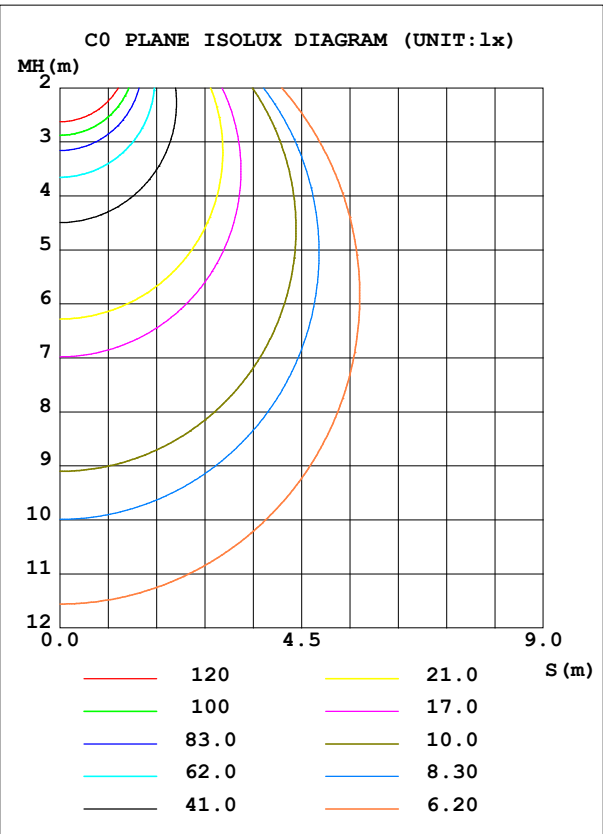
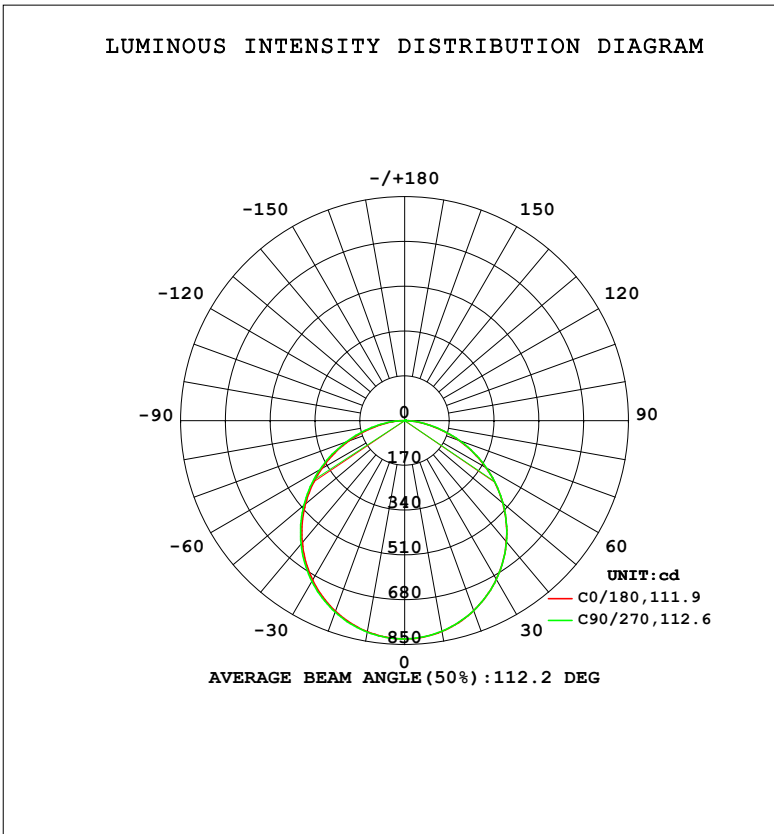


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDWH_3500K	Imax (cd)	828.4	S/MH (C0/180)	1.25
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2366.6	η UP, DN (C0-180)	0.1,49.4
NOMINAL FLUX (lm)	2366.58	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,50.4
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: 2025-11-26

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:

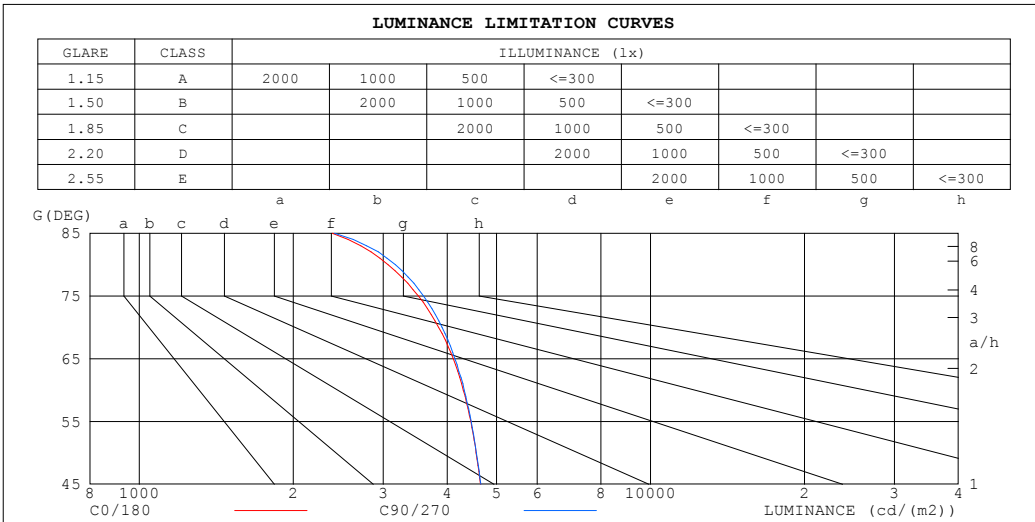
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	812.5	812.0	813.7	815.2					0- 10	78.36	78.36	3.31,3.31
20	767.5	767.0	769.6	773.1					10- 20	224.3	302.7	12.8,12.8
30	695.6	695.8	698.8	704.6					20- 30	339.7	642.4	27.1,27.1
40	600.5	600.9	604.5	612.0					30- 40	409.3	1052	44.4,44.4
50	486.6	487.1	491.7	499.9					40- 50	424.2	1476	62.4,62.4
60	357.3	358.6	363.0	371.7					50- 60	382.9	1859	78.5,78.5
70	218.6	222.1	224.9	235.7					60- 70	291.2	2150	90.8,90.8
80	88.32	91.32	93.16	103.3					70- 80	166.8	2317	97.9,97.9
90	0.1118	0.0940	0.1107	0.4625					80- 90	44.18	2361	99.8,99.8
100	0.2319	0.3096	0.3319	0.2815					90-100	0.1971	2361	99.8,99.8
110	0.5080	0.5857	0.6303	0.5798					100-110	0.4537	2362	99.8,99.8
120	0.7734	0.8674	0.9342	0.8946					110-120	0.7152	2362	99.8,99.8
130	1.017	1.122	1.216	1.182					120-130	0.8969	2363	99.9,99.9
140	1.216	1.309	1.476	1.442					130-140	0.9674	2364	99.9,99.9
150	1.409	1.492	1.708	1.685					140-150	0.9196	2365	99.9,99.9
160	1.624	1.685	1.912	1.922					150-160	0.7735	2366	100,100
170	1.812	1.867	2.139	2.138					160-170	0.5328	2366	100,100
180	2.128	2.105	2.172	2.149					170-180	0.1947	2367	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:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2384	2408
80	3063	3169
75	3513	3598
70	3849	3913
65	4112	4145
60	4304	4321
55	4450	4460
50	4560	4566
45	4648	4653

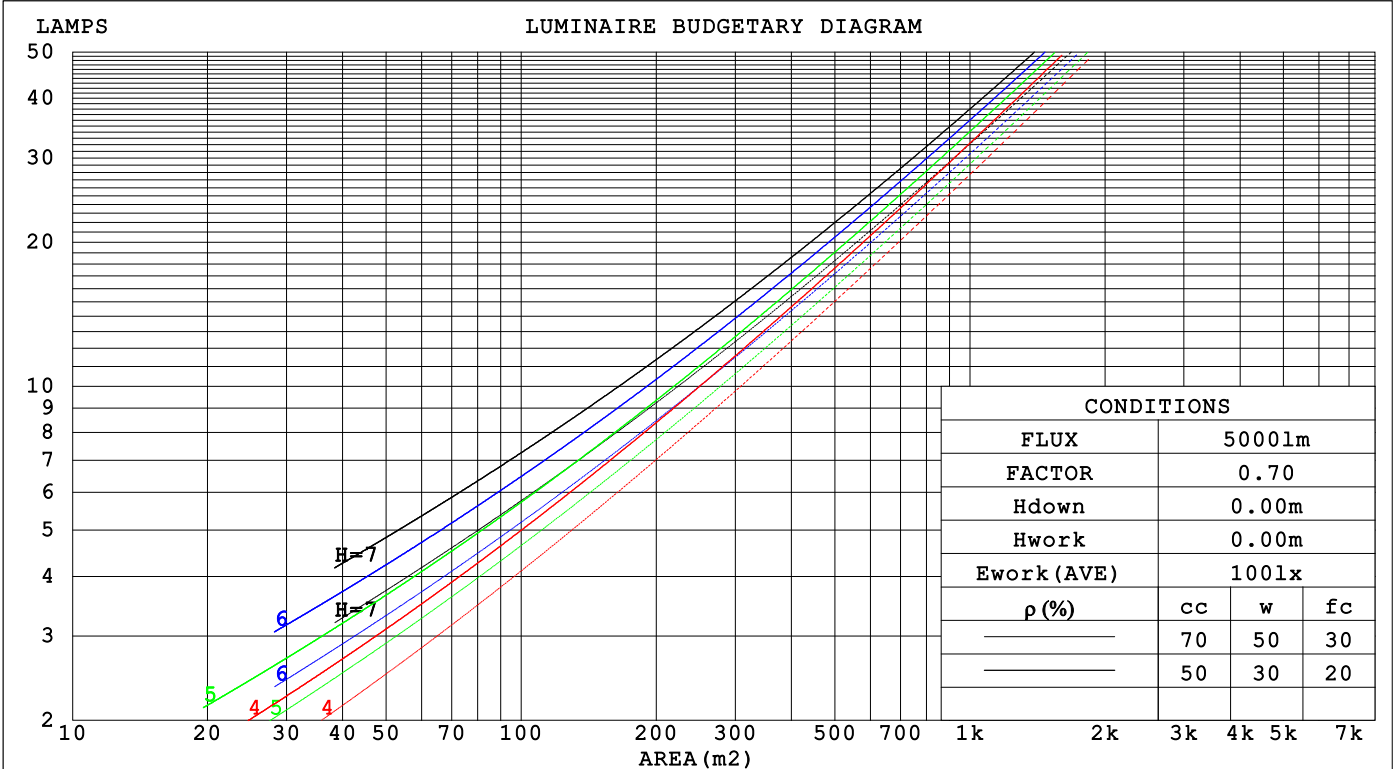
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	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															
	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	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.87	.86	.83
2.0	.90	.84	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.78	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.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	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.39	.32	.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:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz								
Lamp Flux:2366.58x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.: 3500K		
MFR.:			SUR.: 0.46			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	.310	.176	.056	.303	.173	.055	.289	.166	.053	.277	.160	.051	.266	.154	.050	
2.0	.292	.160	.049	.286	.157	.048	.274	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.130	.038	.244	.128	.038	.235	.125	.037	.226	.122	.037	.218	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.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	.083	.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:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz										
Lamp Flux:2366.58x1 lm										
NAME:			TYPE:				WEIGHT:			
SPEC.:			DIM.:				SERIAL No.: 3500K			
MFR.:			SUR.: 0.46				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	18.0	19.5	18.3	19.7	19.9	18.0	19.5	18.3	19.7	20.0
3H	19.5	20.9	19.8	21.1	21.4	19.5	20.9	19.8	21.2	21.4
4H	20.1	21.4	20.4	21.6	21.9	20.1	21.4	20.4	21.7	22.0
6H	20.4	21.7	20.8	22.0	22.3	20.5	21.8	20.8	22.0	22.3
8H	20.6	21.8	20.9	22.1	22.4	20.6	21.8	21.0	22.1	22.4
12H	20.6	21.8	21.0	22.1	22.4	20.7	21.9	21.0	22.2	22.5
4H 2H	18.6	19.9	18.9	20.2	20.5	18.6	20.0	18.9	20.2	20.5
3H	20.3	21.4	20.6	21.7	22.0	20.3	21.5	20.7	21.8	22.1
4H	21.0	22.0	21.3	22.4	22.7	21.0	22.1	21.4	22.4	22.7
6H	21.5	22.4	21.9	22.8	23.1	21.5	22.5	21.9	22.8	23.2
8H	21.6	22.5	22.0	22.9	23.3	21.7	22.6	22.1	23.0	23.4
12H	21.7	22.5	22.2	22.9	23.3	21.8	22.6	22.2	23.0	23.4
8H 4H	21.2	22.1	21.6	22.5	22.9	21.3	22.1	21.7	22.5	22.9
6H	21.9	22.6	22.3	23.0	23.4	21.9	22.7	22.4	23.1	23.5
8H	22.1	22.8	22.6	23.2	23.6	22.2	22.8	22.6	23.3	23.7
12H	22.3	22.8	22.7	23.3	23.8	22.3	22.9	22.8	23.3	23.8
12H 4H	21.2	22.0	21.7	22.4	22.8	21.3	22.1	21.7	22.5	22.9
6H	21.9	22.6	22.4	23.0	23.5	22.0	22.6	22.4	23.1	23.5
8H	22.2	22.8	22.7	23.2	23.7	22.3	22.8	22.7	23.3	23.8
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, 2367 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.0)
 Area: 0.166 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

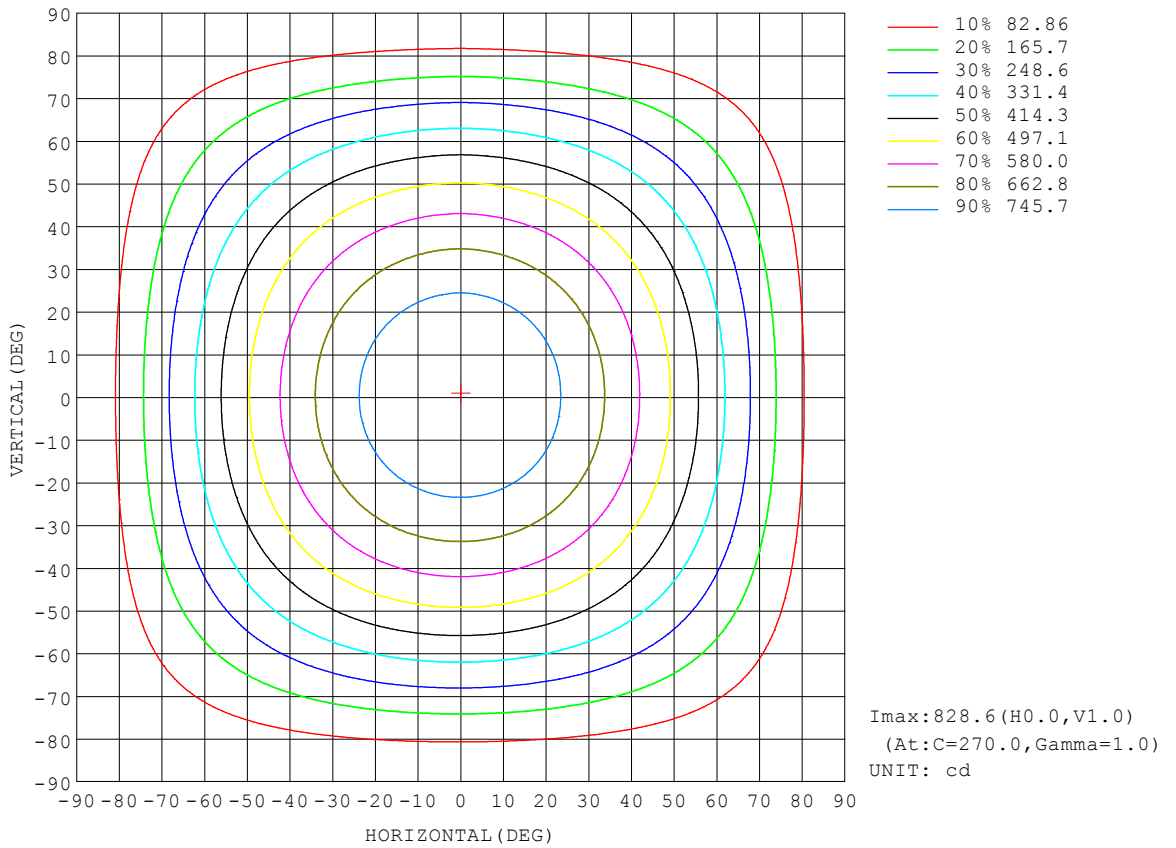
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	69	62
2.00	95	86	80	93	85	79	89	83	78	70
2.50	99	91	85	97	90	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:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

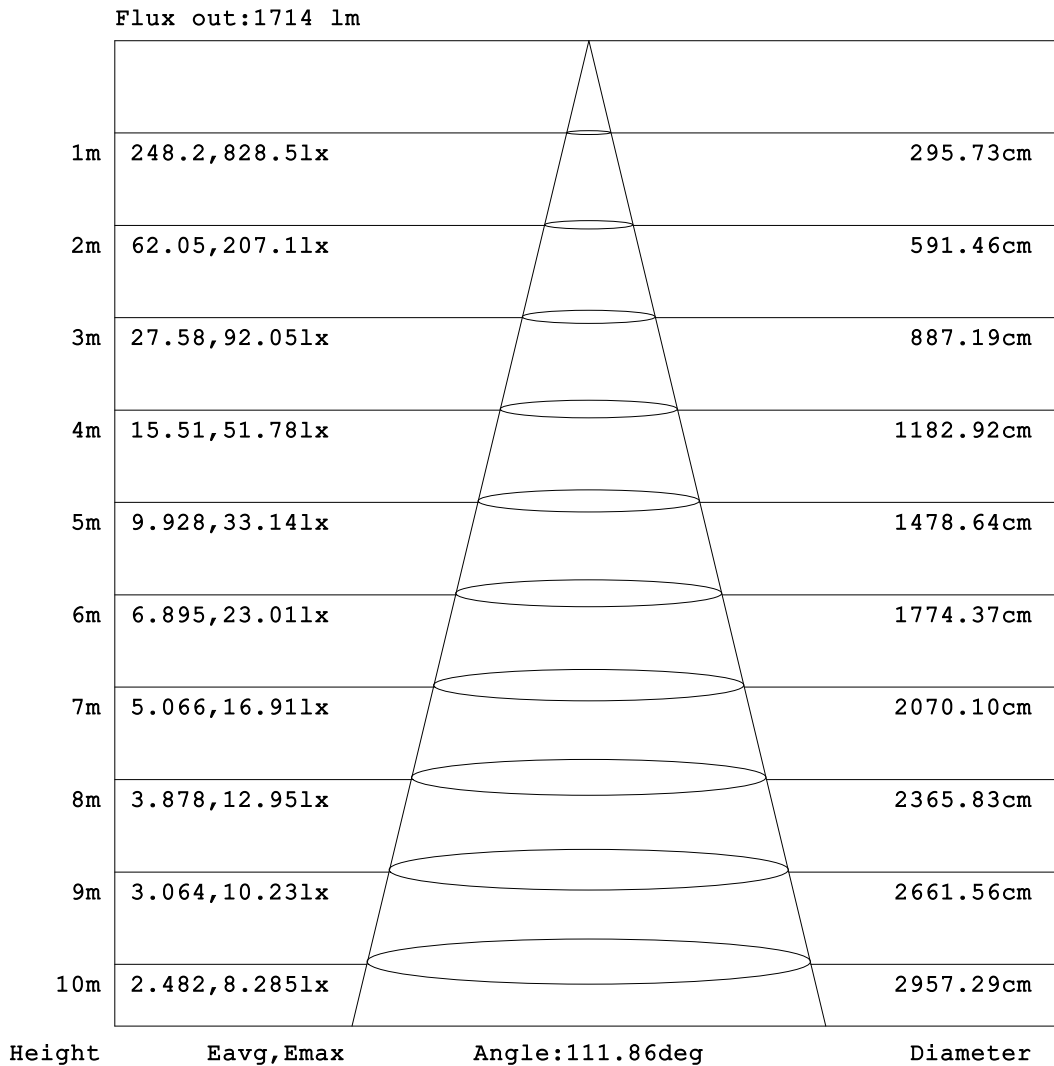


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



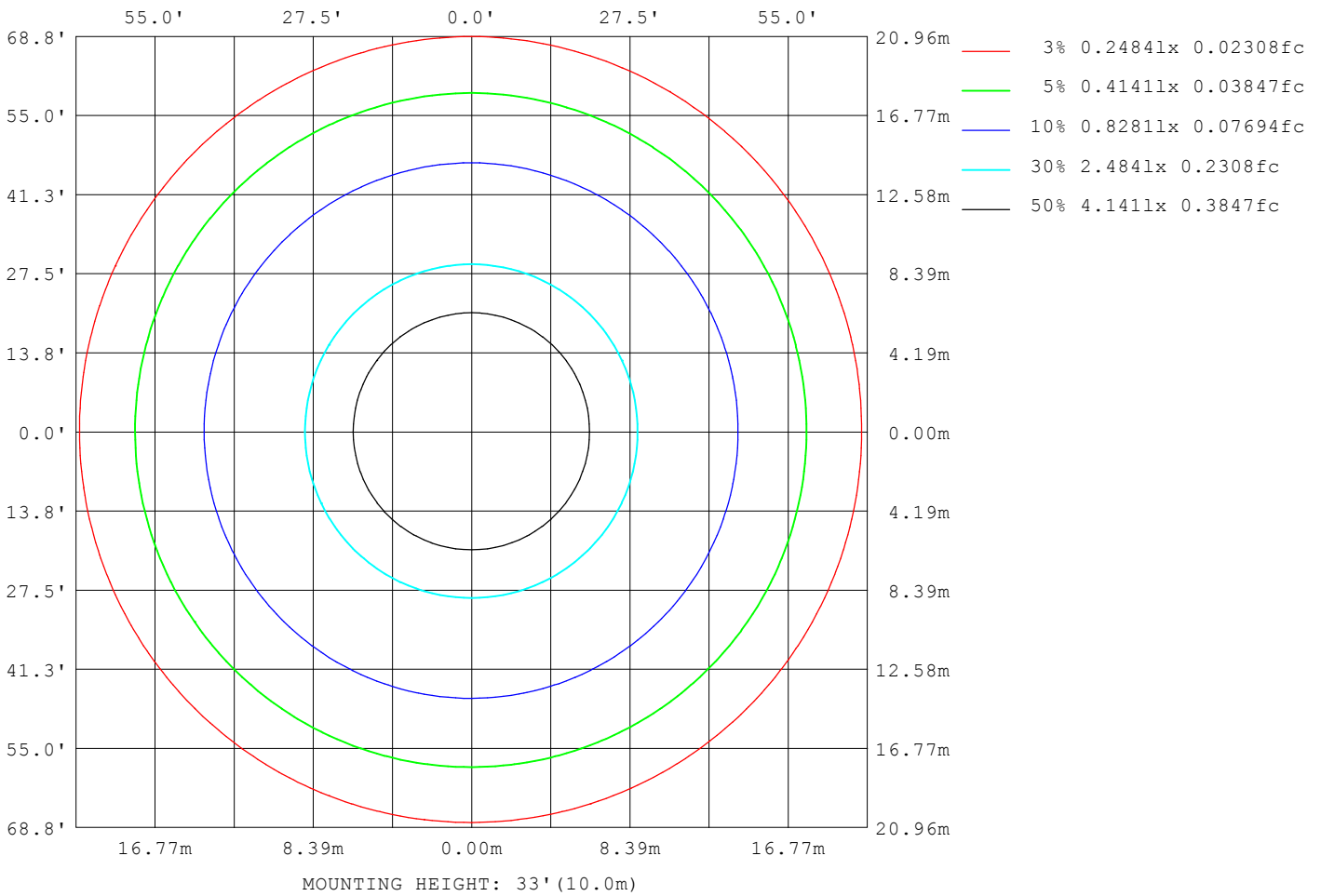
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

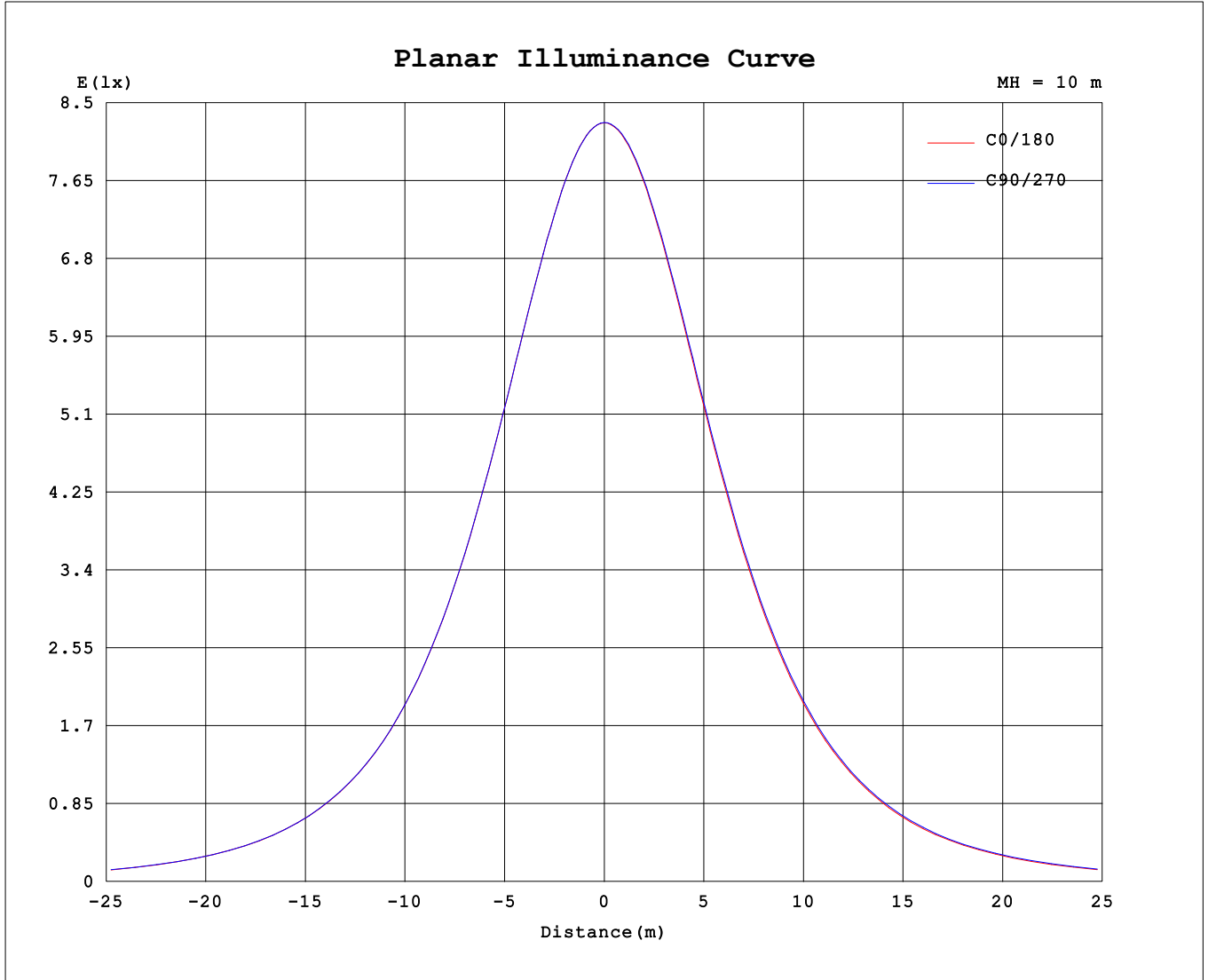
AvgL	cd/m2
L_0~180 (65) av	4155
L_0~180 (75) av	3581
L_0~180 (85) av	2504
L_90~270 (65) av	4240
L_90~270 (75) av	3750
L_90~270 (85) av	2767
L_45 (65) av	4211
L_45 (75) av	3691
L_45 (85) av	2676

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-26

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:2025-11-26

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:120.03V I:0.2593A P:30.696W PF:0.9864 Freq:59.98Hz Lamp Flux:2366.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	828	828	828	828															
5	824	824	825	826															
10	813	812	814	815															
15	794	793	795	798															
20	767	767	770	773															
25	735	734	737	742															
30	696	696	699	705															
35	651	651	654	661															
40	600	601	604	612															
45	546	546	550	558															
50	487	487	492	500															
55	424	425	429	437															
60	357	359	363	372															
65	289	291	294	304															
70	219	222	225	236															
75	151	155	157	168															
80	88.3	91.3	93.2	103															
85	34.5	34.8	38.0	45.2															
90	0.11	0.09	0.11	0.46															
95	0.12	0.18	0.21	0.14															
100	0.23	0.31	0.33	0.28															
105	0.37	0.45	0.48	0.43															
110	0.51	0.59	0.63	0.58															
115	0.64	0.73	0.78	0.73															
120	0.77	0.87	0.93	0.89															
125	0.90	0.99	1.08	1.04															
130	1.02	1.12	1.22	1.18															
135	1.12	1.22	1.35	1.32															
140	1.22	1.31	1.48	1.44															
145	1.32	1.40	1.60	1.56															
150	1.41	1.49	1.71	1.68															
155	1.51	1.59	1.82	1.79															
160	1.62	1.68	1.91	1.92															
165	1.72	1.79	2.02	2.04															
170	1.81	1.87	2.14	2.14															
175	1.91	1.96	2.22	2.15															
180	2.13	2.10	2.17	2.15															

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