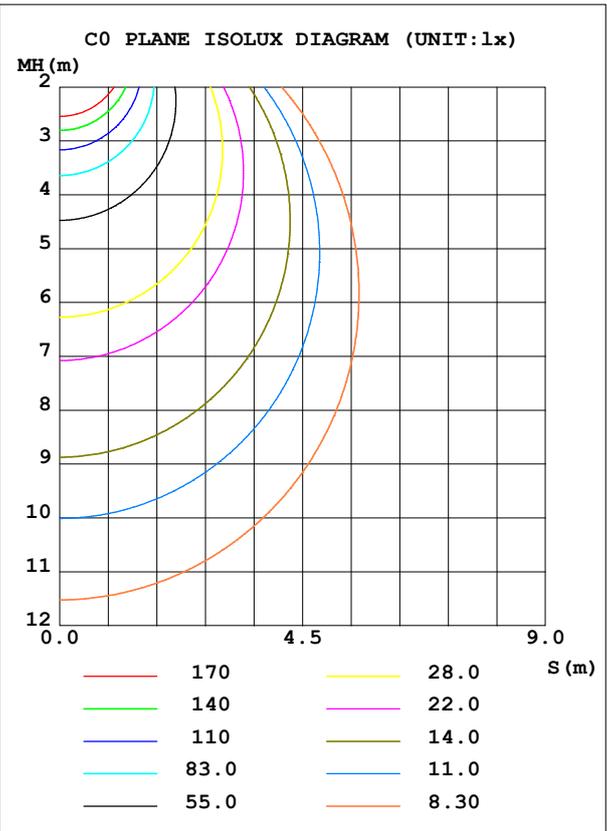
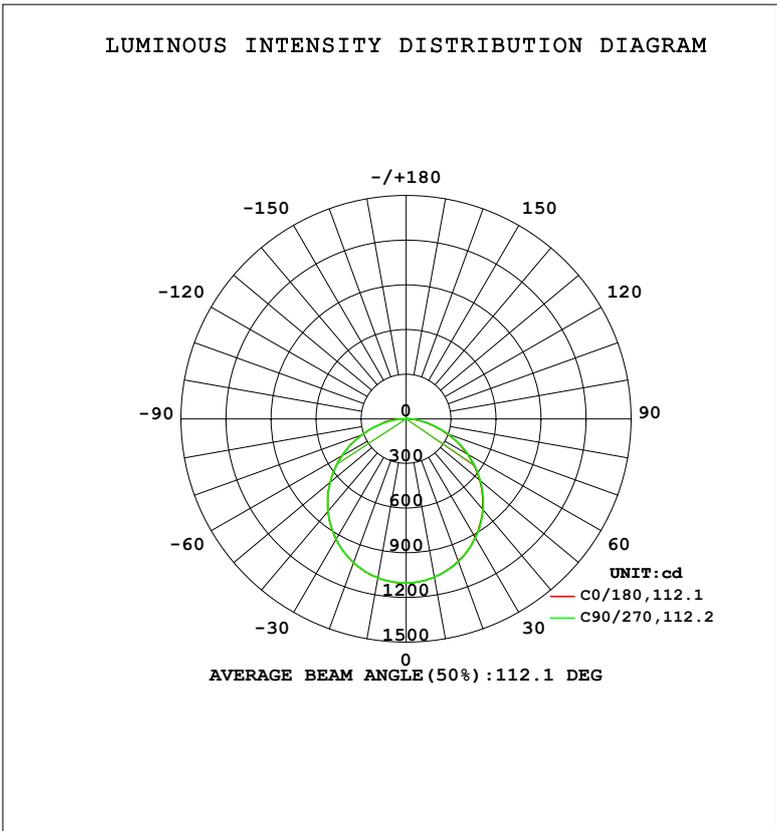


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2440LAJUDSN_ 3500K	Imax (cd)	1102	S/MH (C0/180)	1.26
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3164.5	η UP, DN (C0-180)	0.1,49.1
NOMINAL FLUX (lm)	3164.46	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,50.7
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	99.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

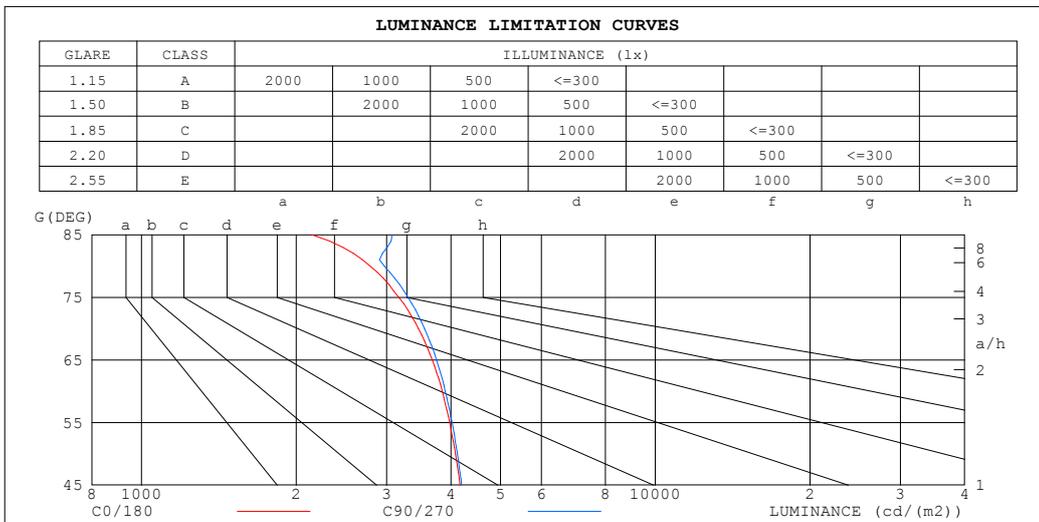
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1080	1081	1084	1084					0- 10	104.3	104.3	3.29,3.29
20	1018	1020	1027	1027					10- 20	298.3	402.6	12.7,12.7
30	921.3	924.6	934.9	933.7					20- 30	451.6	854.2	27,27
40	793.7	798.1	811.0	809.2					30- 40	543.8	1398	44.2,44.2
50	641.5	647.0	662.5	659.6					40- 50	563.4	1961	62,62
60	470.3	476.7	493.6	489.9					50- 60	508.8	2470	78.1,78.1
70	289.2	297.2	314.3	309.9					60- 70	388.9	2859	90.4,90.4
80	118.2	126.0	154.4	136.5					70- 80	227.1	3086	97.5,97.5
90	0.2220	0.1659	2.281	1.663					80- 90	70.72	3157	99.8,99.8
100	0.4139	0.4423	0.4754	0.4526					90-100	0.3668	3157	99.8,99.8
110	0.7400	0.8069	0.8513	0.8340					100-110	0.6596	3158	99.8,99.8
120	1.072	1.155	1.233	1.221					110-120	0.9845	3159	99.8,99.8
130	1.386	1.470	1.591	1.563					120-130	1.199	3160	99.9,99.9
140	1.630	1.708	1.873	1.862					130-140	1.268	3161	99.9,99.9
150	1.834	1.895	2.155	2.133					140-150	1.182	3163	99.9,99.9
160	2.088	2.139	2.387	2.359					150-160	0.9799	3164	100,100
170	2.331	2.365	2.569	2.569					160-170	0.6646	3164	100,100
180	2.580	2.669	2.613	2.674					170-180	0.2396	3164	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	2151	3072
80	2785	2970
75	3170	3304
70	3460	3555
65	3681	3751
60	3849	3901
55	3979	4022
50	4084	4118
45	4167	4197

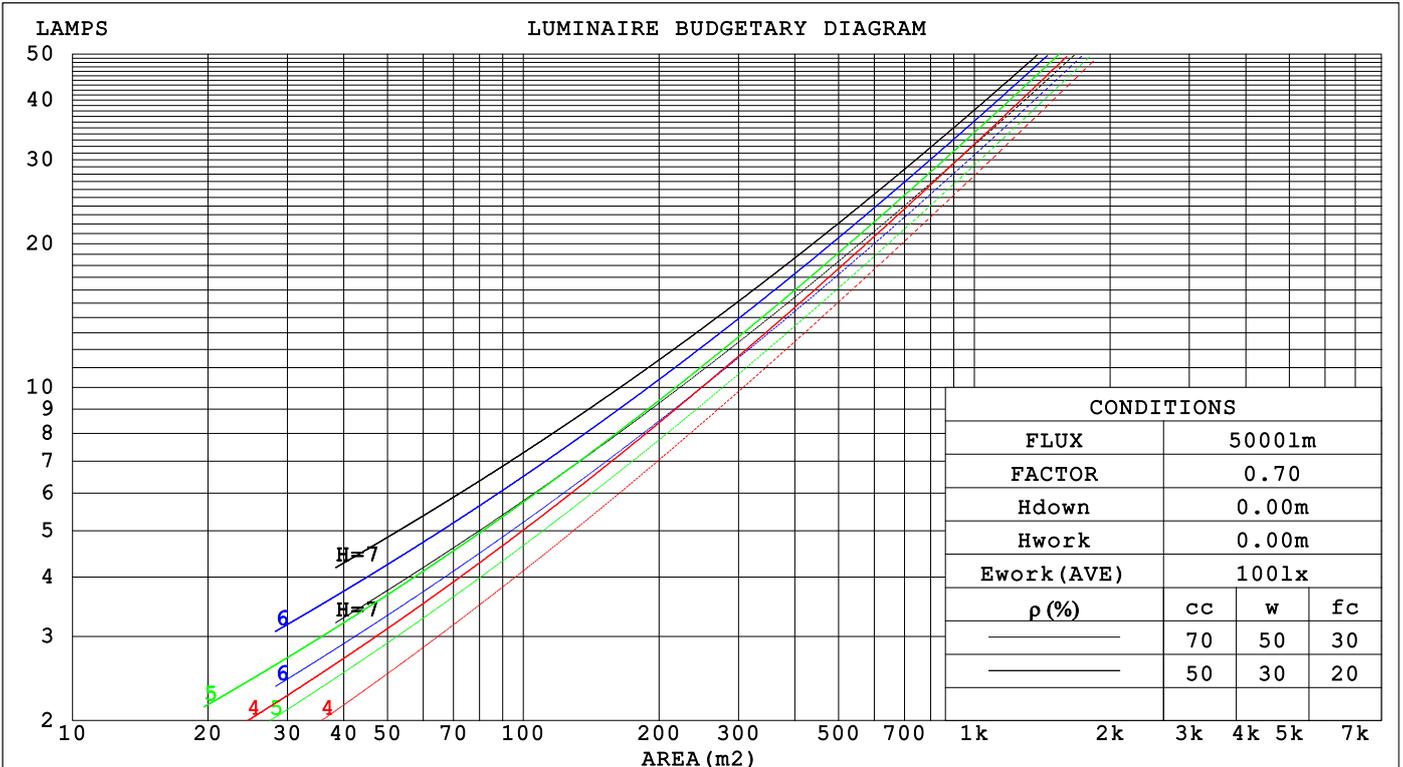
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	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	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz		
Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.314	.179	.057	.307	.175	.056	.294	.168	.054	.281	.162	.052	.270	.156	.050	
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.045	
3.0	.272	.145	.043	.266	.142	.043	.256	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.182	.158	.136	.156	.136	.117	.107	.093	.081	.061	.054	.047	.020	.017	.015	
2.0	.174	.134	.100	.149	.115	.086	.102	.080	.060	.059	.046	.035	.019	.015	.011	
3.0	.167	.116	.076	.143	.100	.066	.098	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.159	.103	.060	.136	.089	.052	.094	.062	.037	.054	.036	.022	.017	.012	.007	
5.0	.152	.092	.049	.130	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.041	.124	.073	.036	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.137	.077	.035	.118	.067	.031	.082	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.113	.062	.027	.078	.044	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.108	.058	.024	.075	.041	.017	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.042	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz										
Lamp Flux:3164.46x1 lm										
NAME:			TYPE:				WEIGHT:			
SPEC.:			DIM.:				SERIAL No.: 3500K			
MFR.:			SUR.: 0.558				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	17.6	19.1	17.9	19.3	19.5	17.6	19.2	17.9	19.4	19.6
3H	19.1	20.5	19.4	20.7	21.0	19.1	20.6	19.4	20.8	21.0
4H	19.6	21.0	20.0	21.2	21.5	19.7	21.1	20.1	21.3	21.6
6H	20.0	21.3	20.4	21.6	21.9	20.2	21.4	20.5	21.7	22.0
8H	20.2	21.4	20.5	21.7	22.0	20.3	21.5	20.7	21.8	22.1
12H	20.2	21.4	20.6	21.7	22.0	20.4	21.6	20.8	21.9	22.2
4H 2H	18.2	19.5	18.5	19.8	20.1	18.2	19.6	18.5	19.8	20.1
3H	19.9	21.0	20.2	21.3	21.6	19.9	21.1	20.3	21.4	21.7
4H	20.6	21.6	20.9	22.0	22.3	20.6	21.7	21.0	22.0	22.4
6H	21.1	22.0	21.5	22.4	22.8	21.2	22.2	21.6	22.5	22.9
8H	21.2	22.1	21.7	22.5	22.9	21.4	22.3	21.8	22.7	23.1
12H	21.3	22.2	21.8	22.6	23.0	21.6	22.4	22.0	22.8	23.2
8H 4H	20.8	21.7	21.2	22.1	22.5	20.9	21.8	21.3	22.2	22.6
6H	21.5	22.2	21.9	22.6	23.1	21.6	22.3	22.0	22.8	23.2
8H	21.7	22.4	22.2	22.8	23.3	21.9	22.6	22.4	23.0	23.4
12H	21.9	22.5	22.4	22.9	23.4	22.2	22.7	22.7	23.2	23.7
12H 4H	20.8	21.7	21.3	22.0	22.5	20.9	21.7	21.3	22.1	22.5
6H	21.5	22.2	22.0	22.6	23.1	21.7	22.3	22.1	22.7	23.2
8H	21.8	22.4	22.3	22.9	23.3	22.0	22.6	22.5	23.0	23.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 3164 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.0)
 Area: 0.2444 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:

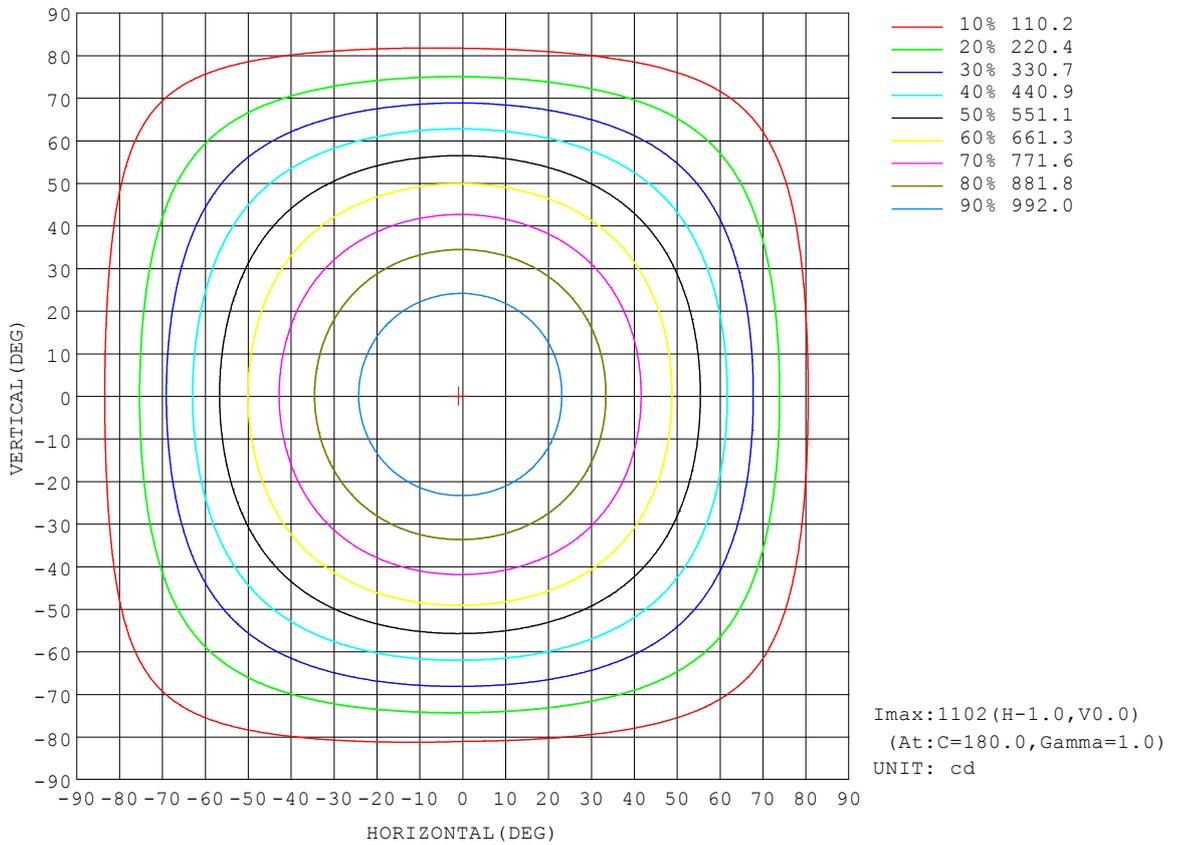
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	79	93	85	79	89	83	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:

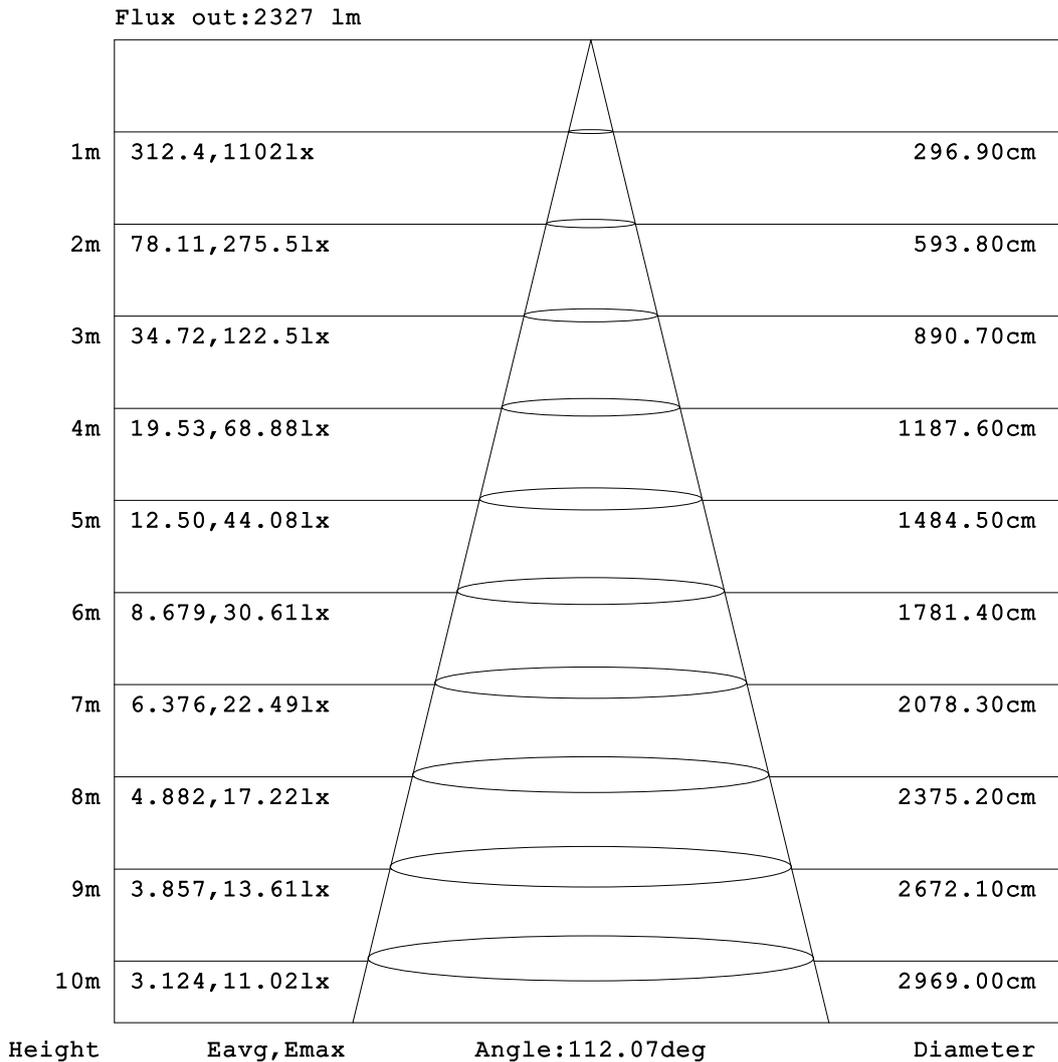


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:



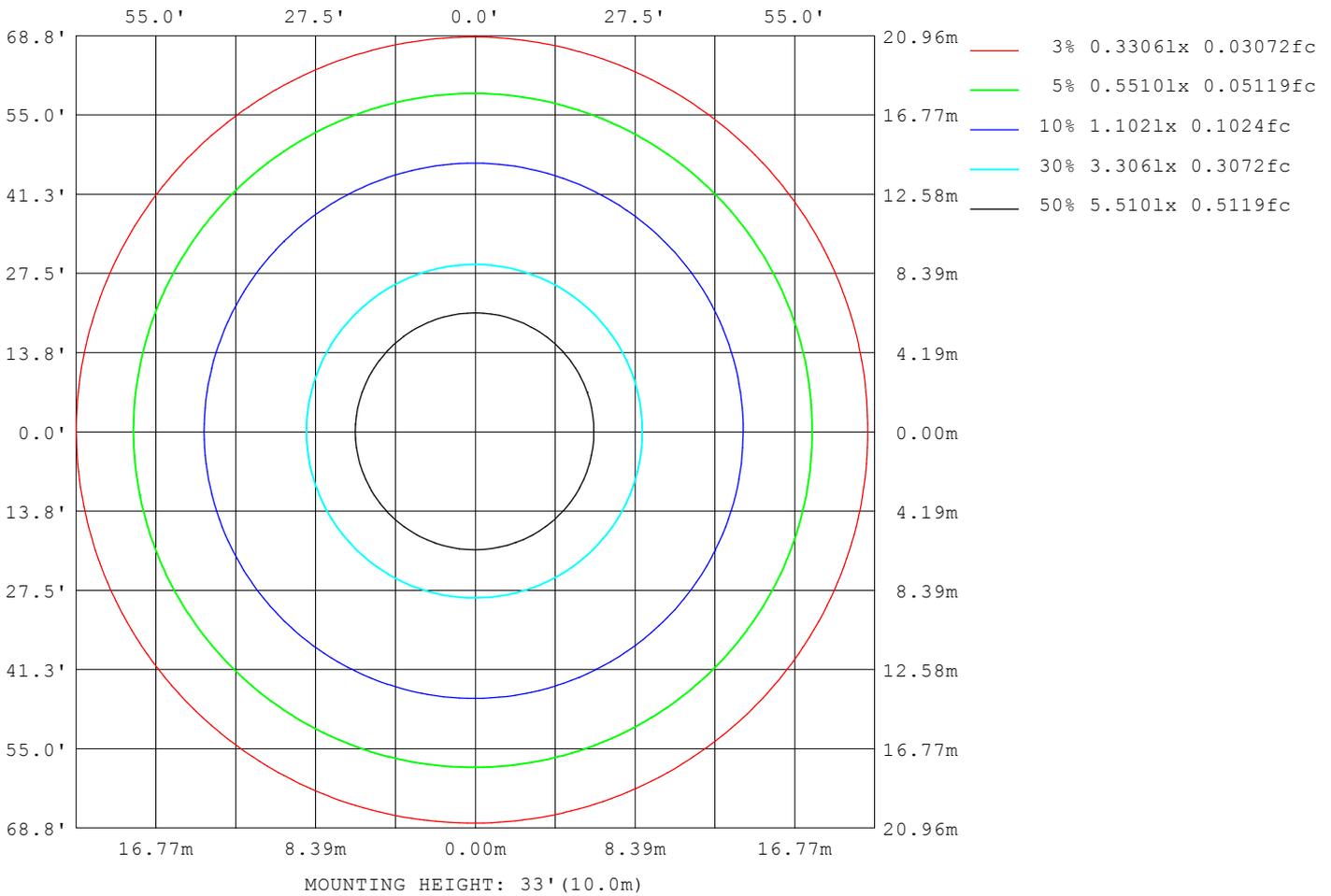
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity: 65.0%
 Test Distance: 8.800m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:

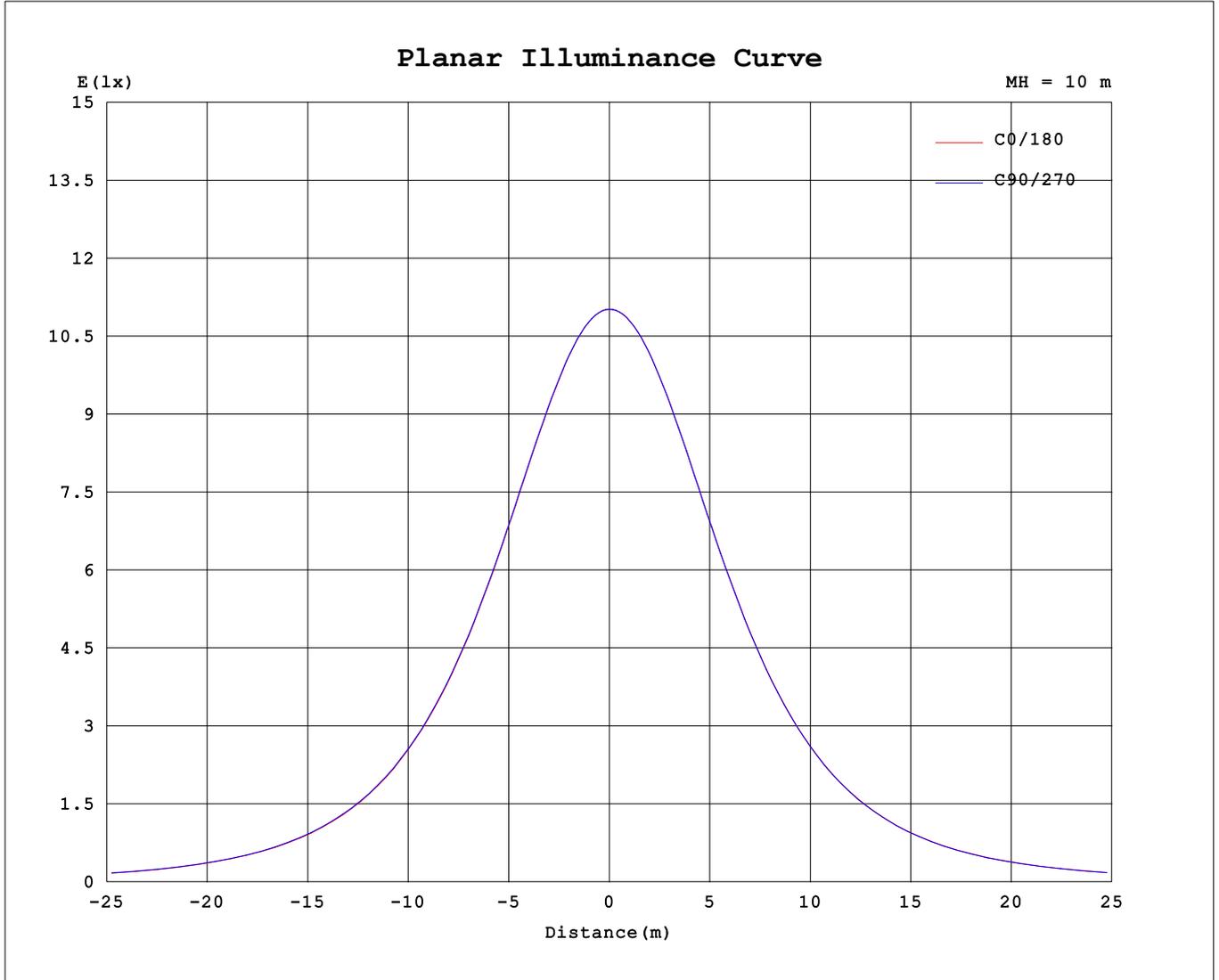
AvgL	cd/m2
L_0~180 (65) av	3798
L_0~180 (75) av	3371
L_0~180 (85) av	3128
L_90~270 (65) av	3814
L_90~270 (75) av	3397
L_90~270 (85) av	2972
L_45 (65) av	3816
L_45 (75) av	3400
L_45 (85) av	3091

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.93V I:0.3231A P:38.322W PF:0.9888 Freq:59.98Hz Lamp Flux:3164.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1102	1102	1102	1102															
5	1096	1096	1098	1098															
10	1080	1081	1084	1084															
15	1053	1055	1060	1060															
20	1018	1020	1027	1027															
25	974	976	985	985															
30	921	925	935	934															
35	861	865	876	875															
40	794	798	811	809															
45	720	725	740	738															
50	641	647	662	660															
55	558	564	580	577															
60	470	477	494	490															
65	380	387	405	400															
70	289	297	314	310															
75	201	209	226	221															
80	118	126	154	136															
85	45.8	65.4	87.5	61.2															
90	0.22	0.17	2.28	1.66															
95	0.25	0.28	0.31	0.26															
100	0.41	0.44	0.48	0.45															
105	0.57	0.62	0.67	0.64															
110	0.74	0.81	0.85	0.83															
115	0.91	0.98	1.06	1.04															
120	1.07	1.15	1.23	1.22															
125	1.23	1.32	1.41	1.39															
130	1.39	1.47	1.59	1.56															
135	1.52	1.60	1.75	1.72															
140	1.63	1.71	1.87	1.86															
145	1.73	1.81	2.02	1.99															
150	1.83	1.90	2.15	2.13															
155	1.96	2.02	2.27	2.25															
160	2.09	2.14	2.39	2.36															
165	2.20	2.25	2.49	2.46															
170	2.33	2.36	2.57	2.57															
175	2.43	2.46	2.61	2.64															
180	2.58	2.67	2.61	2.67															

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