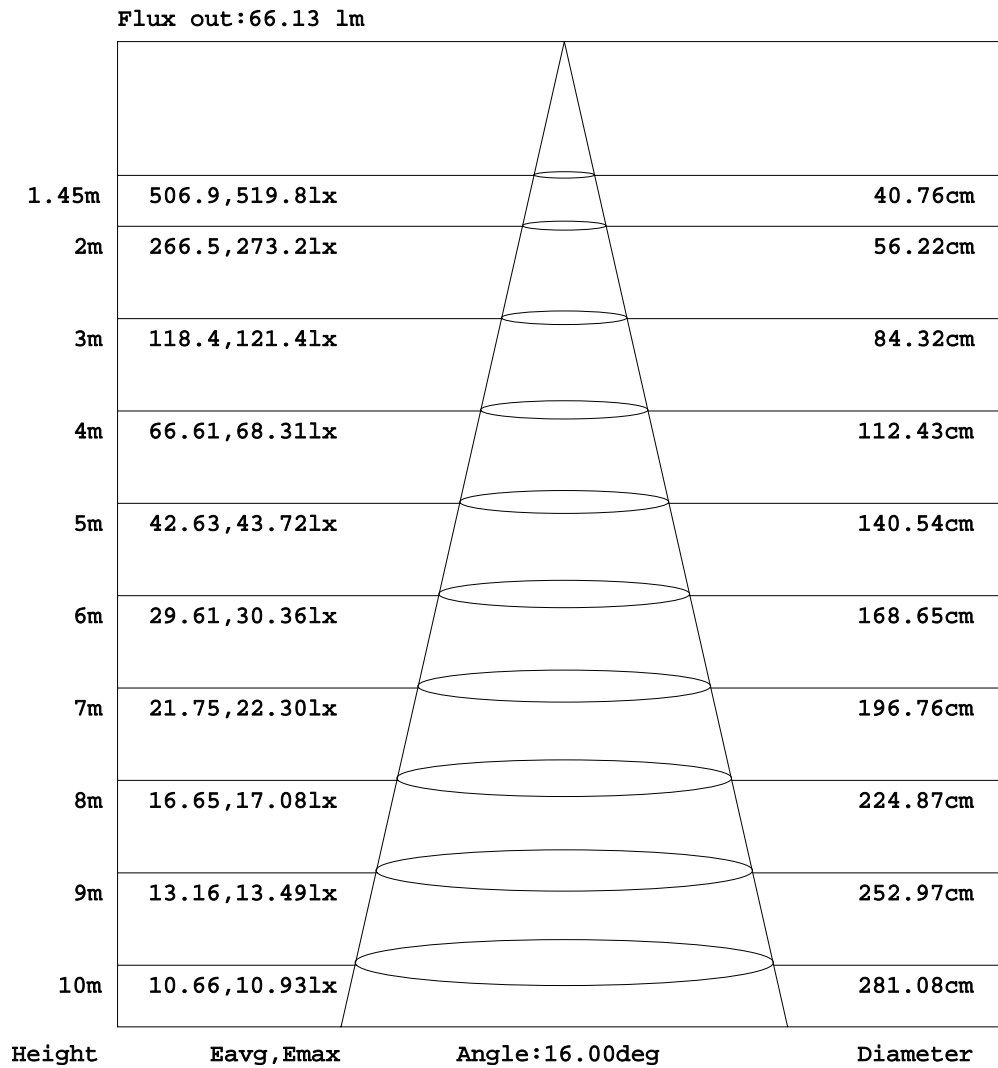


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=0.8547]  
 Remarks:

AAI Figure

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



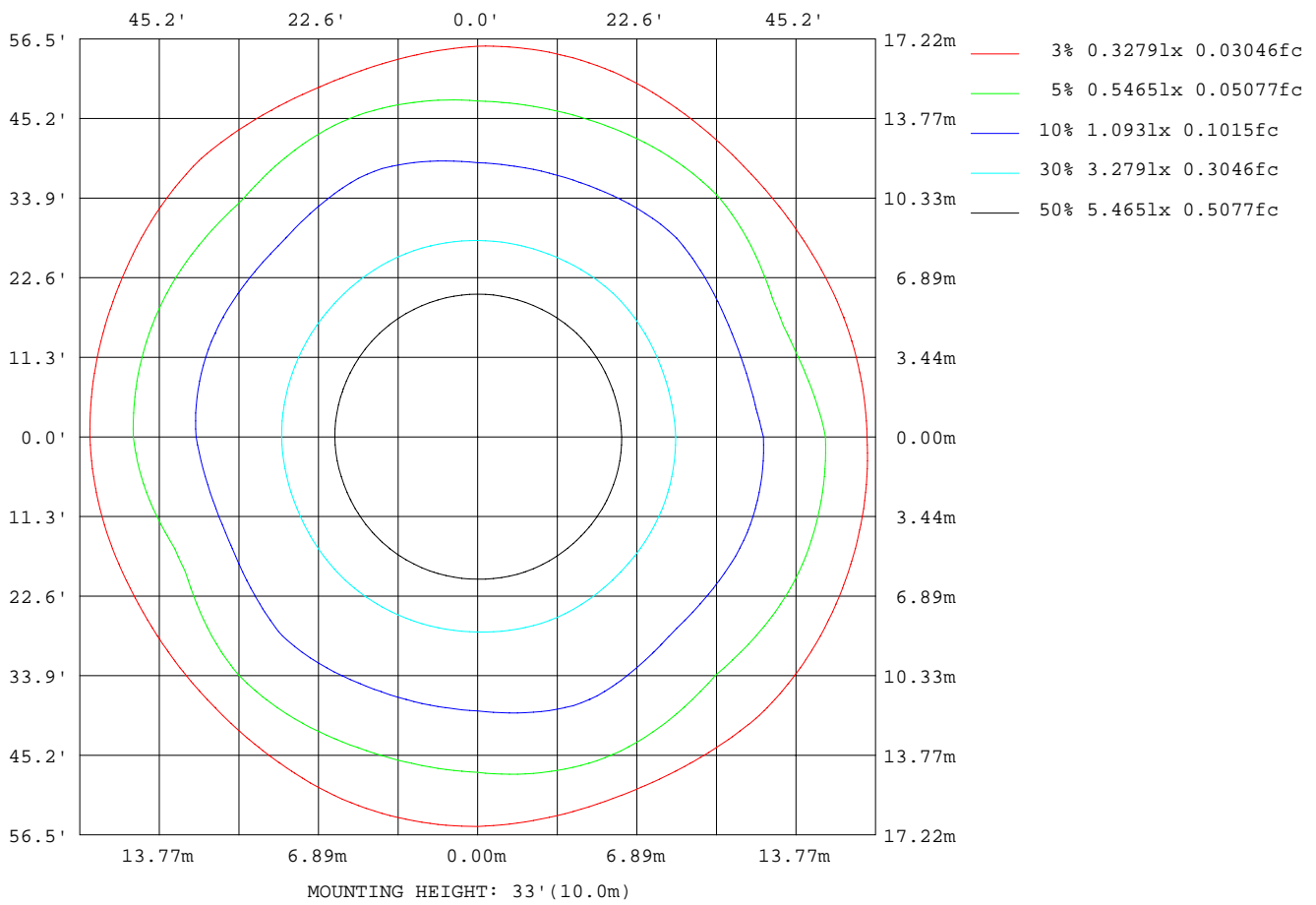
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

ISOLUX DIAGRAM

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

**LED Avg.L Report**

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

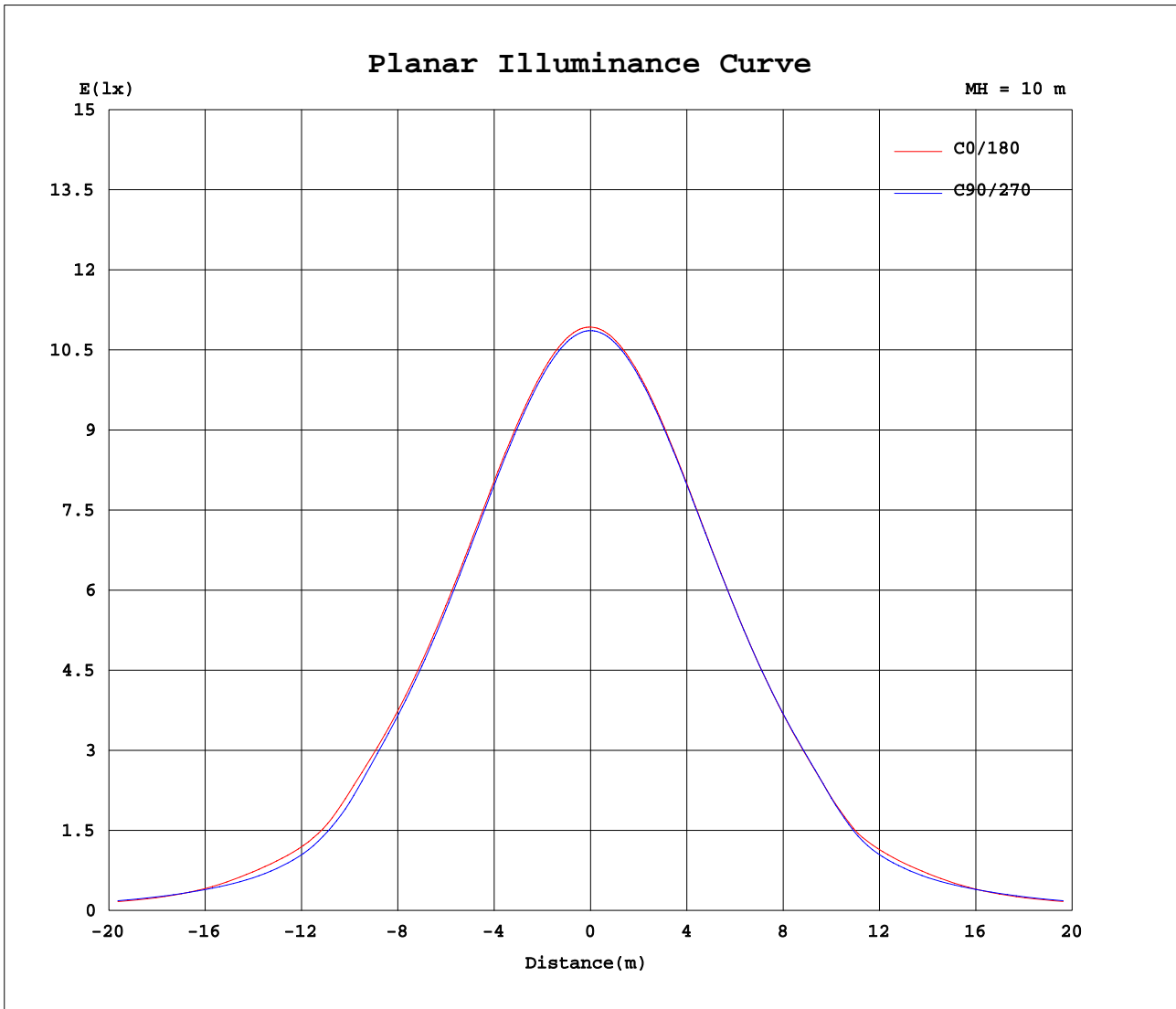
AvgL	cd/m2
L_0~180(65)av	2615
L_0~180(75)av	2617
L_0~180(85)av	3581
L_90~270(65)av	2847
L_90~270(75)av	2646
L_90~270(85)av	3427
L_45(65)av	2385
L_45(75)av	2702
L_45(85)av	3528

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-05-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1093	1092	1092	1091	1091	1090	1090	1090	1089	1089	1088	1088	1088	1087	1087	1087	1087	1086	1086
5	1089	1088	1088	1088	1087	1087	1086	1086	1085	1085	1084	1084	1083	1083	1083	1082	1082	1082	1081
10	1075	1074	1074	1074	1073	1073	1072	1072	1071	1071	1070	1070	1070	1069	1069	1068	1068	1067	1067
15	1051	1051	1051	1051	1050	1050	1049	1049	1048	1048	1047	1047	1046	1046	1045	1045	1044	1044	1043
20	1019	1019	1019	1019	1019	1018	1018	1017	1016	1016	1015	1014	1013	1013	1012	1012	1011	1011	1010
25	976	976	976	976	975	975	974	973	972	971	970	970	969	969	968	967	966	966	965
30	920	920	920	920	919	919	918	916	915	914	914	913	913	913	912	910	909	908	907
35	848	849	849	849	849	848	846	844	843	841	841	842	842	842	841	839	837	835	833
40	760	761	762	762	761	760	757	755	752	750	751	753	754	754	753	750	746	742	738
45	629	631	631	631	628	622	614	605	598	593	598	605	612	618	616	607	595	584	573
50	460	463	465	465	462	454	442	431	421	414	424	436	449	460	459	447	433	417	403
55	359	363	365	364	361	352	340	327	315	307	315	325	336	345	346	338	327	316	305
60	230	235	239	243	246	249	252	254	254	252	245	236	227	219	217	221	226	232	237
65	160	166	170	174	176	177	178	177	175	171	159	147	136	127	128	138	150	163	175
70	138	144	147	148	147	142	134	125	116	109	110	112	116	121	125	128	131	133	135
75	102	103	103	103	103	102	99.6	97.9	96.6	96.1	99.6	104	108	111	112	111	108	106	103
80	66.3	64.8	63.9	63.5	63.5	64.4	65.9	67.7	69.6	71.4	72.8	73.8	74.5	74.7	74.1	72.6	70.9	69.2	67.8
85	46.5	47.7	48.5	49.1	49.3	49.0	48.3	47.4	46.5	45.7	45.8	46.1	46.4	46.7	46.4	45.6	44.7	43.8	43.1
90	8.91	8.98	9.04	9.11	9.18	9.27	9.39	9.48	9.52	9.49	9.22	8.89	8.53	8.15	7.86	7.65	7.45	7.28	7.10
95	66.4	66.7	67.1	67.4	67.7	67.9	68.2	68.4	68.5	68.7	68.7	68.8	68.8	68.8	68.9	69.0	69.0	69.1	69.2
100	89.2	89.5	89.7	90.0	90.3	90.7	91.0	91.4	91.8	92.1	92.3	92.4	92.5	92.6	92.7	92.7	92.8	92.8	92.8
105	115	115	116	116	117	117	118	118	119	119	119	120	120	120	120	120	120	120	120
110	143	144	144	145	146	147	147	148	148	149	149	149	149	150	150	150	150	150	150
115	175	176	177	178	179	179	180	181	182	183	183	183	183	183	183	183	184	184	184
120	212	213	214	214	215	216	216	217	218	219	219	219	219	219	219	219	220	220	220
125	250	250	251	251	252	253	254	254	255	256	256	256	256	256	256	256	256	256	256
130	287	287	287	288	288	288	289	290	291	291	292	292	292	292	292	292	292	292	292
135	320	320	321	321	322	322	323	323	324	324	325	325	325	326	326	326	326	326	326
140	351	352	352	352	353	353	354	354	355	355	355	356	356	356	356	356	357	357	357
145	381	382	382	382	383	383	383	383	383	383	383	383	384	384	384	384	384	385	385
150	404	405	405	405	406	407	407	408	409	409	410	410	409	409	409	409	410	410	410
155	425	426	427	428	429	429	429	429	429	428	428	429	429	429	429	430	430	430	430
160	444	444	444	444	444	444	444	444	445	445	445	446	446	446	446	446	446	447	447
165	455	457	458	458	459	460	460	460	460	460	460	460	460	460	460	460	460	459	459
170	466	466	466	466	467	467	468	468	469	469	470	470	470	470	470	470	469	469	469
175	474	474	473	473	473	473	473	473	473	473	473	474	474	474	474	474	474	474	474
180	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--2 UNIT: cd

C( DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1086	1086	1086	1086	1086	1086	1086	1086	1085	1085	1085	1085	1085	1086	1088	1090	1091	1093	1093
5	1081	1081	1081	1081	1081	1081	1080	1080	1080	1080	1079	1080	1080	1081	1083	1084	1086	1087	1087
10	1067	1067	1067	1067	1067	1066	1066	1066	1065	1065	1065	1065	1065	1066	1068	1069	1071	1072	1072
15	1043	1043	1043	1043	1043	1043	1042	1042	1042	1041	1041	1041	1041	1042	1044	1045	1047	1048	1048
20	1010	1010	1010	1010	1010	1009	1009	1008	1007	1007	1007	1008	1008	1009	1010	1012	1013	1014	1014
25	965	965	965	965	965	964	964	963	963	962	962	962	963	963	965	966	967	968	968
30	907	907	907	907	907	906	906	906	905	904	904	903	903	904	906	908	909	911	911
35	833	833	833	833	833	833	832	832	832	831	830	829	829	830	832	834	836	838	838
40	737	737	737	737	738	738	738	738	738	736	735	733	732	733	736	739	742	745	746
45	571	571	572	575	578	581	585	588	589	585	580	575	571	572	578	585	592	599	601
50	397	393	392	393	399	408	416	423	427	414	399	384	372	373	386	404	422	439	445
55	301	298	297	297	301	307	312	316	317	305	291	278	268	271	286	305	325	342	347
60	238	238	236	233	226	217	208	199	193	196	201	207	214	219	222	225	227	229	229
65	179	182	181	178	169	156	143	130	121	124	131	139	148	154	157	158	159	161	164
70	135	134	132	131	129	127	124	121	118	112	106	101	98.1	99.9	107	115	123	131	134
75	101	100	99.6	99.3	100	102	103	105	106	104	101	98.1	95.4	93.9	93.8	93.9	94.3	94.7	93.9
80	67.7	68.0	68.6	69.4	70.4	71.5	72.6	73.6	74.2	73.7	72.9	71.9	70.9	70.3	70.2	70.1	70.0	69.9	69.4
85	43.3	43.7	44.1	44.7	45.1	45.3	45.4	45.5	45.4	45.0	44.5	44.0	43.5	43.3	43.4	43.6	43.8	44.1	44.2
90	6.90	6.70	6.49	6.29	6.09	5.89	5.70	5.53	5.39	5.29	5.21	5.16	5.13	5.13	5.16	5.19	5.22	5.23	5.15
95	69.2	69.2	69.1	69.1	69.0	68.9	68.9	68.7	68.6	68.3	68.0	67.7	67.4	67.1	66.8	66.5	66.2	65.9	65.5
100	92.8	92.7	92.6	92.4	92.3	92.3	92.1	92.0	91.8	91.4	90.9	90.5	90.0	89.6	89.2	88.9	88.6	88.3	88.0
105	120	120	120	119	119	119	119	118	118	118	117	117	116	116	115	115	115	114	114
110	150	150	150	149	149	149	148	148	147	147	146	146	145	145	144	144	143	143	142
115	184	183	183	182	182	182	181	181	180	180	179	179	178	177	177	176	175	175	174
120	219	219	219	218	218	218	218	217	217	216	216	215	214	213	212	212	211	210	210
125	256	256	256	255	255	255	255	254	254	253	252	252	251	250	249	249	248	247	247
130	292	292	291	291	290	290	290	289	289	289	289	288	288	287	286	285	284	284	283
135	326	326	326	325	325	325	325	325	325	324	323	322	321	321	320	319	319	318	318
140	357	357	357	356	356	356	356	355	355	355	354	353	353	352	352	352	351	351	351
145	384	384	384	384	384	384	384	385	385	384	383	382	381	380	380	380	379	379	379
150	410	410	409	409	409	409	408	408	408	407	406	406	405	405	404	404	404	404	404
155	430	430	430	430	430	429	429	428	428	428	427	427	427	427	427	427	427	426	426
160	446	446	446	445	445	446	446	446	446	446	445	444	444	443	443	442	442	442	442
165	459	459	459	459	459	459	458	458	458	457	457	456	456	456	456	456	456	456	456
170	469	469	469	470	470	470	470	470	470	470	469	469	469	469	469	469	469	468	468
175	474	474	474	474	473	473	473	473	473	473	473	473	473	472	472	472	472	472	472
180	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--3 UNIT: cd

C(DEG)\ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1092	1092	1091	1090	1090	1090	1089	1089	1088	1088	1088	1087	1087	1087	1087	1086	1086	1086	1086
5	1087	1086	1085	1085	1084	1084	1084	1084	1083	1083	1082	1082	1081	1081	1081	1081	1081	1081	1081
10	1072	1071	1070	1070	1069	1069	1069	1069	1068	1068	1067	1067	1067	1067	1067	1067	1067	1067	1067
15	1047	1047	1046	1045	1045	1045	1045	1045	1044	1044	1043	1042	1042	1042	1043	1043	1043	1043	1043
20	1013	1012	1012	1011	1012	1012	1012	1012	1011	1011	1010	1009	1009	1009	1010	1010	1011	1011	1011
25	968	967	967	966	967	967	967	967	967	966	965	965	965	965	965	966	967	967	967
30	910	910	909	909	909	909	909	910	909	909	908	908	908	908	909	909	910	910	910
35	838	837	837	836	836	836	836	837	837	837	837	837	837	837	837	837	838	837	837
40	746	746	745	744	744	744	744	744	745	747	749	750	751	750	750	749	748	747	746
45	601	600	599	596	591	587	584	583	590	598	606	613	615	612	607	601	596	593	591
50	448	448	446	441	433	425	418	414	424	436	448	458	457	446	432	417	404	400	398
55	348	346	341	334	324	314	305	300	307	317	328	337	339	332	324	315	307	304	304
60	230	231	231	234	237	241	243	244	237	228	220	213	213	218	225	233	240	242	242
65	167	169	172	174	174	174	172	169	156	144	132	123	124	134	147	161	174	179	182
70	136	136	135	132	128	122	117	112	111	110	111	112	114	116	119	123	126	129	132
75	93.2	92.5	92.1	92.5	93.8	95.3	96.9	98.5	99.6	101	101	101	101	99.6	98.2	96.8	95.7	95.9	96.5
80	68.9	68.3	67.8	67.2	66.7	66.4	66.2	66.4	67.7	69.2	70.5	71.7	71.6	70.5	69.0	67.4	66.0	65.5	65.3
85	44.4	44.5	44.5	44.3	43.9	43.5	43.1	42.7	42.6	42.6	42.6	42.7	42.8	42.9	43.0	43.2	43.5	44.2	45.0
90	5.06	4.97	4.89	4.86	4.87	4.92	4.99	5.09	5.23	5.39	5.57	5.77	5.97	6.17	6.38	6.61	6.85	7.17	7.49
95	65.2	64.8	64.4	63.9	63.4	62.9	62.4	62.0	61.7	61.5	61.4	61.4	61.4	61.6	61.9	62.1	62.3	62.4	62.4
100	87.8	87.5	87.1	86.5	85.7	84.9	84.1	83.4	83.1	83.0	82.9	82.9	83.0	83.2	83.4	83.6	83.8	83.8	83.8
105	113	113	112	112	111	111	110	109	109	109	109	108	108	108	108	108	108	108	108
110	141	141	140	140	139	139	139	139	138	138	137	137	136	136	136	136	136	136	136
115	174	173	172	171	171	170	169	168	168	168	168	169	168	168	168	168	167	168	169
120	209	208	208	207	207	207	207	206	206	206	205	205	205	204	204	203	203	204	204
125	246	246	245	244	243	243	242	241	242	242	242	242	242	242	242	241	241	241	242
130	283	282	282	281	280	280	279	278	278	278	278	278	278	277	277	277	277	278	278
135	318	317	317	316	316	315	314	313	313	312	312	312	312	312	312	312	312	312	312
140	350	350	349	349	348	348	347	347	347	346	346	346	346	345	345	344	344	344	344
145	379	379	379	378	377	377	376	375	376	376	377	377	377	376	375	374	373	374	374
150	403	403	403	403	402	401	401	400	401	401	402	402	402	402	401	400	399	400	401
155	426	426	425	425	425	425	425	424	424	424	423	423	422	422	422	421	421	421	422
160	441	441	441	441	441	440	440	440	440	440	440	439	439	439	439	439	439	439	439
165	456	456	456	455	455	454	454	454	453	453	454	454	454	454	454	454	454	454	454
170	468	468	467	467	467	466	466	466	465	465	465	465	464	464	464	465	465	465	465
175	472	472	472	473	473	474	474	474	474	473	472	472	471	471	472	472	472	472	472
180	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.63V I:0.1229A P:27.880W PF:0.9878 Freq:49.99Hz Lamp Flux:3859.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1086	1086	1086	1086	1086	1086	1085	1085	1085	1085	1085	1086	1087	1089	1091				
5	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1081	1082	1083	1085	1086				
10	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1068	1069	1071	1072				
15	1043	1043	1043	1044	1044	1044	1044	1044	1044	1044	1044	1045	1046	1047	1049				
20	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1013	1013	1014	1016	1017			
25	967	967	967	967	968	969	969	969	969	969	969	970	971	972	974				
30	910	910	910	911	912	913	913	913	912	912	912	912	913	915	917				
35	837	837	837	839	840	842	843	842	841	840	839	839	841	843	845				
40	746	745	747	749	751	754	755	754	751	749	747	747	749	752	755				
45	590	591	596	605	615	623	629	623	614	605	597	595	598	605	615				
50	399	402	408	418	427	435	441	433	423	414	406	405	412	423	439				
55	305	307	311	317	323	327	328	315	301	287	277	277	287	304	328				
60	240	237	231	222	213	205	199	202	208	215	222	228	230	231	231				
65	182	179	171	159	146	134	125	128	134	142	150	156	158	160	161				
70	135	136	136	134	131	127	122	114	106	99.3	94.9	95.1	101	109	122				
75	97.4	98.6	100	102	104	105	105	102	98.6	94.9	91.7	90.4	91.3	93.5	97.0				
80	65.3	65.7	66.4	67.6	68.8	70.0	71.0	71.1	71.0	70.7	70.2	69.6	69.0	68.2	67.3				
85	45.7	46.3	46.4	46.1	45.6	45.1	44.5	44.1	43.8	43.6	43.6	43.8	44.2	44.7	45.5				
90	7.79	8.06	8.21	8.23	8.23	8.23	8.25	8.47	8.71	8.94	9.15	9.26	9.27	9.22	9.10				
95	62.3	62.3	62.3	62.4	62.5	62.7	62.9	63.4	63.9	64.4	64.9	65.3	65.7	66.0	66.2				
100	83.9	83.9	83.9	84.1	84.2	84.5	84.8	85.4	86.1	86.8	87.5	88.1	88.5	88.8	89.0				
105	109	109	109	109	110	110	110	111	111	112	113	113	114	114	114				
110	137	137	137	138	138	138	138	139	139	140	141	141	142	142	142				
115	169	170	171	171	171	171	171	171	172	172	173	173	174	174	175				
120	204	205	205	205	205	205	205	206	207	208	209	210	210	211	212				
125	242	243	243	243	243	243	243	244	245	246	246	247	248	248	249				
130	279	279	279	279	279	279	279	280	282	283	284	285	286	286	287				
135	312	313	313	313	313	313	314	315	315	316	317	318	319	319	320				
140	345	345	346	346	346	347	347	348	349	350	351	352	352	352	352				
145	375	376	377	377	378	378	378	378	378	378	378	378	379	379	380				
150	402	403	403	402	402	401	401	401	402	402	403	403	403	404	404				
155	422	423	423	423	422	422	422	423	424	425	426	426	426	426	426				
160	439	439	439	440	440	440	440	440	441	441	441	442	442	443	444				
165	454	454	454	455	456	456	457	457	456	456	456	455	455	455	455				
170	465	465	465	465	466	466	466	466	467	467	467	467	467	467	467				
175	472	472	472	472	471	471	471	472	472	472	473	473	473	474	474				
180	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks: