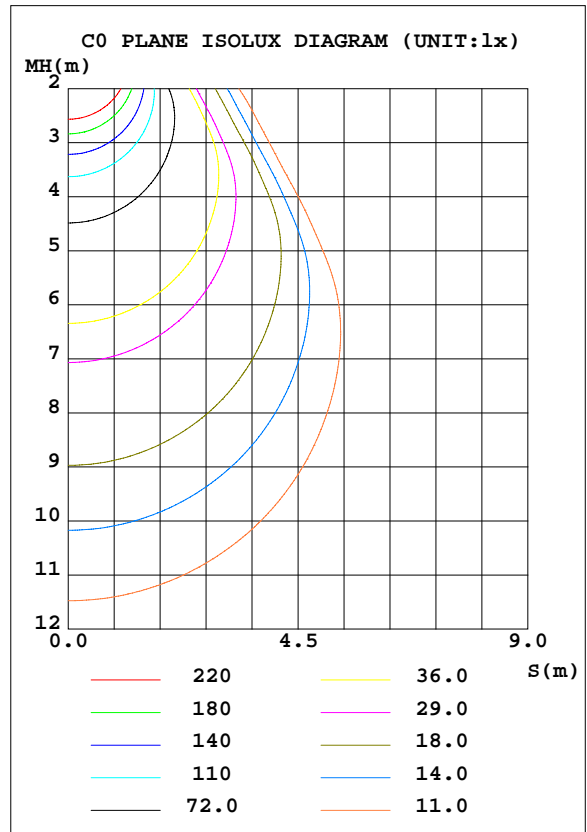
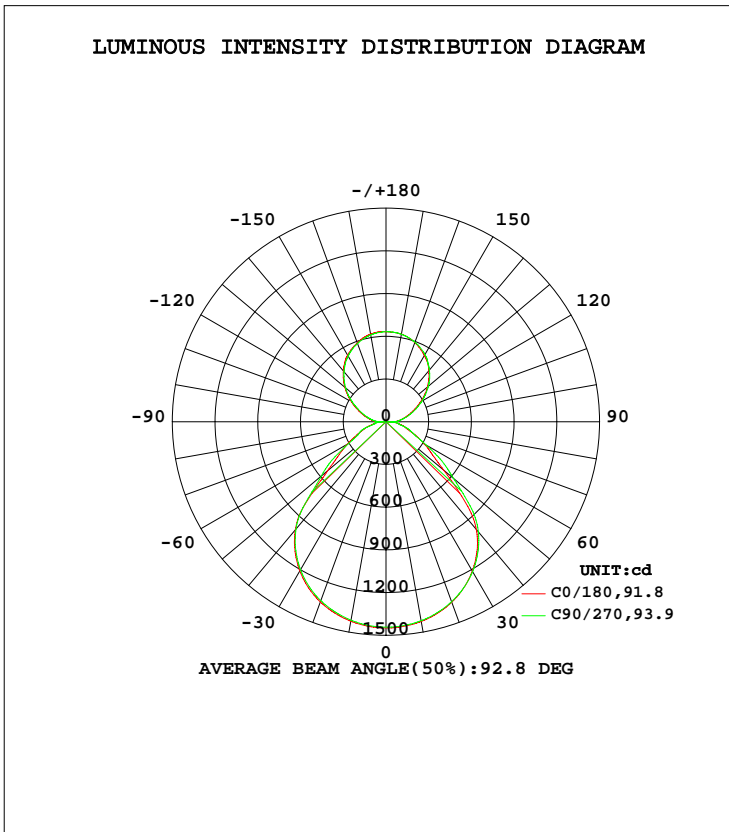


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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: 138.40 lm/W			
MODEL		I <sub>max</sub> (cd)	1448	S/MH(C0/180)	1.24
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	5129.4	η UP, DN(C0-180)	19.0, 31.6
NOMINAL FLUX(lm)	5129.36	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	18.4, 30.9
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:

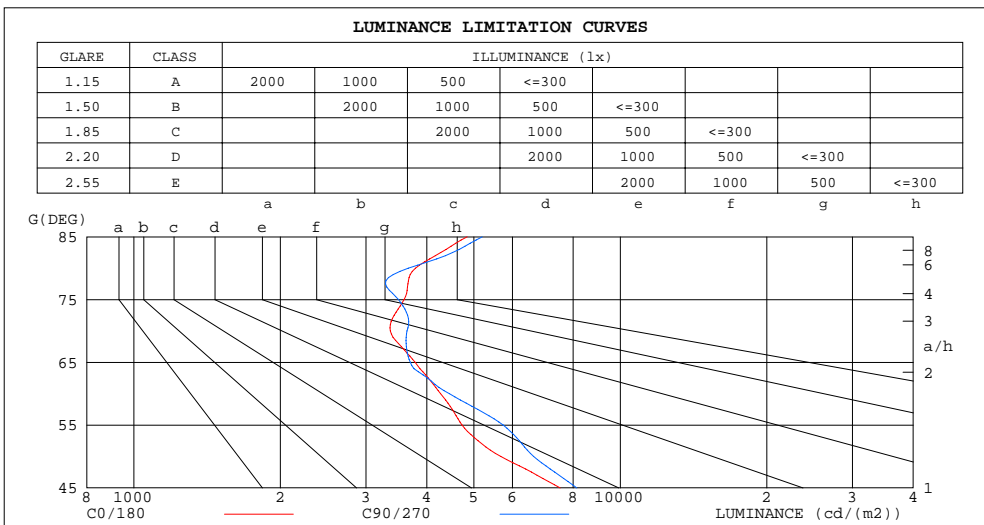
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	1424	1421	1419	1416	1422	1417	1415	1416	0- 10	136.6	136.6	2.66,2.66
20	1349	1349	1346	1341	1347	1341	1338	1338	10- 20	391.4	528.0	10.3,10.3
30	1212	1214	1216	1210	1210	1202	1200	1203	20- 30	591.1	1119	21.8,21.8
40	987.6	993.4	1009	1005	990.3	975.4	983.1	989.2	30- 40	693.4	1812	35.3,35.3
50	529.1	528.1	618.3	620.4	536.3	502.6	593.0	605.1	40- 50	605.6	2418	47.1,47.1
60	309.6	304.1	322.9	295.6	311.0	290.0	297.7	274.4	50- 60	380.2	2798	54.6,54.6
70	167.0	142.2	180.7	152.9	176.3	125.0	185.7	169.6	60- 70	214.1	3012	58.7,58.7
80	95.45	100.0	92.25	95.40	87.64	85.71	84.90	95.64	70- 80	136.5	3149	61.4,61.4
90	11.18	13.89	12.29	9.880	8.101	6.031	5.661	7.895	80- 90	61.46	3210	62.6,62.6
100	118.5	122.0	123.4	122.5	117.2	110.9	109.3	112.3	90-100	93.37	3304	64.4,64.4
110	189.8	197.5	200.0	196.3	189.1	181.4	179.0	183.5	100-110	160.6	3464	67.5,67.5
120	281.3	290.1	292.0	288.4	278.5	272.3	270.0	274.1	110-120	231.5	3696	72.1,72.1
130	381.2	386.7	388.2	384.7	376.7	371.1	370.6	375.3	120-130	295.6	3991	77.8,77.8
140	469.5	471.1	474.5	473.4	465.9	462.3	458.9	462.0	130-140	327.7	4319	84.2,84.2
150	539.0	544.2	546.9	543.5	539.7	531.9	532.8	537.0	140-150	316.4	4635	90.4,90.4
160	593.4	595.5	595.5	595.1	589.4	589.1	585.3	590.1	150-160	261.8	4897	95.5,95.5
170	625.0	623.2	624.9	626.7	625.5	622.4	619.5	621.0	160-170	172.3	5069	98.8,98.8
180	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	170-180	59.94	5129	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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	4844	5202
80	3791	3664
75	3592	3499
70	3367	3643
65	3787	3701
60	4270	4454
55	4728	5743
50	5677	6634
45	7524	8141

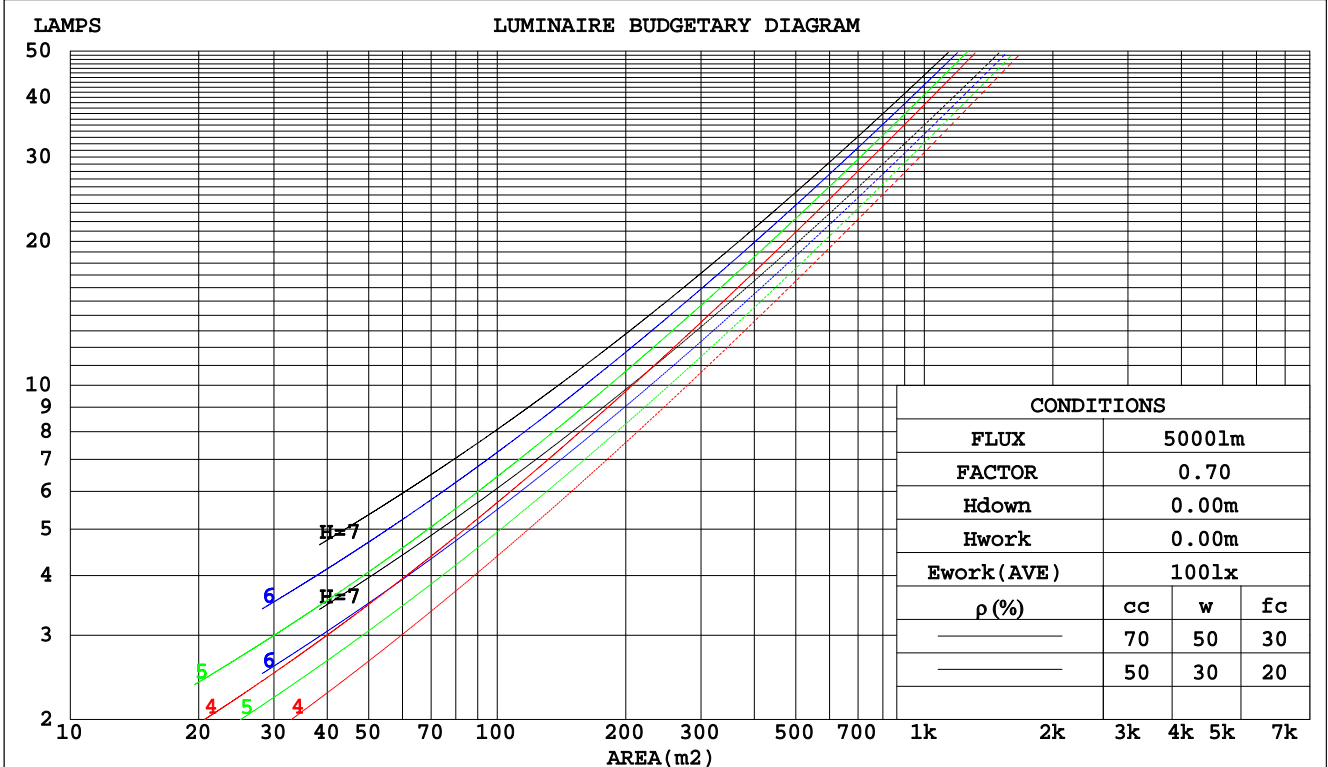
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-23

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	20%			20%			20%			20%			20%			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	.50	.47
3.0	.76	.69	.63	.72	.66	.61	.64	.59	.55	.56	.52	.49	.49	.46	.44	.40
4.0	.68	.60	.54	.64	.57	.52	.57	.52	.47	.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	.33	.30	.34	.30	.27	.25
8.0	.46	.38	.33	.43	.36	.32	.39	.33	.29	.35	.30	.27	.31	.28	.25	.22
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	.20	.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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	.215	.124	.039	.184	.106	.034	.155	.090	.029	
2.0	.250	.137	.042	.233	.129	.040	.202	.113	.035	.174	.098	.031	.147	.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	.065	.020	
6.0	.188	.094	.027	.177	.089	.026	.155	.079	.023	.134	.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	.476	.476	.476	.406	.406	.406	.277	.277	.277	.159	.159	.159	.051	.051	.051	
1.0	.465	.444	.425	.398	.381	.366	.272	.262	.253	.157	.152	.147	.050	.049	.048	
2.0	.456	.421	.392	.391	.363	.339	.268	.251	.237	.154	.146	.139	.050	.047	.045	
3.0	.448	.405	.371	.384	.349	.321	.264	.243	.225	.152	.142	.133	.049	.046	.044	
4.0	.441	.392	.355	.378	.339	.309	.260	.236	.217	.150	.138	.129	.048	.045	.042	
5.0	.434	.383	.345	.373	.331	.300	.257	.231	.212	.149	.136	.126	.048	.044	.041	
6.0	.428	.375	.337	.368	.325	.293	.254	.227	.208	.147	.134	.123	.047	.044	.041	
7.0	.422	.368	.331	.363	.319	.289	.251	.224	.204	.146	.132	.122	.047	.043	.040	
8.0	.416	.363	.327	.358	.315	.285	.248	.221	.202	.144	.130	.120	.047	.043	.040	
9.0	.411	.359	.323	.354	.311	.282	.245	.219	.200	.143	.129	.119	.046	.042	.040	
10.0	.406	.355	.320	.350	.308	.280	.243	.217	.199	.142	.128	.119	.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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	15.5	16.5	16.2	17.2	18.1	16.0	17.0	16.7	17.7	18.6
3H	16.0	16.9	16.8	17.7	18.6	16.7	17.6	17.4	18.3	19.2
4H	16.5	17.4	17.3	18.1	19.1	17.0	17.9	17.8	18.6	19.6
6H	17.0	17.8	17.8	18.5	19.5	17.3	18.1	18.1	18.9	19.8
8H	17.2	18.0	18.0	18.7	19.7	17.5	18.3	18.3	19.1	20.0
12H	17.4	18.1	18.2	18.9	19.9	17.7	18.4	18.5	19.2	20.2
4H 2H	15.6	16.4	16.3	17.2	18.1	16.0	16.8	16.8	17.6	18.5
3H	16.3	17.0	17.1	17.8	18.8	16.9	17.6	17.7	18.4	19.4
4H	17.0	17.7	17.9	18.5	19.5	17.4	18.1	18.3	18.9	19.9
6H	17.7	18.2	18.5	19.1	20.1	17.8	18.4	18.7	19.2	20.3
8H	18.0	18.5	18.9	19.4	20.5	18.2	18.7	19.0	19.5	20.6
12H	18.3	18.8	19.2	19.7	20.8	18.5	18.9	19.4	19.8	20.9
8H 4H	17.2	17.7	18.1	18.6	19.6	17.5	18.0	18.4	18.9	20.0
6H	18.1	18.5	19.0	19.4	20.5	18.1	18.5	19.0	19.4	20.5
8H	18.6	18.9	19.5	19.8	21.0	18.6	18.9	19.5	19.8	21.0
12H	19.0	19.4	20.0	20.3	21.4	19.1	19.4	20.0	20.3	21.4
12H 4H	17.2	17.6	18.1	18.5	19.6	17.5	18.0	18.4	18.8	19.9
6H	18.1	18.5	19.0	19.4	20.5	18.2	18.5	19.1	19.4	20.6
8H	18.7	19.0	19.6	19.9	21.1	18.7	19.0	19.6	19.9	21.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 0.8 / - 0.7					+ 0.8 / - 0.6				

CIE Pub.117, 5129 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.7)

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

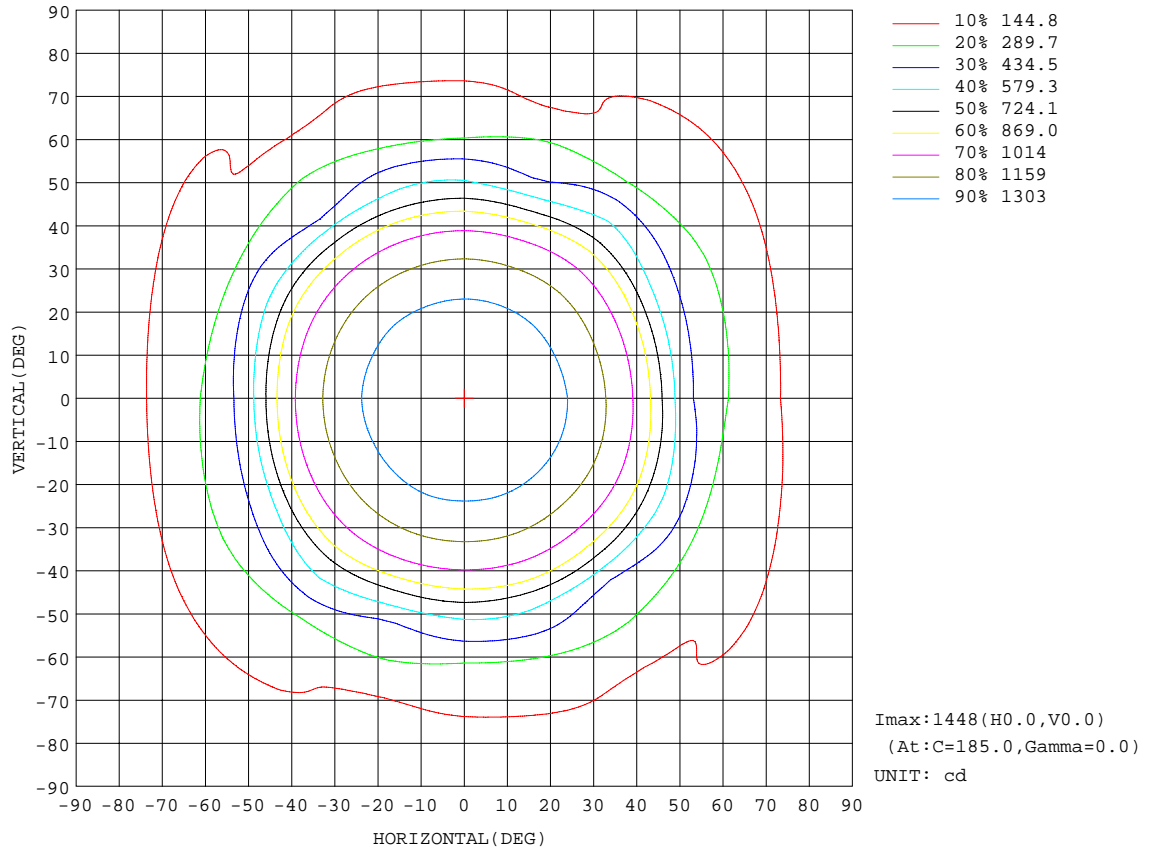
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	41	35	49	40	34	46	38	33	26
0.80	61	50	44	58	49	43	54	46	40	32
1.00	69	58	51	65	56	50	60	53	47	37
1.25	75	65	58	72	63	56	65	58	53	41
1.50	80	70	64	76	67	61	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	99	94	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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

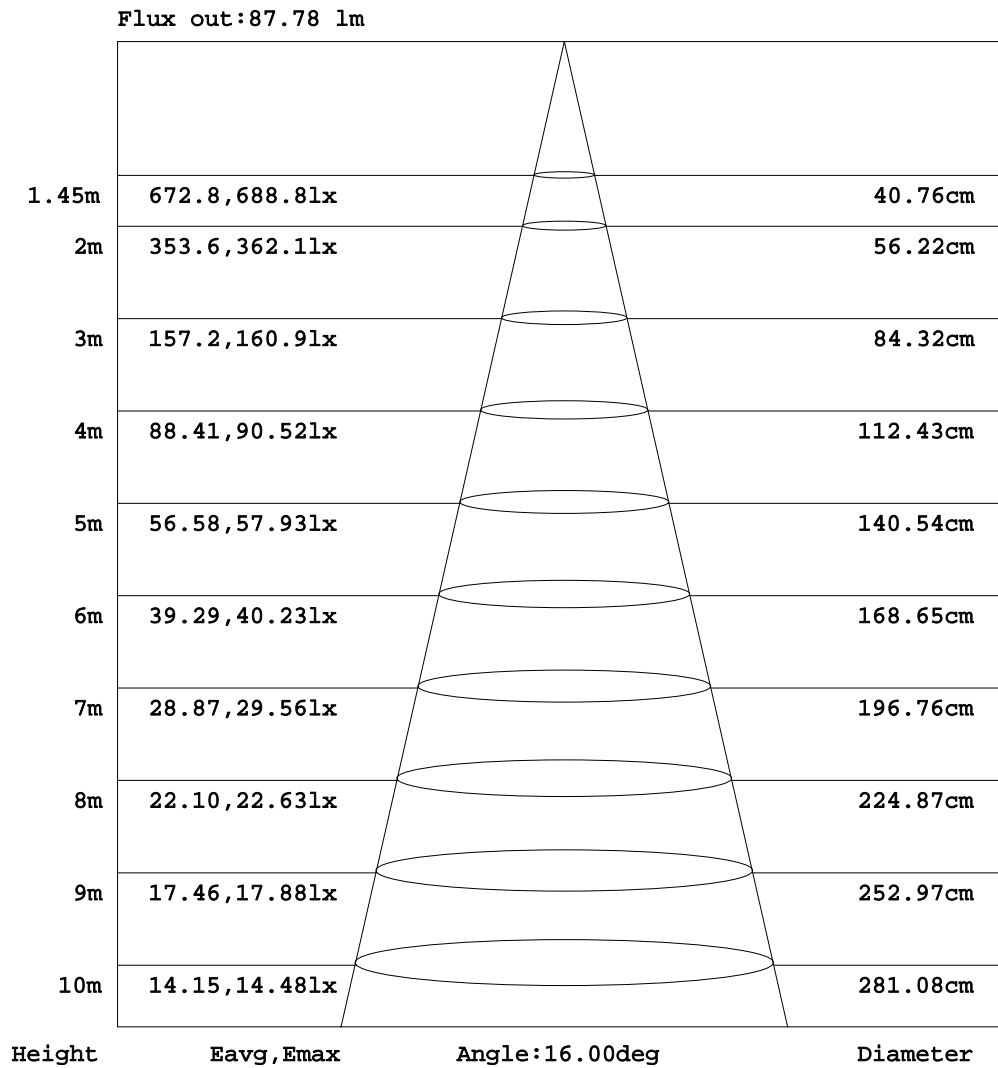


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-05-23

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:



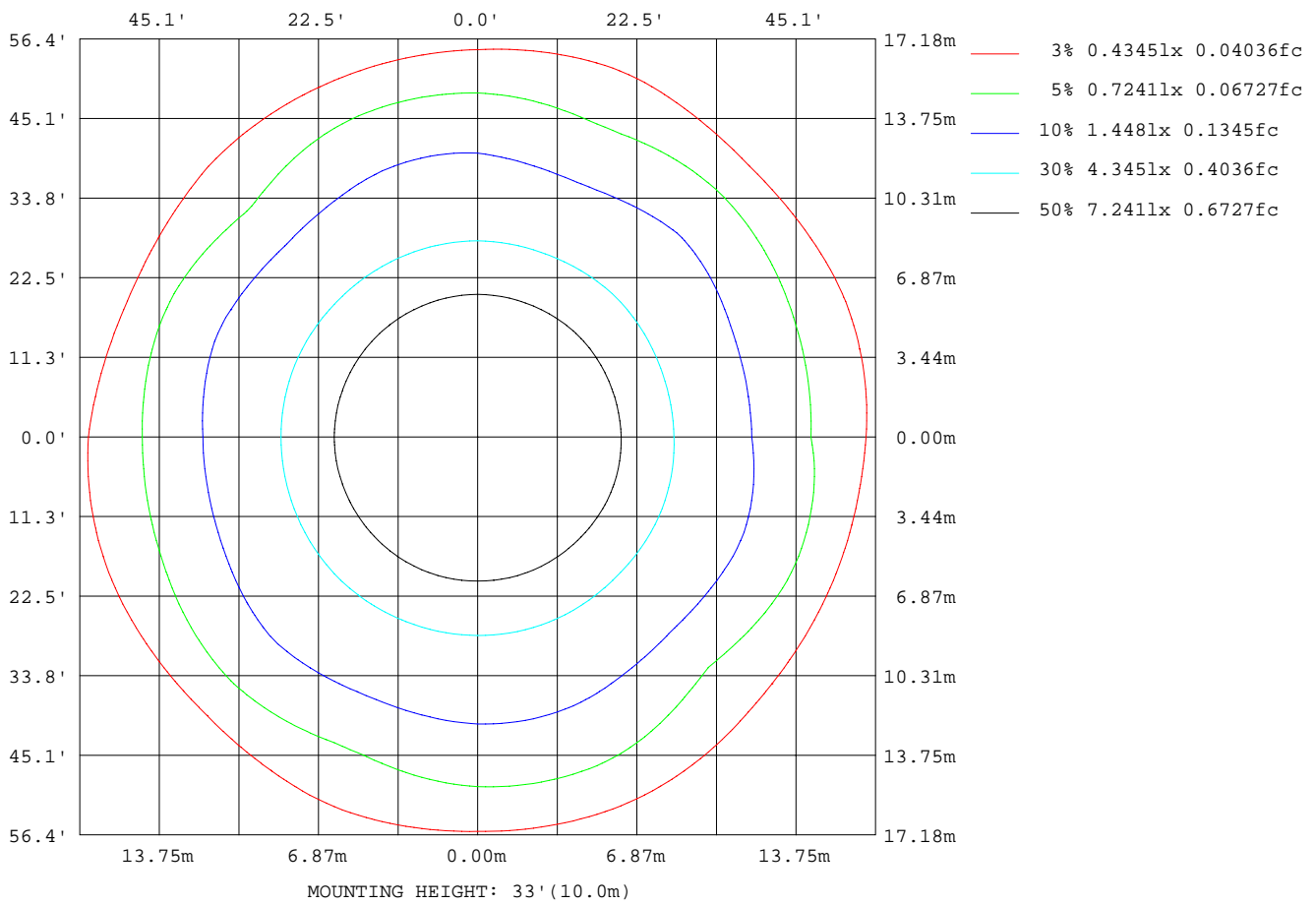
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*82	SERIAL No.:
MFR.:	SUR.:3.14*0.215*0.215	Shielding Angle:

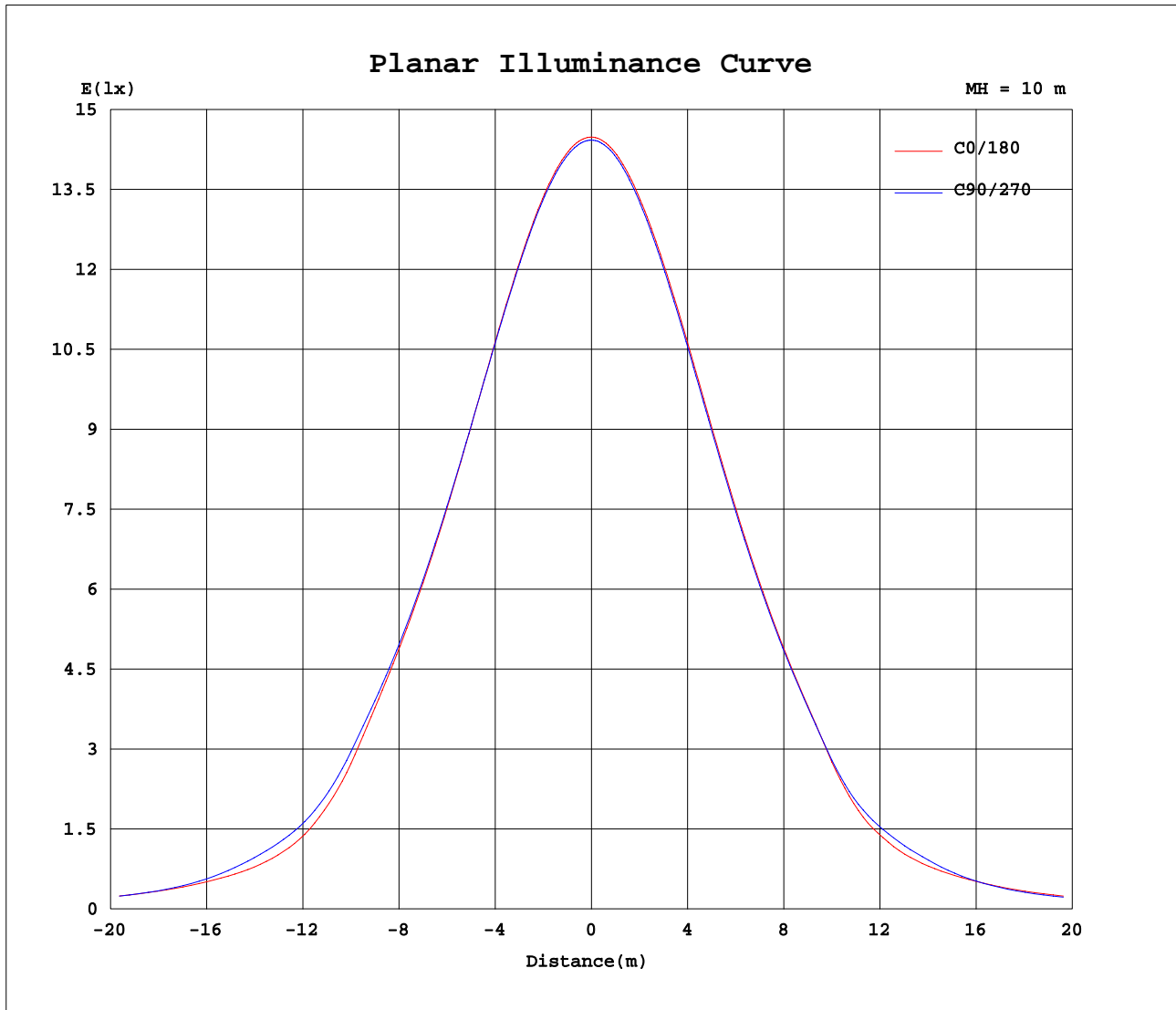
AvgL	cd/m2
L_0~180(65)av	3787
L_0~180(75)av	3552
L_0~180(85)av	4792
L_90~270(65)av	3631
L_90~270(75)av	3394
L_90~270(85)av	4939
L_45(65)av	3068
L_45(75)av	3505
L_45(85)av	4604

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

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	1448	1448	1447	1447	1446	1446	1446	1445	1445	1445	1445	1444	1444	1444	1443	1443	1443	1443	1443
5	1443	1442	1442	1442	1441	1441	1440	1440	1440	1439	1439	1439	1439	1438	1438	1438	1437	1437	1437
10	1424	1424	1424	1424	1423	1423	1423	1422	1422	1421	1421	1421	1421	1421	1421	1420	1420	1419	1419
15	1393	1393	1393	1393	1393	1393	1393	1393	1392	1392	1392	1392	1392	1391	1391	1390	1390	1389	1389
20	1349	1349	1349	1350	1350	1350	1350	1349	1349	1349	1349	1349	1349	1348	1348	1347	1347	1346	1346
25	1289	1290	1291	1292	1292	1292	1292	1291	1291	1291	1291	1291	1291	1291	1291	1290	1290	1289	1289
30	1212	1214	1216	1217	1218	1218	1217	1216	1215	1214	1215	1216	1216	1217	1217	1217	1217	1216	1216
35	1114	1118	1120	1122	1124	1123	1122	1121	1120	1118	1119	1121	1123	1124	1125	1125	1125	1125	1124
40	988	994	998	1001	1003	1003	1001	998	995	993	996	999	1002	1006	1008	1009	1010	1009	1009
45	771	791	806	817	823	823	816	808	800	794	801	809	820	829	836	838	839	837	835
50	529	553	571	582	588	583	570	554	539	528	538	553	571	589	602	610	615	618	618
55	393	415	430	439	442	434	415	396	378	366	383	406	431	457	474	481	484	483	478
60	310	297	287	280	276	277	281	288	296	304	311	317	322	327	328	327	326	324	323
65	232	205	184	170	162	164	175	189	204	219	226	230	232	233	233	232	230	228	227
70	167	164	161	158	155	151	147	144	142	142	150	159	169	178	184	186	186	184	181
75	135	142	147	150	151	149	144	138	133	128	128	129	131	133	134	134	133	132	131
80	95.4	98.2	100	102	103	103	103	103	101	100	97.9	95.6	93.4	91.4	90.5	90.5	90.8	91.5	92.3
85	61.2	63.4	65.1	66.3	67.0	66.9	66.1	65.1	64.0	63.0	63.0	63.3	63.7	64.2	64.8	65.3	65.6	65.8	65.7
90	11.2	11.2	11.4	11.6	11.8	12.2	12.6	13.1	13.5	13.9	14.1	14.2	14.2	14.1	13.9	13.5	13.1	12.7	12.3
95	88.4	88.6	88.9	89.2	89.4	89.7	90.0	90.3	90.5	90.8	90.8	90.9	90.9	90.9	91.0	91.2	91.5	91.7	91.9
100	118	119	119	119	120	120	121	121	122	122	122	122	123	123	123	123	123	123	123
105	153	153	154	154	155	155	156	157	157	158	158	158	159	159	159	159	160	160	160
110	190	191	192	193	193	194	195	196	197	198	198	198	198	198	199	199	199	200	200
115	232	233	235	236	237	238	239	240	241	242	243	243	243	243	243	244	244	244	244
120	281	283	284	285	286	287	288	289	289	290	291	291	292	292	292	292	292	292	292
125	332	333	334	334	335	336	337	337	338	339	340	341	341	342	342	342	341	341	341
130	381	381	382	382	383	383	384	385	386	387	388	388	389	390	390	389	389	389	388
135	427	427	427	427	428	428	429	430	430	431	432	433	433	434	434	434	434	434	434
140	470	470	471	471	471	472	471	471	471	471	472	473	474	475	476	476	475	475	475
145	509	509	509	509	509	509	508	508	508	508	509	510	511	512	513	513	513	512	512
150	539	539	539	540	540	541	542	542	543	544	545	545	545	545	546	546	546	547	547
155	567	567	567	567	568	569	570	571	572	573	574	574	574	574	574	574	574	574	573
160	593	593	593	593	594	594	594	595	595	595	596	595	595	595	595	595	595	595	595
165	611	611	611	611	612	612	613	613	614	614	614	613	612	611	611	611	611	612	612
170	625	625	625	624	624	624	624	624	623	623	623	623	623	623	623	623	624	624	625
175	631	630	629	628	628	628	628	628	629	629	629	629	629	629	630	630	630	631	631
180	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	1442	1442	1442	1442	1442	1442	1442	1441	1441	1441	1441	1440	1441	1442	1443	1445	1447	1448	1448
5	1437	1437	1437	1436	1436	1436	1436	1436	1435	1435	1434	1434	1434	1435	1437	1439	1440	1442	1441
10	1418	1418	1418	1419	1418	1418	1417	1417	1416	1416	1416	1415	1415	1416	1418	1419	1421	1422	1422
15	1388	1388	1389	1388	1388	1387	1386	1386	1385	1384	1384	1384	1384	1385	1386	1388	1389	1391	1390
20	1346	1346	1346	1346	1346	1345	1344	1343	1341	1341	1340	1340	1341	1341	1343	1345	1346	1347	1346
25	1289	1289	1290	1290	1289	1288	1286	1285	1284	1283	1283	1282	1282	1283	1284	1285	1286	1287	1286
30	1216	1216	1216	1216	1215	1214	1212	1211	1210	1209	1208	1208	1208	1208	1209	1209	1210	1210	1209
35	1124	1124	1123	1123	1122	1121	1120	1119	1118	1116	1115	1114	1113	1113	1113	1113	1113	1114	1113
40	1008	1007	1006	1005	1004	1005	1005	1005	1005	1003	1000	998	995	993	992	991	991	990	990
45	828	820	813	807	808	816	824	831	837	831	823	813	803	794	789	784	781	780	785
50	612	604	596	589	590	599	608	616	620	609	593	576	560	547	541	537	535	536	545
55	461	442	425	410	409	423	439	455	467	461	450	437	423	413	407	404	401	401	405
60	326	330	333	335	331	322	312	303	296	299	305	312	319	323	323	321	317	311	296
65	230	233	234	234	225	209	194	180	170	181	195	212	229	239	243	243	239	232	215
70	174	166	158	151	147	147	148	150	153	157	162	167	171	175	176	177	177	176	174
75	130	129	127	127	127	129	131	133	134	133	131	129	127	127	128	129	130	132	133
80	92.8	93.3	93.8	94.2	94.8	95.4	95.7	95.8	95.4	93.3	91.0	88.6	86.5	85.3	85.3	85.8	86.6	87.6	89.3
85	64.8	63.6	62.3	61.0	60.1	59.5	59.1	58.8	58.5	58.3	58.2	58.2	58.2	58.5	59.1	59.6	59.9	59.9	58.7
90	12.1	11.9	11.7	11.6	11.3	10.9	10.6	10.2	9.88	9.73	9.61	9.51	9.40	9.23	8.99	8.72	8.42	8.10	7.72
95	92.0	92.0	92.1	92.1	92.0	92.0	91.9	91.8	91.6	91.3	90.9	90.5	90.1	89.6	89.2	88.7	88.2	87.6	86.9
100	123	123	123	123	123	123	123	123	122	122	121	121	120	119	119	118	118	117	116
105	160	160	159	159	159	159	158	158	158	157	156	156	155	154	154	153	152	151	150
110	200	200	199	199	198	198	197	197	196	196	195	194	194	193	192	191	190	189	188
115	244	244	243	243	242	242	241	241	240	239	239	238	237	236	235	234	233	232	231
120	292	292	291	291	291	290	290	289	288	288	287	286	285	284	282	281	280	279	278
125	341	341	341	341	340	340	339	338	337	337	336	335	334	333	332	331	330	329	328
130	388	388	388	388	388	387	386	385	385	384	384	383	383	382	381	379	378	377	376
135	434	433	433	433	433	432	432	431	431	431	430	429	429	428	426	425	424	423	422
140	475	475	475	475	475	475	474	474	473	473	472	472	471	470	469	468	467	466	465
145	513	513	513	513	513	511	510	509	508	508	509	509	510	510	509	508	507	506	505
150	547	547	547	546	546	545	545	544	544	543	542	541	541	540	540	540	540	540	539
155	574	574	574	573	573	573	572	572	571	570	569	569	568	567	567	567	567	567	566
160	596	596	596	596	597	596	596	596	595	594	593	593	592	591	591	590	590	589	589
165	612	613	613	613	614	614	614	614	614	614	613	613	613	612	612	612	612	612	611
170	625	625	626	626	626	626	626	627	627	627	626	626	626	626	626	626	626	625	625
175	632	632	632	632	632	632	633	633	633	633	633	633	633	633	633	633	633	633	633
180	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	1448	1447	1447	1446	1446	1445	1445	1445	1445	1444	1444	1444	1443	1443	1443	1443	1443	1442	1442
5	1441	1440	1439	1438	1438	1438	1438	1437	1437	1437	1436	1436	1436	1436	1436	1436	1436	1435	1435
10	1421	1420	1419	1418	1418	1417	1417	1417	1416	1416	1416	1415	1415	1415	1415	1415	1415	1415	1415
15	1389	1388	1387	1386	1386	1385	1385	1385	1384	1383	1382	1382	1381	1382	1382	1382	1382	1382	1382
20	1345	1344	1342	1341	1341	1341	1342	1341	1340	1339	1338	1337	1337	1337	1337	1337	1338	1338	1338
25	1285	1284	1282	1281	1281	1281	1280	1279	1278	1277	1277	1276	1276	1277	1277	1277	1277	1277	1277
30	1208	1207	1205	1204	1203	1203	1202	1202	1201	1200	1199	1199	1199	1199	1200	1200	1200	1200	1199
35	1111	1110	1108	1107	1106	1104	1103	1102	1102	1101	1101	1101	1102	1102	1103	1104	1104	1103	1102
40	990	989	988	986	983	981	978	975	975	976	977	978	979	981	982	983	983	981	979
45	791	796	800	797	787	776	765	757	759	764	770	777	783	787	790	791	790	780	769
50	555	563	570	564	548	530	514	503	514	531	550	569	584	591	596	596	593	575	556
55	410	414	416	408	393	377	364	355	369	388	410	431	446	452	455	455	451	438	423
60	280	265	252	249	257	267	279	290	292	292	291	289	289	290	292	295	298	305	312
65	196	177	161	156	162	172	183	195	200	205	208	211	213	216	217	218	218	217	215
70	172	168	163	155	145	136	129	125	134	146	159	173	182	187	189	189	186	173	159
75	135	136	136	135	132	128	125	122	121	121	121	122	123	123	123	123	123	123	124
80	90.9	92.3	93.3	93.1	91.5	89.6	87.6	85.7	85.0	84.6	84.4	84.4	84.3	84.2	84.3	84.5	84.9	85.8	86.9
85	57.2	55.7	54.2	53.3	53.0	52.9	53.0	53.2	53.0	52.9	52.9	53.2	54.0	55.4	56.8	58.1	59.1	58.7	58.1
90	7.33	6.96	6.62	6.38	6.25	6.16	6.09	6.03	5.91	5.79	5.69	5.60	5.54	5.52	5.53	5.58	5.66	5.83	6.03
95	86.2	85.4	84.7	84.0	83.3	82.7	82.2	81.7	81.3	81.1	80.9	80.8	80.8	80.8	81.0	81.2	81.4	81.6	81.9
100	115	114	113	113	112	112	111	111	110	110	110	109	109	109	109	109	109	110	110
105	149	148	147	146	146	145	145	145	145	145	144	144	144	143	143	142	142	143	143
110	187	186	184	183	183	182	182	181	182	182	183	183	183	182	181	180	179	179	180
115	230	229	228	227	227	226	225	225	225	225	225	226	225	224	223	222	221	222	222
120	277	276	276	275	274	274	273	272	272	272	272	272	272	271	271	270	270	270	271
125	327	326	325	324	323	323	322	321	321	320	320	319	319	320	321	321	322	322	322
130	375	374	374	373	373	372	372	371	370	369	368	368	368	368	369	370	371	371	371
135	421	420	419	419	419	420	421	421	420	418	416	415	414	415	415	416	417	417	418
140	464	463	463	462	462	462	462	462	462	461	461	460	460	459	459	459	459	459	460
145	504	503	502	502	501	500	499	498	499	499	499	500	500	500	499	499	498	499	499
150	538	537	536	535	534	533	532	532	533	535	536	537	537	536	535	534	533	533	534
155	565	564	563	563	562	562	562	562	563	564	565	566	566	565	563	562	561	562	562
160	588	588	587	587	588	588	589	589	589	590	590	589	589	588	587	586	585	586	586
165	611	610	609	609	609	608	608	608	608	608	608	608	608	607	607	606	605	605	605
170	624	623	623	622	622	622	622	622	622	622	622	622	621	621	620	620	619	619	619
175	632	631	631	630	630	630	630	630	630	630	630	629	629	629	629	629	629	629	629
180	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632

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:229.64V I:0.1657A P:37.063W PF:0.9742 Freq:49.99Hz Lamp Flux:5129.36x1 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	1442	1442	1442	1442	1442	1441	1441	1441	1441	1440	1441	1441	1442	1444	1446				
5	1435	1435	1435	1435	1435	1435	1435	1435	1435	1434	1434	1434	1435	1436	1438	1440			
10	1414	1414	1415	1415	1415	1415	1415	1416	1415	1415	1415	1415	1416	1417	1419	1421			
15	1382	1382	1382	1382	1383	1383	1383	1383	1382	1382	1383	1384	1385	1387	1390				
20	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1339	1341	1343	1346				
25	1277	1276	1276	1277	1278	1278	1279	1278	1278	1278	1278	1279	1281	1283	1286				
30	1199	1198	1199	1200	1201	1202	1203	1203	1202	1202	1202	1202	1204	1206	1208				
35	1101	1101	1101	1103	1105	1107	1108	1107	1106	1105	1105	1105	1106	1108	1111				
40	976	975	976	979	983	986	989	987	985	982	979	978	979	981	984				
45	759	751	752	764	777	790	800	795	786	776	767	761	760	761	765				
50	537	523	525	544	566	588	605	597	583	567	550	537	532	528	527				
55	409	398	398	410	424	438	450	446	439	430	419	411	405	400	396				
60	317	321	317	306	294	283	274	282	292	303	314	321	322	320	316				
65	212	208	200	189	179	171	167	180	196	213	229	240	243	243	239				
70	146	135	132	139	148	159	170	175	179	181	183	182	181	178	173				
75	124	125	128	132	136	140	143	142	140	138	136	134	134	134	134				
80	88.1	89.4	90.9	92.5	93.9	95.0	95.6	94.2	92.4	90.6	89.1	88.6	89.3	90.6	92.7				
85	57.3	56.6	56.3	56.7	57.1	57.6	58.1	57.9	57.7	57.5	57.4	57.6	58.2	59.0	60.0				
90	6.26	6.52	6.78	7.04	7.31	7.60	7.90	8.20	8.53	8.86	9.21	9.57	9.95	10.3	10.8				
95	82.2	82.5	82.7	82.9	83.1	83.4	83.8	84.5	85.3	86.1	86.9	87.5	87.9	88.1	88.3				
100	110	111	111	111	112	112	112	113	114	115	116	117	118	118	118				
105	144	145	145	145	146	146	146	147	147	148	149	150	151	151	152				
110	181	182	183	183	183	183	184	184	184	185	186	186	187	188	189				
115	223	224	225	225	226	226	226	227	228	228	229	230	230	231	232				
120	271	272	272	273	273	274	274	275	275	276	277	278	278	279	280				
125	321	321	321	322	323	323	324	325	326	327	328	328	329	330	331				
130	371	371	372	373	374	375	375	375	376	376	376	376	377	378	380				
135	418	418	419	419	419	419	420	420	421	421	422	423	424	425	426				
140	460	461	461	461	461	462	462	463	464	466	467	468	469	469	469				
145	500	500	501	501	501	501	501	501	501	501	502	503	504	505	507				
150	535	536	537	537	537	537	537	537	537	538	538	538	538	538	539				
155	563	564	565	565	566	566	566	567	567	567	567	567	567	567	567				
160	587	588	588	589	589	590	590	591	591	592	593	593	593	593	593				
165	605	605	605	606	607	608	609	610	610	610	611	611	611	611	611				
170	619	619	620	620	620	621	621	622	622	623	623	624	624	625	625				
175	629	629	629	629	629	629	629	629	629	629	629	629	629	629	630				
180	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632				

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: