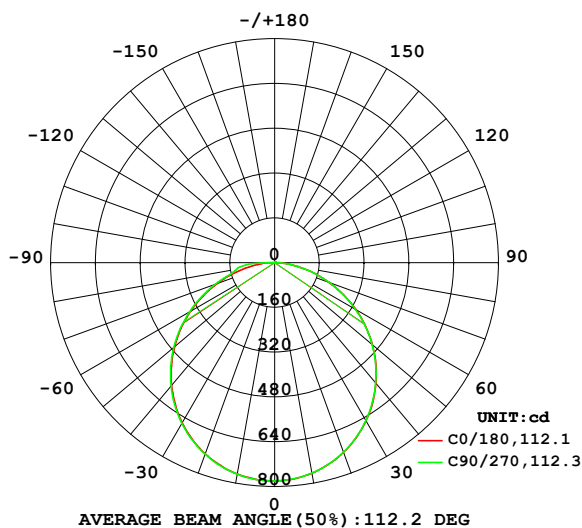


LUMINAIRE PHOTOMETRIC TEST REPORT

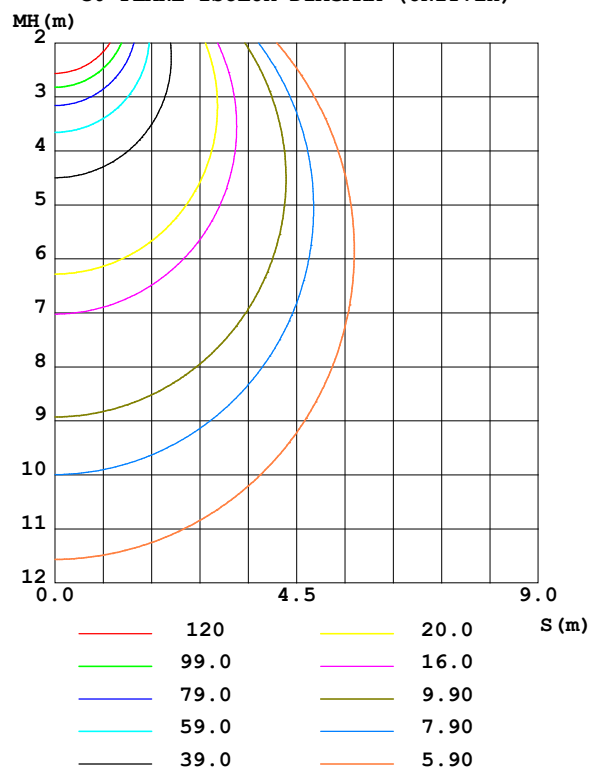
Test:U:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 55.51 lm/W
MODEL	EGRF2440LAJUDBK_2700K	I _{max} (cd)	779.8	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)	2249.0	η UP,DN(C0-180)	0.1,48.7	
NOMINAL FLUX(lm)	2248.99	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,51.0	
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	

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:
Test Date:2025-10-31

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:

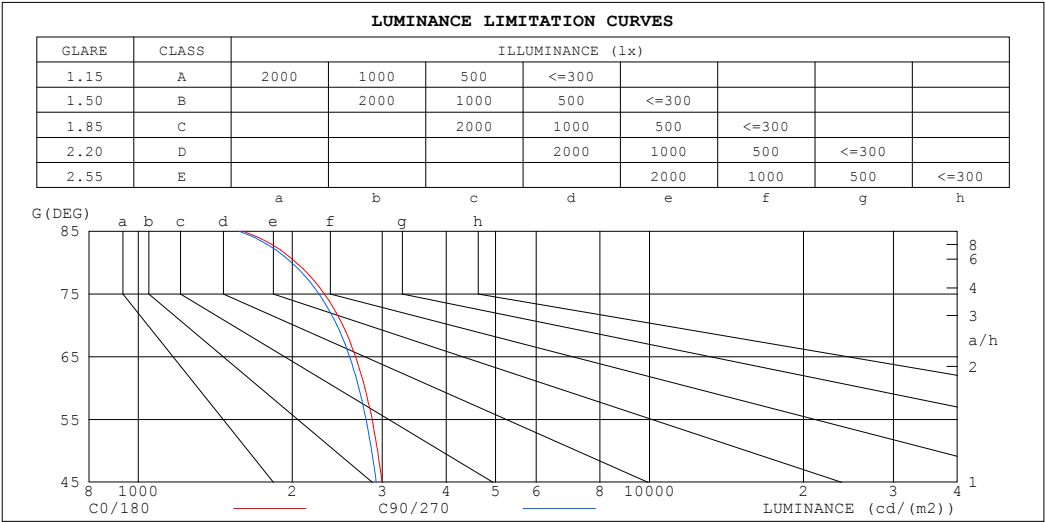
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	764.3	763.5	767.0	767.6					0- 10	73.76	73.76	3.28,3.28
20	721.2	720.2	726.5	728.1					10- 20	211.1	284.9	12.7,12.7
30	653.0	651.8	660.7	663.3					20- 30	319.6	604.5	26.9,26.9
40	563.2	561.7	572.7	575.8					30- 40	384.9	989.3	44,44
50	456.2	454.5	466.8	470.7					40- 50	398.8	1388	61.7,61.7
60	335.2	333.8	346.2	350.9					50- 60	360.2	1748	77.7,77.7
70	207.6	206.9	217.8	225.7					60- 70	275.2	2024	90,90
80	85.38	85.70	94.52	137.5					70- 80	162.9	2186	97.2,97.2
90	0.1484	0.1399	0.2390	0.4316					80- 90	57.52	2244	99.8,99.8
100	0.2236	0.3412	0.3171	0.2569					90-100	0.2149	2244	99.8,99.8
110	0.4585	0.5705	0.5845	0.5252					100-110	0.4300	2245	99.8,99.8
120	0.7040	0.7996	0.8521	0.7825					110-120	0.6533	2245	99.8,99.8
130	0.9119	1.018	1.092	1.028					120-130	0.8051	2246	99.9,99.9
140	1.076	1.185	1.295	1.235					130-140	0.8541	2247	99.9,99.9
150	1.228	1.325	1.480	1.425					140-150	0.8012	2248	99.9,99.9
160	1.387	1.487	1.655	1.604					150-160	0.6672	2248	100,100
170	1.529	1.616	1.779	1.722					160-170	0.4534	2249	100,100
180	1.720	1.750	1.791	1.761					170-180	0.1613	2249	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:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1604	1576
80	2035	1996
75	2311	2257
70	2512	2447
65	2661	2589
60	2776	2700
55	2867	2790
50	2938	2859
45	2994	2916

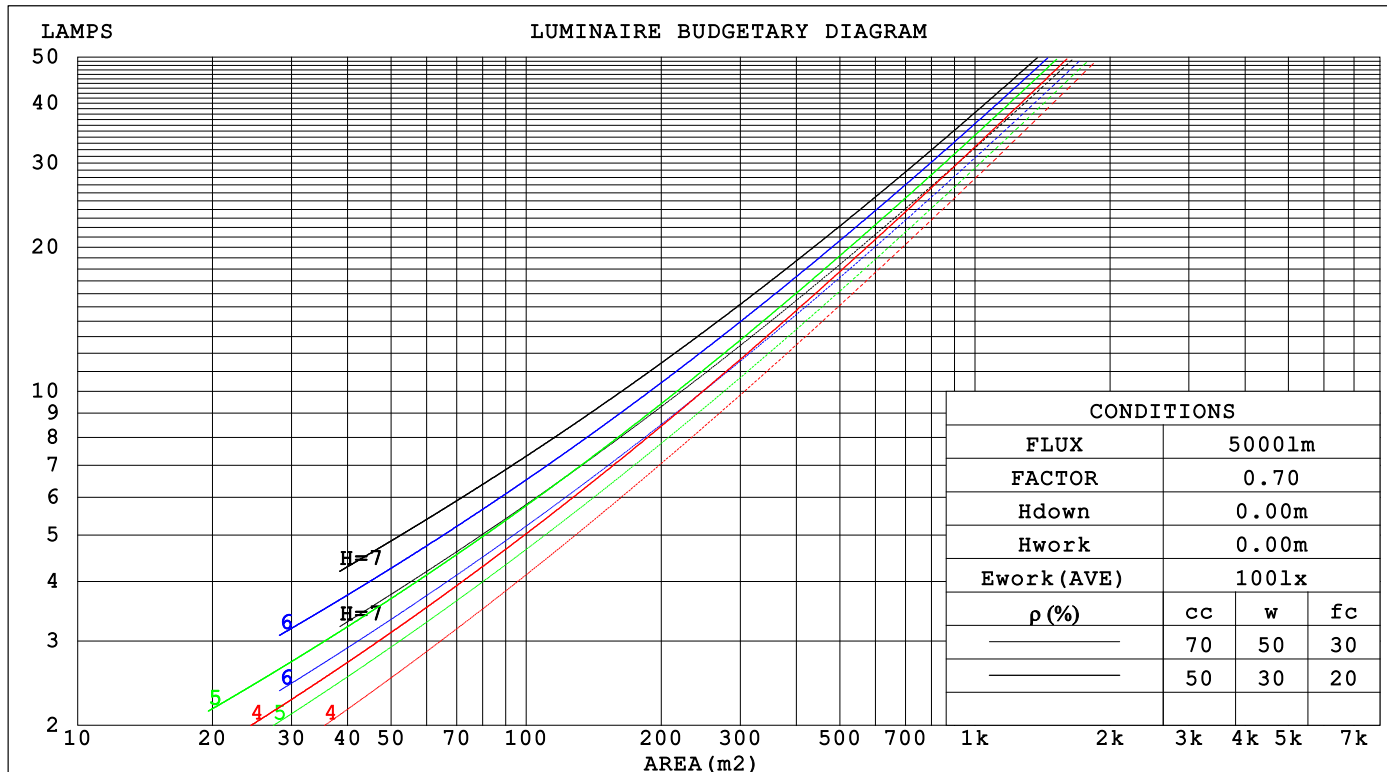
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
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	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.88	.89	.87	.85	.83												
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69												
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58												
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49												
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42												
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37												
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33												
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29												
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.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:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.: 2700K	
MFR.:		SUR.: 0.558		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	.318	.181	.057	.311	.177	.056	.297	.171	.054	.285	.164	.053	.273	.159	.051															
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046															
3.0	.273	.145	.043	.267	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041															
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036															
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033															
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.197	.102	.030	.190	.100	.030															
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.183	.094	.027	.178	.092	.027															
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025															
9.0	.175	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023															
10.0	.164	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.183	.158	.135	.156	.135	.117	.107	.093	.081	.062	.054	.047	.020	.017	.015	
2.0	.175	.134	.099	.150	.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	.137	.089	.052	.094	.062	.037	.054	.036	.022	.017	.012	.007	
5.0	.152	.092	.049	.130	.080	.042	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.041	.124	.073	.035	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.137	.077	.035	.118	.067	.030	.082	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.030	.113	.062	.026	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.108	.058	.023	.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:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.: 2700K				
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	16.4	18.0	16.7	18.2	18.4	16.3	17.9	16.6	18.1	18.3
3H	17.9	19.3	18.2	19.6	19.8	17.8	19.2	18.1	19.5	19.7
4H	18.5	19.9	18.8	20.1	20.4	18.4	19.7	18.7	20.0	20.3
6H	18.9	20.2	19.3	20.5	20.8	18.8	20.1	19.1	20.4	20.6
8H	19.1	20.3	19.4	20.6	20.9	18.9	20.2	19.3	20.4	20.7
12H	19.1	20.3	19.5	20.6	20.9	19.0	20.2	19.3	20.5	20.8
4H 2H	17.0	18.4	17.3	18.6	18.9	16.9	18.3	17.3	18.5	18.8
3H	18.7	19.9	19.1	20.2	20.5	18.6	19.8	19.0	20.1	20.4
4H	19.4	20.5	19.8	20.8	21.2	19.3	20.4	19.7	20.7	21.1
6H	20.0	20.9	20.4	21.3	21.6	19.8	20.8	20.3	21.2	21.5
8H	20.1	21.0	20.5	21.4	21.8	20.0	20.9	20.4	21.3	21.7
12H	20.2	21.1	20.7	21.4	21.9	20.1	21.0	20.6	21.3	21.8
8H 4H	19.7	20.6	20.1	20.9	21.3	19.6	20.5	20.0	20.9	21.2
6H	20.3	21.1	20.8	21.5	21.9	20.3	21.0	20.7	21.4	21.8
8H	20.6	21.3	21.1	21.7	22.2	20.5	21.2	21.0	21.6	22.1
12H	20.8	21.3	21.3	21.8	22.3	20.7	21.3	21.2	21.7	22.2
12H 4H	19.7	20.5	20.1	20.9	21.3	19.6	20.4	20.0	20.8	21.2
6H	20.4	21.1	20.9	21.5	22.0	20.3	21.0	20.8	21.4	21.9
8H	20.7	21.3	21.2	21.7	22.2	20.6	21.2	21.1	21.6	22.1
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, 2249 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.8$)
Area: 0.2444 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

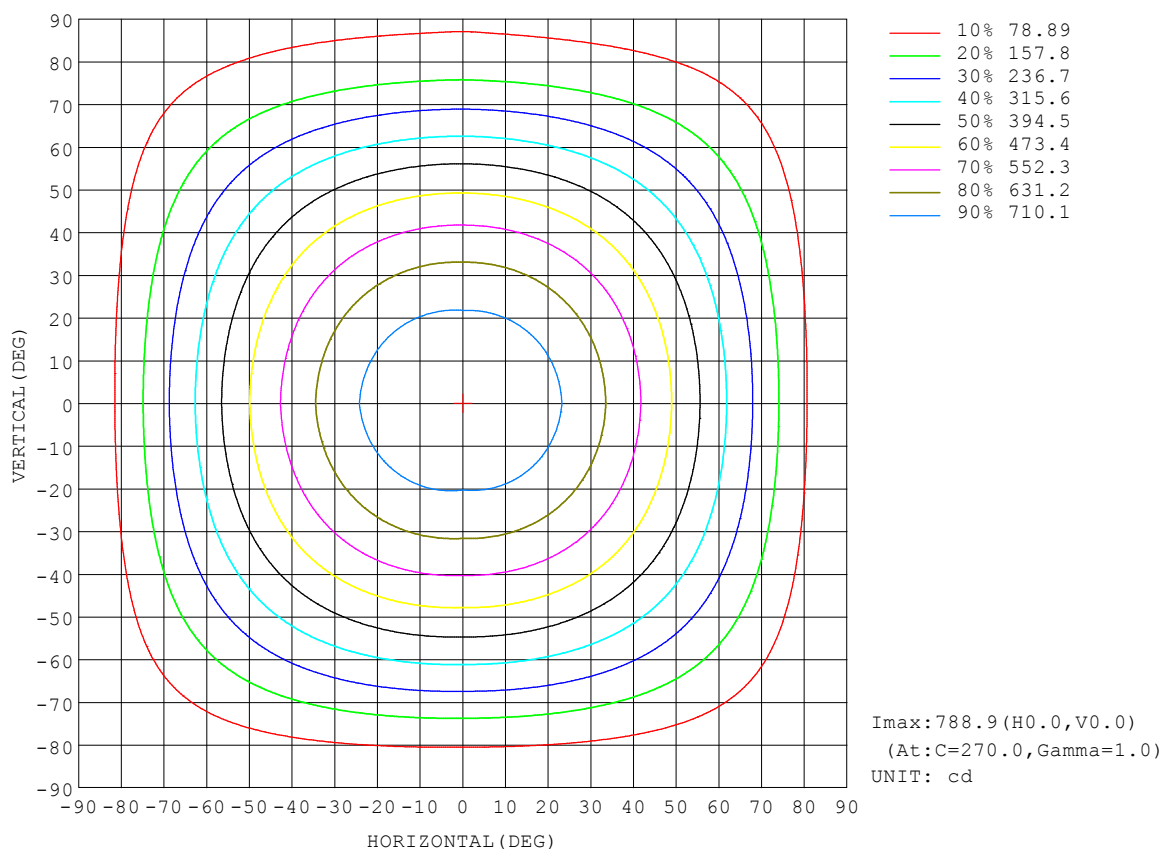
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	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: 2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

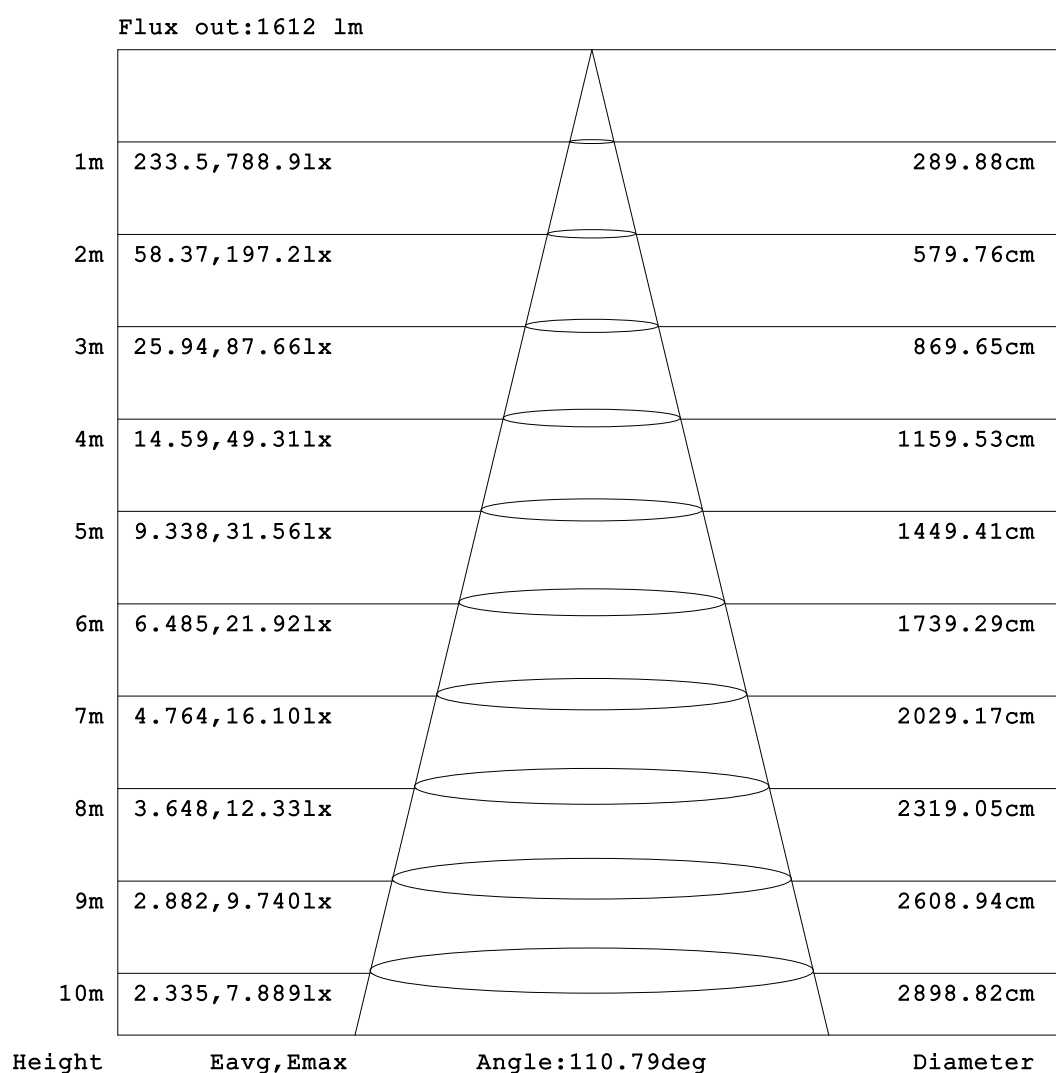


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:



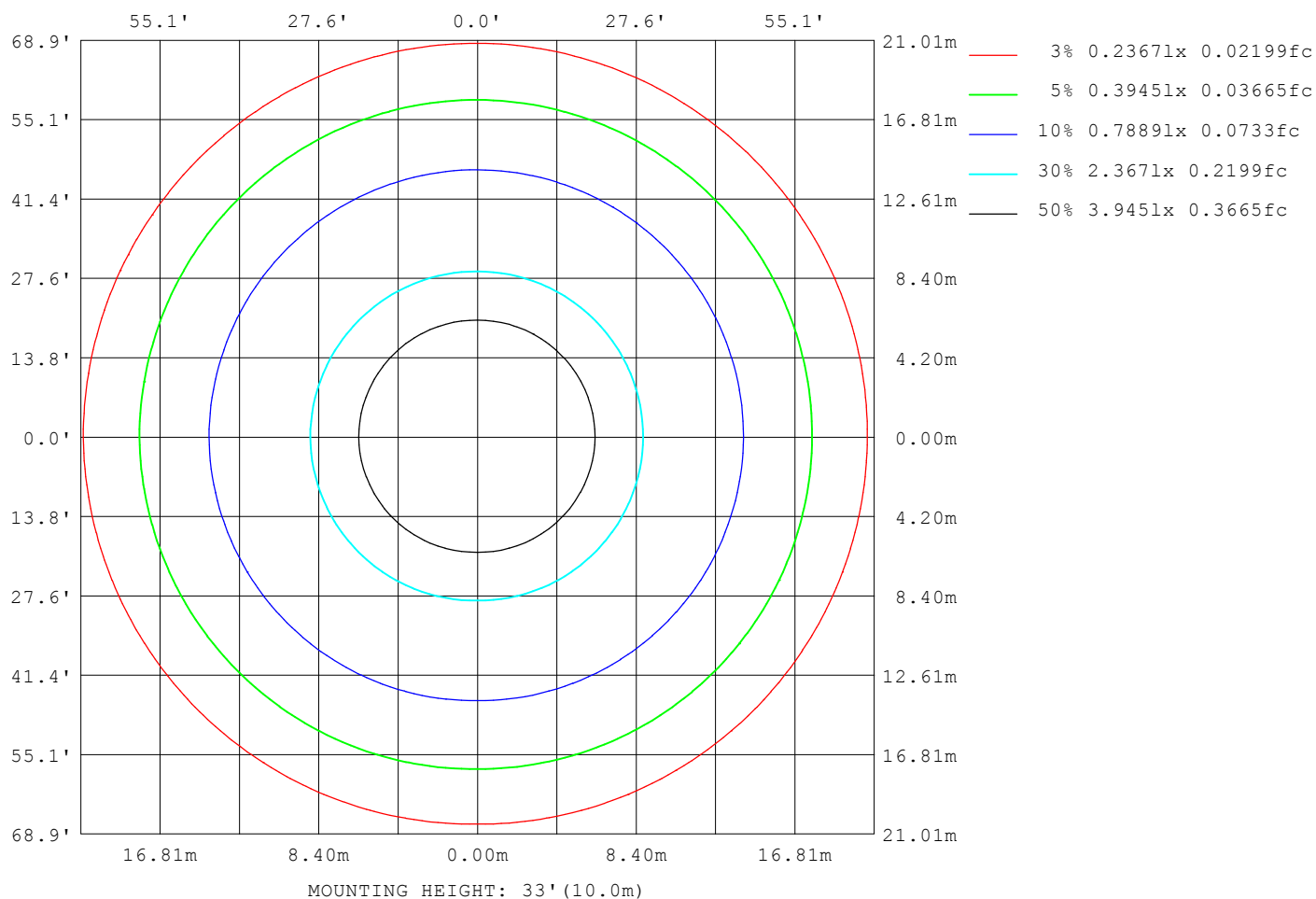
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

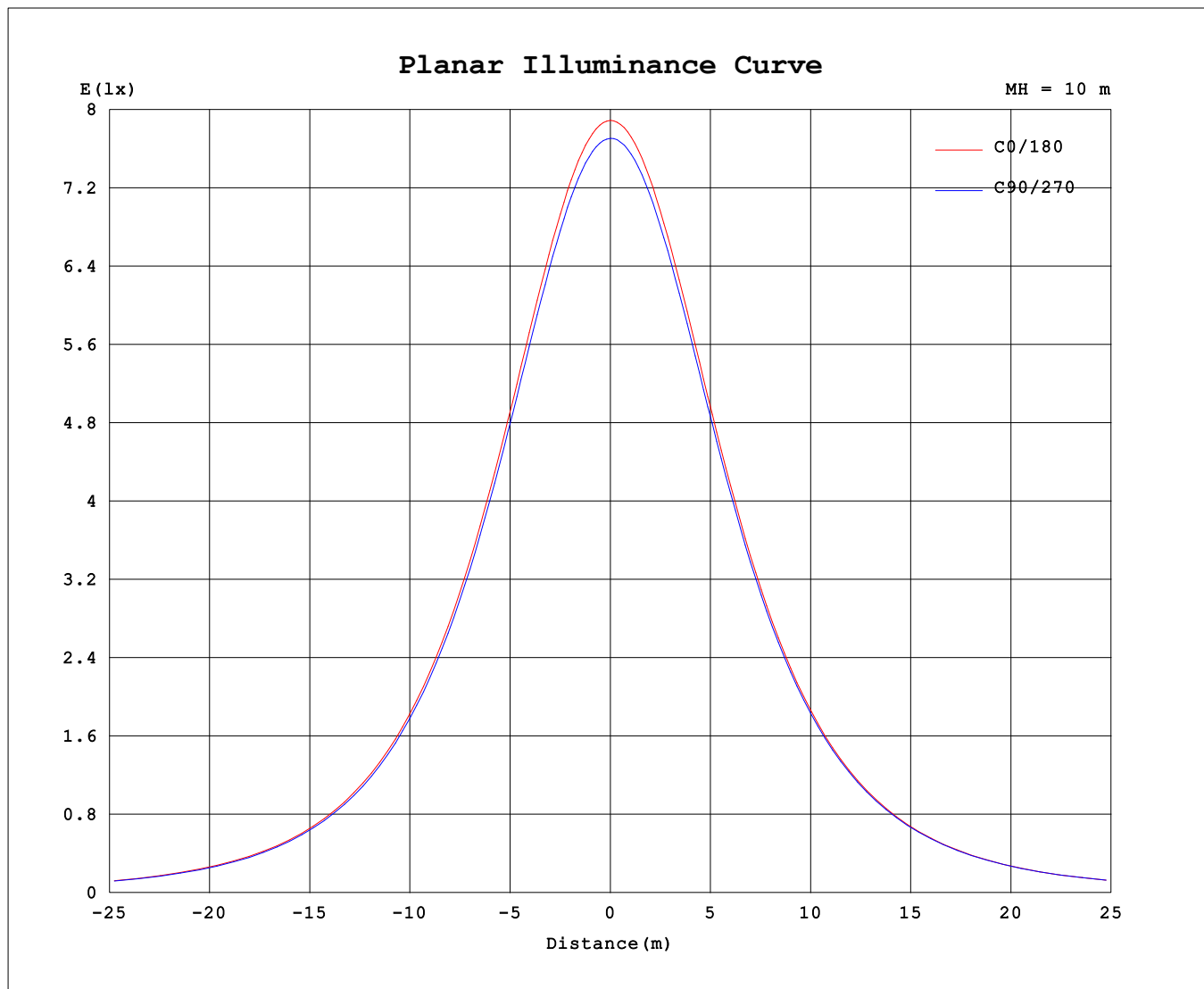
AvgL	cd/m2
L_0~180 (65) av	2681
L_0~180 (75) av	2362
L_0~180 (85) av	1885
L_90~270 (65) av	2705
L_90~270 (75) av	2468
L_90~270 (85) av	3245
L_45 (65) av	2699
L_45 (75) av	2432
L_45 (85) av	2746

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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: 2025-10-31

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:119.77V I:0.3421A P:40.514W PF:0.9890 Freq:59.98Hz Lamp Flux:2248.99x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	780	780	780	780														
5	776	775	777	777														
10	764	764	767	768														
15	746	745	750	751														
20	721	720	727	728														
25	690	689	697	699														
30	653	652	661	663														
35	610	609	619	622														
40	563	562	573	576														
45	511	510	522	525														
50	456	455	467	471														
55	397	396	408	412														
60	335	334	346	351														
65	272	271	282	288														
70	208	207	218	226														
75	144	144	154	168														
80	85.4	85.7	94.5	138														
85	33.8	34.0	46.5	104														
90	0.15	0.14	0.24	0.43														
95	0.15	0.23	0.20	0.13														
100	0.22	0.34	0.32	0.26														
105	0.33	0.46	0.44	0.39														
110	0.46	0.57	0.58	0.53														
115	0.58	0.69	0.72	0.67														
120	0.70	0.80	0.85	0.78														
125	0.81	0.91	0.97	0.91														
130	0.91	1.02	1.09	1.03														
135	0.99	1.10	1.20	1.14														
140	1.08	1.19	1.29	1.24														
145	1.14	1.26	1.40	1.32														
150	1.23	1.33	1.48	1.43														
155	1.30	1.41	1.55	1.52														
160	1.39	1.49	1.66	1.60														
165	1.47	1.55	1.74	1.67														
170	1.53	1.62	1.78	1.72														
175	1.59	1.67	1.79	1.76														
180	1.72	1.75	1.79	1.76														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
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