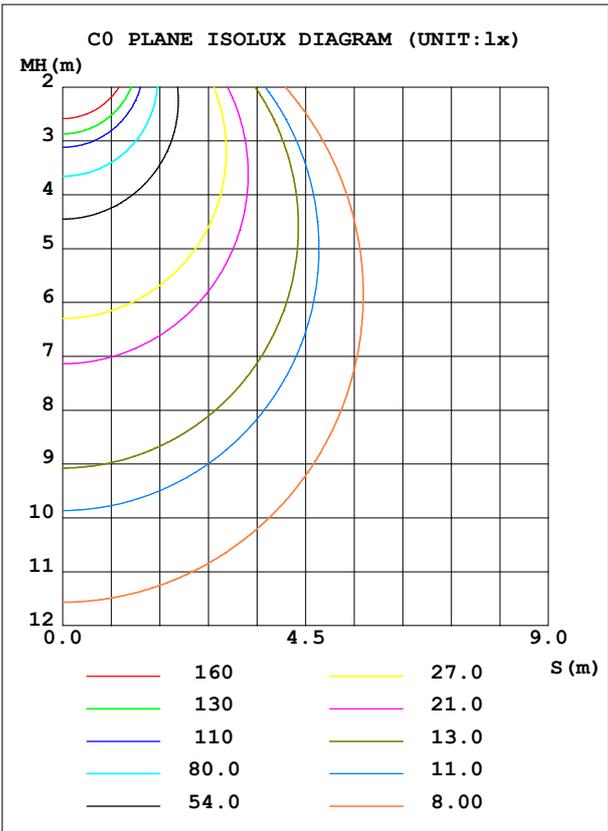
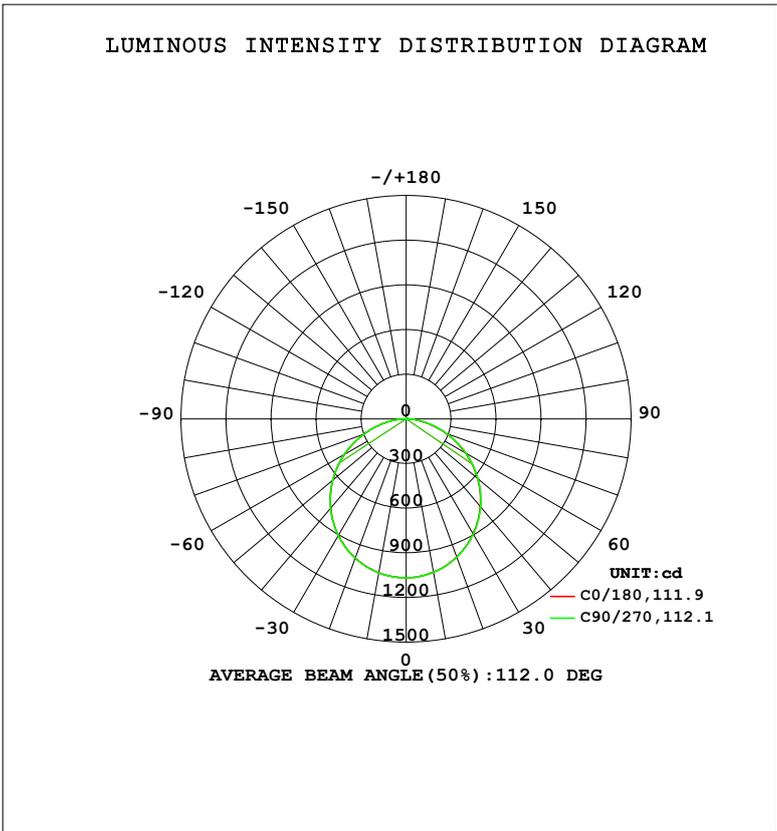


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.93V I:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2440LAJUDSN_ 2700K	Imax (cd)	1068	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)	3050.2	η UP, DN (C0-180)	0.1,49.1
NOMINAL FLUX (lm)	3050.24	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,50.6
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:

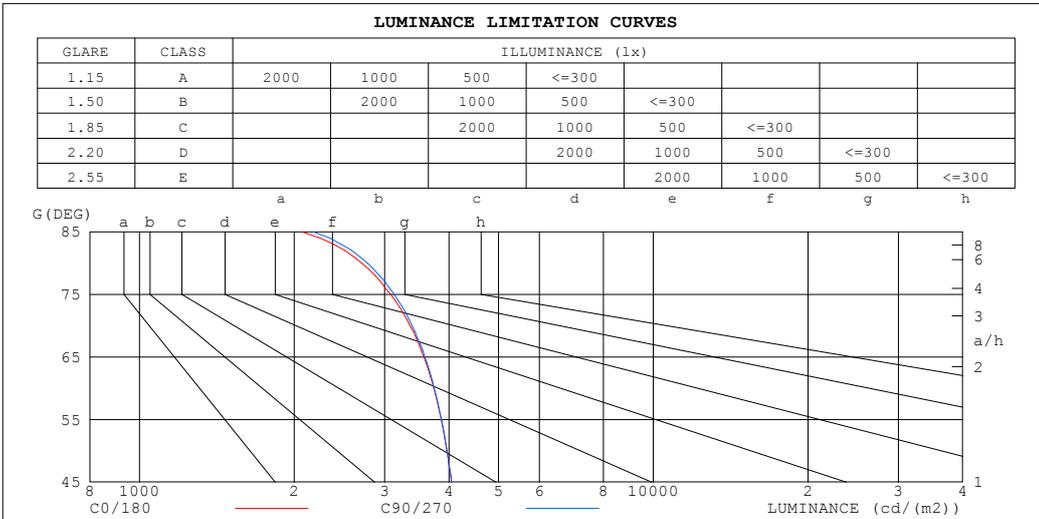
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1046	1046	1050	1050					0- 10	101.0	101.0	3.31,3.31
20	986.8	987.4	994.4	995.0					10- 20	289.0	390.0	12.8,12.8
30	893.0	894.3	904.2	905.0					20- 30	437.3	827.3	27.1,27.1
40	769.4	771.2	783.4	784.5					30- 40	526.4	1354	44.4,44.4
50	621.9	624.2	638.7	639.9					40- 50	545.1	1899	62.3,62.3
60	456.0	458.9	474.4	475.2					50- 60	491.8	2391	78.4,78.4
70	280.4	284.3	299.6	300.9					60- 70	375.1	2766	90.7,90.7
80	114.6	118.2	131.7	132.7					70- 80	217.3	2983	97.8,97.8
90	0.1783	0.1552	1.747	1.351					80- 90	60.06	3043	99.8,99.8
100	0.3634	0.4323	0.4524	0.4040					90-100	0.3288	3043	99.8,99.8
110	0.6942	0.7811	0.8327	0.7915					100-110	0.6270	3044	99.8,99.8
120	1.025	1.119	1.197	1.152					110-120	0.9437	3045	99.8,99.8
130	1.334	1.418	1.505	1.500					120-130	1.152	3046	99.9,99.9
140	1.560	1.656	1.753	1.783					130-140	1.212	3047	99.9,99.9
150	1.764	1.839	2.051	2.032					140-150	1.128	3048	99.9,99.9
160	2.017	2.077	2.304	2.270					150-160	0.9441	3049	100,100
170	2.232	2.287	2.530	2.453					160-170	0.6419	3050	100,100
180	2.536	2.536	2.580	2.564					170-180	0.2318	3050	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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 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	2069	2176
80	2706	2778
75	3082	3133
70	3362	3393
65	3577	3594
60	3740	3747
55	3866	3869
50	3968	3964
45	4050	4044

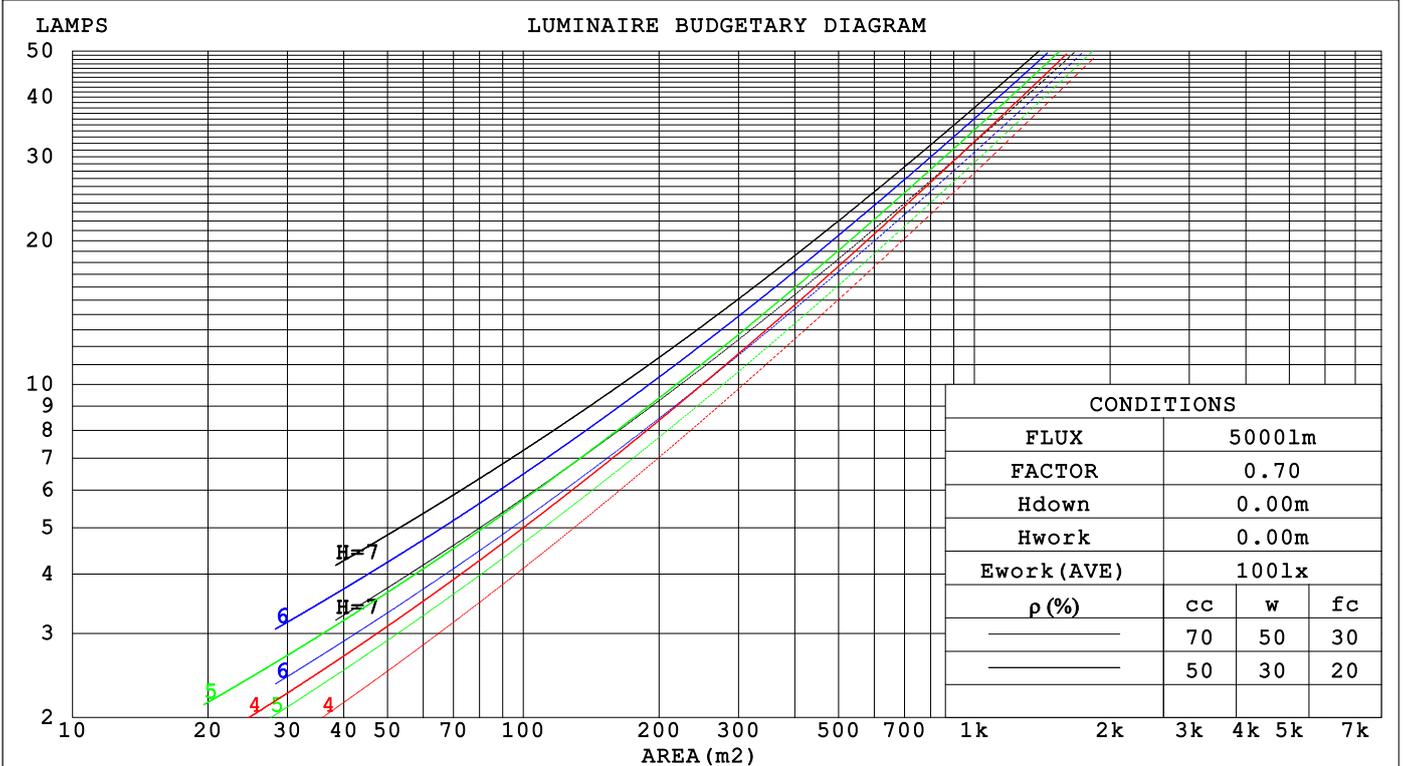
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 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	1.04	.99	.96	1.01	.98	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.46	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz		
Lamp Flux:3050.24x1 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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.311	.177	.056	.304	.173	.055	.291	.167	.053	.278	.161	.052	.267	.155	.050	
2.0	.293	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.210	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.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	.166	.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	.151	.092	.049	.130	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.041	.124	.073	.036	.085	.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	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.107	.058	.024	.074	.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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz										
Lamp Flux:3050.24x1 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	17.5	19.0	17.8	19.2	19.4	17.5	19.0	17.8	19.2	19.4
3H	19.0	20.4	19.3	20.6	20.9	19.0	20.4	19.3	20.6	20.9
4H	19.6	20.9	19.9	21.1	21.4	19.6	20.9	19.9	21.2	21.4
6H	20.0	21.2	20.3	21.5	21.8	20.0	21.3	20.3	21.5	21.8
8H	20.1	21.3	20.4	21.6	21.9	20.1	21.3	20.5	21.6	21.9
12H	20.1	21.3	20.5	21.6	21.9	20.2	21.4	20.5	21.7	22.0
4H 2H	18.1	19.4	18.4	19.7	20.0	18.1	19.4	18.4	19.7	20.0
3H	19.8	20.9	20.1	21.2	21.5	19.8	20.9	20.1	21.2	21.6
4H	20.5	21.5	20.8	21.9	22.2	20.5	21.6	20.9	21.9	22.2
6H	21.0	21.9	21.4	22.3	22.7	21.0	22.0	21.4	22.3	22.7
8H	21.2	22.0	21.6	22.4	22.8	21.2	22.1	21.6	22.5	22.9
12H	21.2	22.1	21.7	22.5	22.9	21.3	22.1	21.7	22.5	22.9
8H 4H	20.7	21.6	21.1	22.0	22.4	20.7	21.6	21.2	22.0	22.4
6H	21.4	22.1	21.8	22.5	23.0	21.4	22.2	21.9	22.6	23.0
8H	21.6	22.3	22.1	22.7	23.2	21.7	22.3	22.1	22.8	23.2
12H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.9	23.3
12H 4H	20.7	21.5	21.2	21.9	22.3	20.8	21.6	21.2	22.0	22.4
6H	21.4	22.1	21.9	22.5	23.0	21.5	22.1	21.9	22.6	23.0
8H	21.7	22.3	22.2	22.7	23.2	21.8	22.3	22.2	22.8	23.3
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, 3050 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.9)
 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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

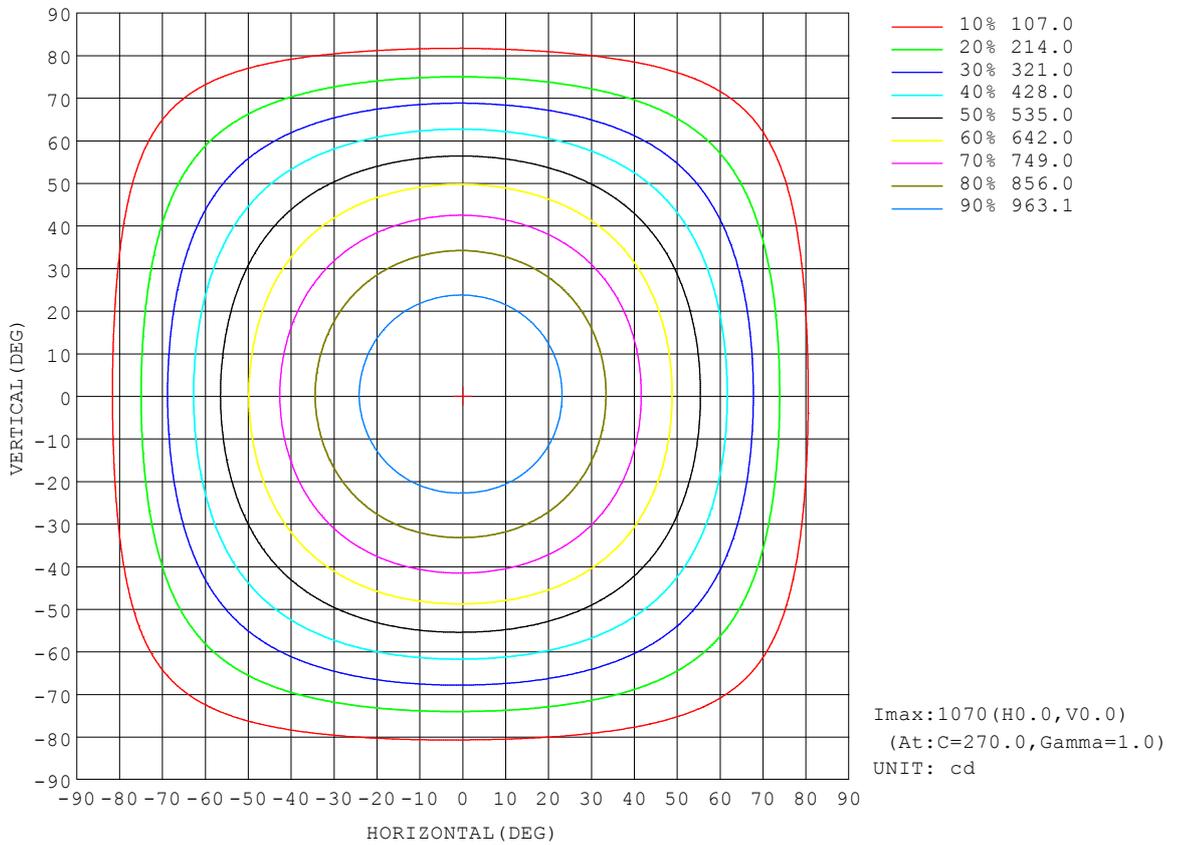
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	55	45	38	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

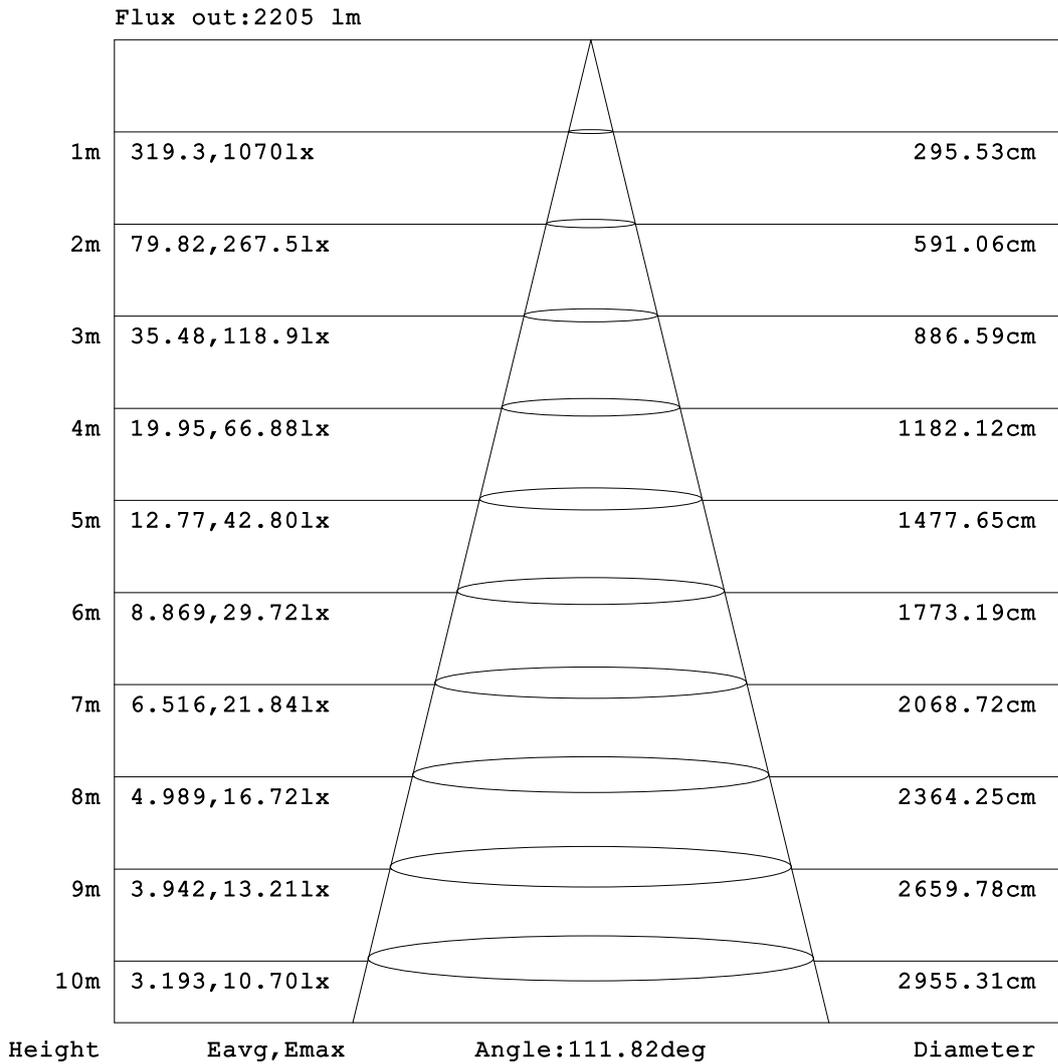


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:



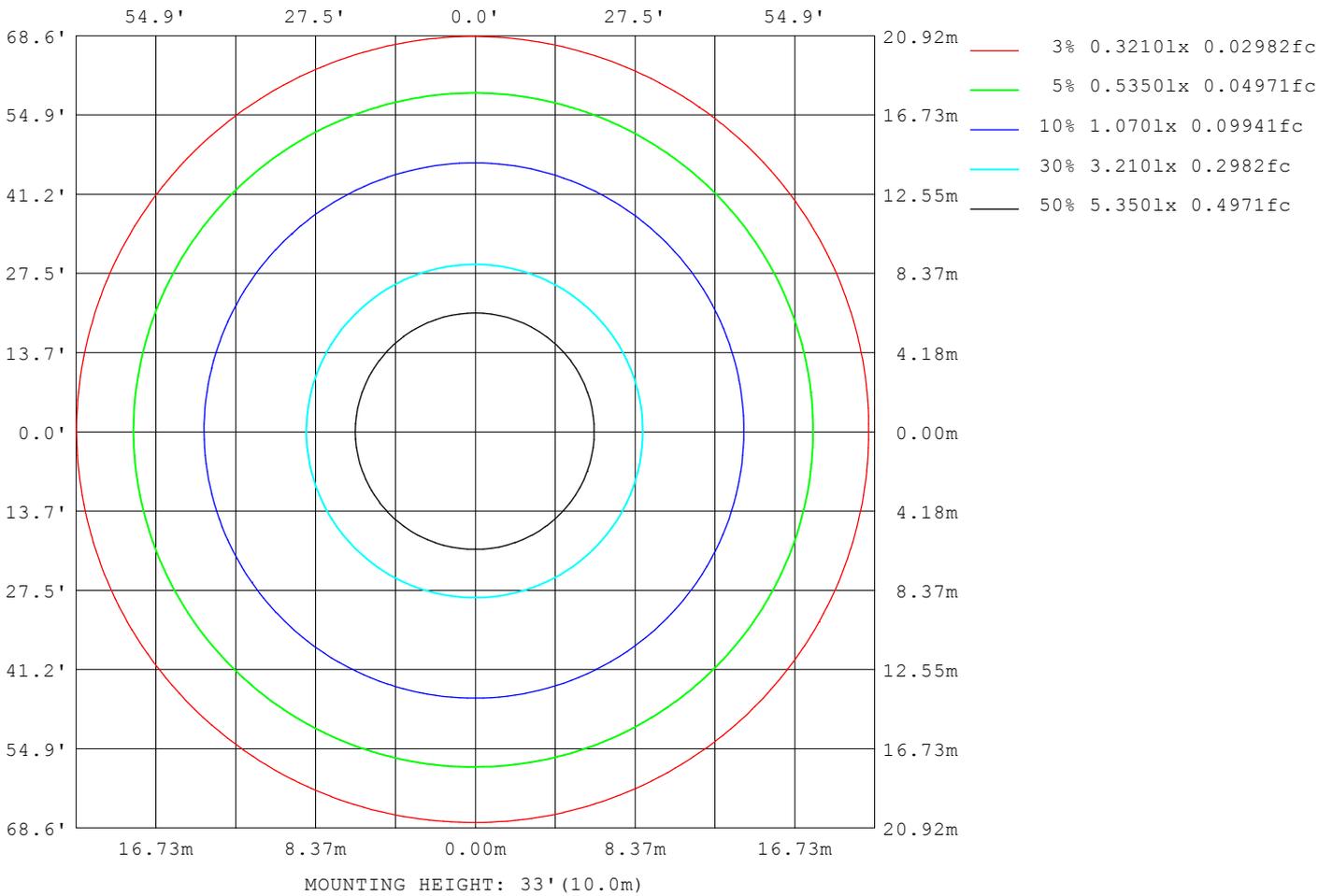
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 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:2025-10-29

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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

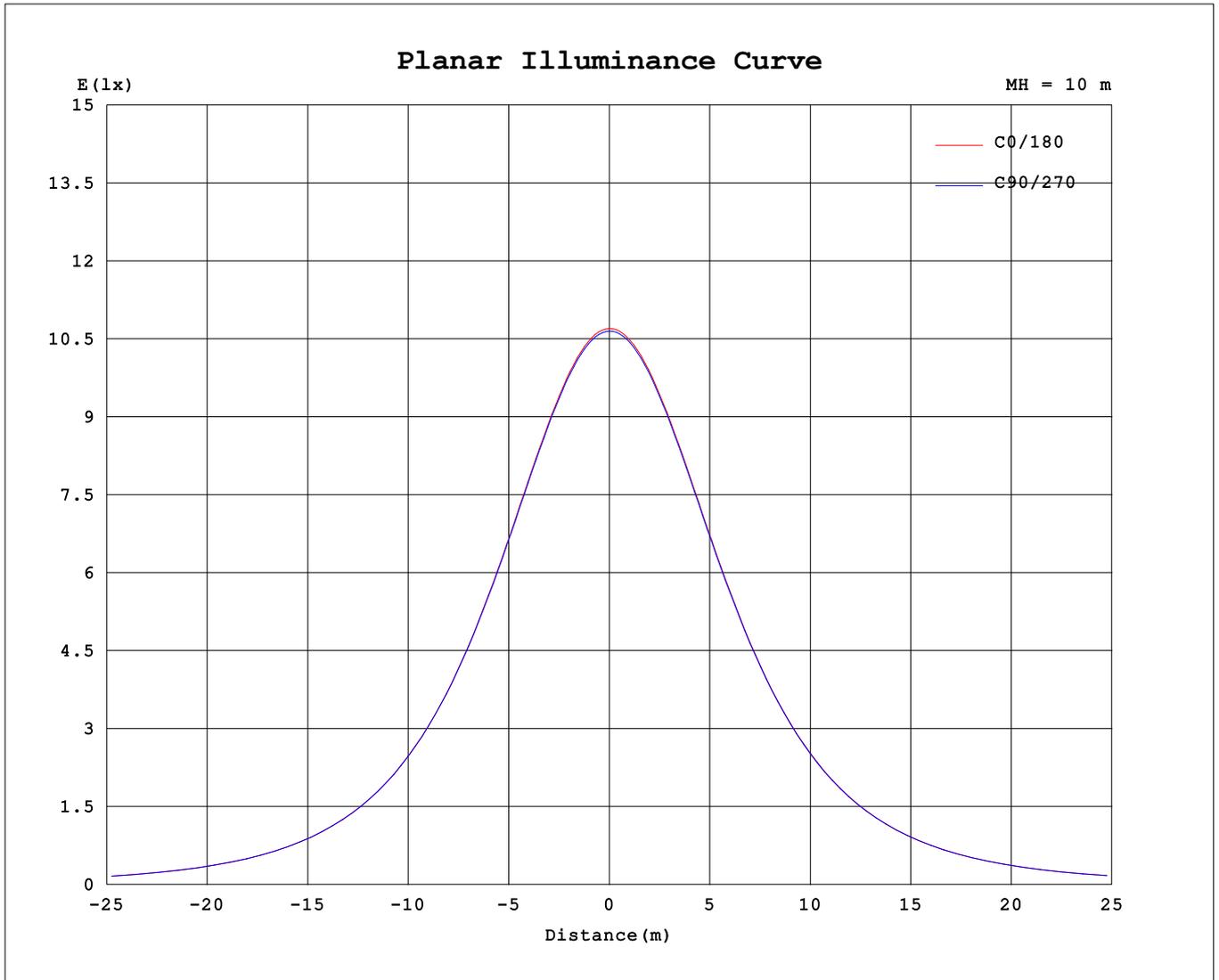
AvgL	cd/m2
L_0~180 (65) av	3661
L_0~180 (75) av	3222
L_0~180 (85) av	2422
L_90~270 (65) av	3682
L_90~270 (75) av	3265
L_90~270 (85) av	2489
L_45 (65) av	3680
L_45 (75) av	3258
L_45 (85) av	2486

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
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γ Range: 0 - 180DEG
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 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:0.3335A P:39.565W PF:0.9893 Freq:59.98Hz Lamp Flux:3050.24x1 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	1068	1068	1068	1068															
5	1062	1062	1064	1064															
10	1046	1046	1050	1050															
15	1021	1021	1027	1027															
20	987	987	994	995															
25	944	945	953	954															
30	893	894	904	905															
35	834	836	847	848															
40	769	771	783	785															
45	698	700	714	715															
50	622	624	639	640															
55	541	544	558	560															
60	456	459	474	475															
65	369	372	388	389															
70	280	284	300	301															
75	194	199	213	214															
80	115	118	132	133															
85	44.0	46.5	59.2	59.6															
90	0.18	0.16	1.75	1.35															
95	0.21	0.28	0.30	0.24															
100	0.36	0.43	0.45	0.40															
105	0.53	0.62	0.65	0.59															
110	0.69	0.78	0.83	0.79															
115	0.86	0.95	1.02	0.99															
120	1.02	1.12	1.20	1.15															
125	1.17	1.27	1.38	1.33															
130	1.33	1.42	1.51	1.50															
135	1.45	1.54	1.64	1.66															
140	1.56	1.66	1.75	1.78															
145	1.66	1.74	1.87	1.90															
150	1.76	1.84	2.05	2.03															
155	1.89	1.97	2.19	2.15															
160	2.02	2.08	2.30	2.27															
165	2.14	2.19	2.42	2.37															
170	2.23	2.29	2.53	2.45															
175	2.34	2.37	2.57	2.52															
180	2.54	2.54	2.58	2.56															

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: