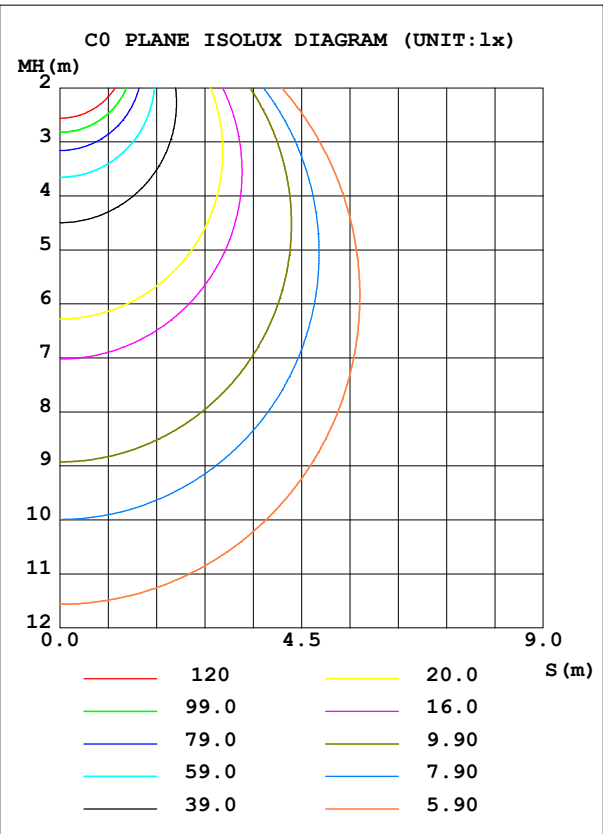
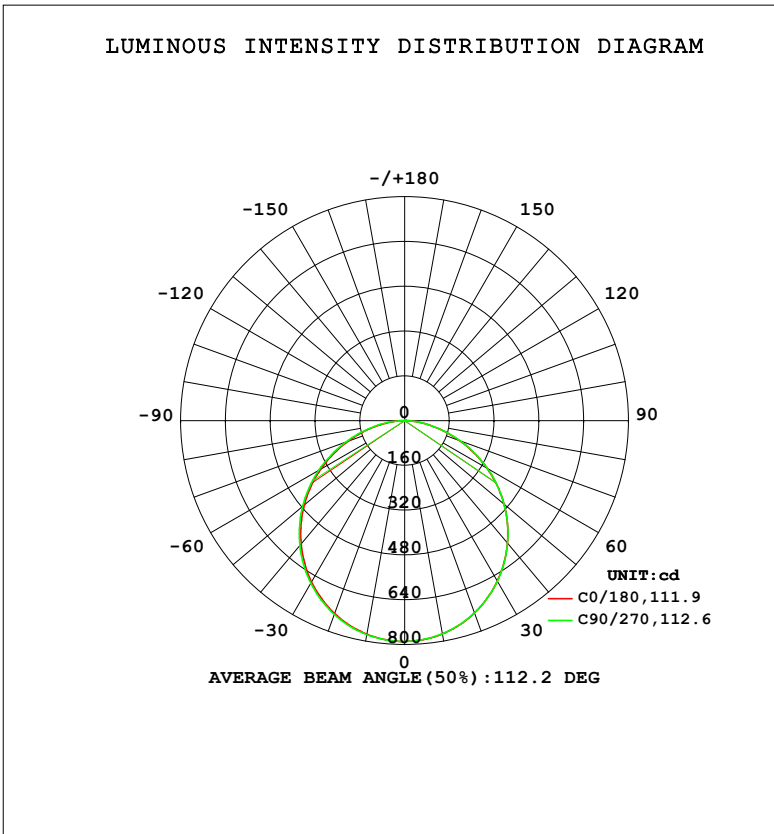


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDWH_3000K	Imax (cd)	788.8	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)	2253.4	η UP, DN (C0-180)	0.1,49.4
NOMINAL FLUX (lm)	2253.43	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:

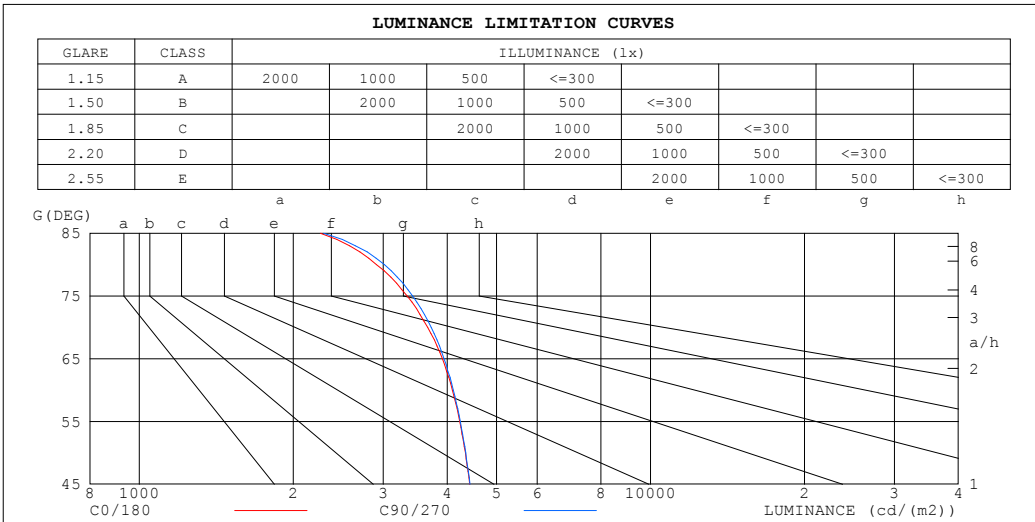
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	773.9	773.3	775.1	776.5					0- 10	74.62	74.62	3.31,3.31
20	730.9	730.6	733.0	736.3					10- 20	213.6	288.3	12.8,12.8
30	662.3	662.6	665.4	670.8					20- 30	323.5	611.8	27.1,27.1
40	571.8	572.2	575.7	582.8					30- 40	389.7	1002	44.4,44.4
50	463.5	463.9	468.2	476.0					40- 50	403.9	1405	62.4,62.4
60	340.2	341.4	345.9	353.9					50- 60	364.5	1770	78.5,78.5
70	208.3	211.4	214.2	224.3					60- 70	277.3	2047	90.8,90.8
80	83.95	86.92	88.80	98.30					70- 80	158.9	2206	97.9,97.9
90	0.0995	0.0885	0.1051	0.4326					80- 90	42.05	2248	99.8,99.8
100	0.2098	0.2875	0.3207	0.2649					90-100	0.1819	2248	99.8,99.8
110	0.4695	0.5581	0.5917	0.5466					100-110	0.4270	2249	99.8,99.8
120	0.7346	0.8287	0.8790	0.8503					110-120	0.6752	2249	99.8,99.8
130	0.9559	1.061	1.155	1.121					120-130	0.8496	2250	99.9,99.9
140	1.155	1.243	1.399	1.364					130-140	0.9172	2251	99.9,99.9
150	1.332	1.414	1.625	1.596					140-150	0.8715	2252	99.9,99.9
160	1.542	1.608	1.813	1.823					150-160	0.7351	2253	100,100
170	1.724	1.784	2.034	2.022					160-170	0.5064	2253	100,100
180	2.012	1.994	2.067	2.033					170-180	0.1850	2253	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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2262	2294
80	2912	3016
75	3341	3427
70	3668	3725
65	3915	3946
60	4098	4114
55	4236	4247
50	4342	4349
45	4426	4431

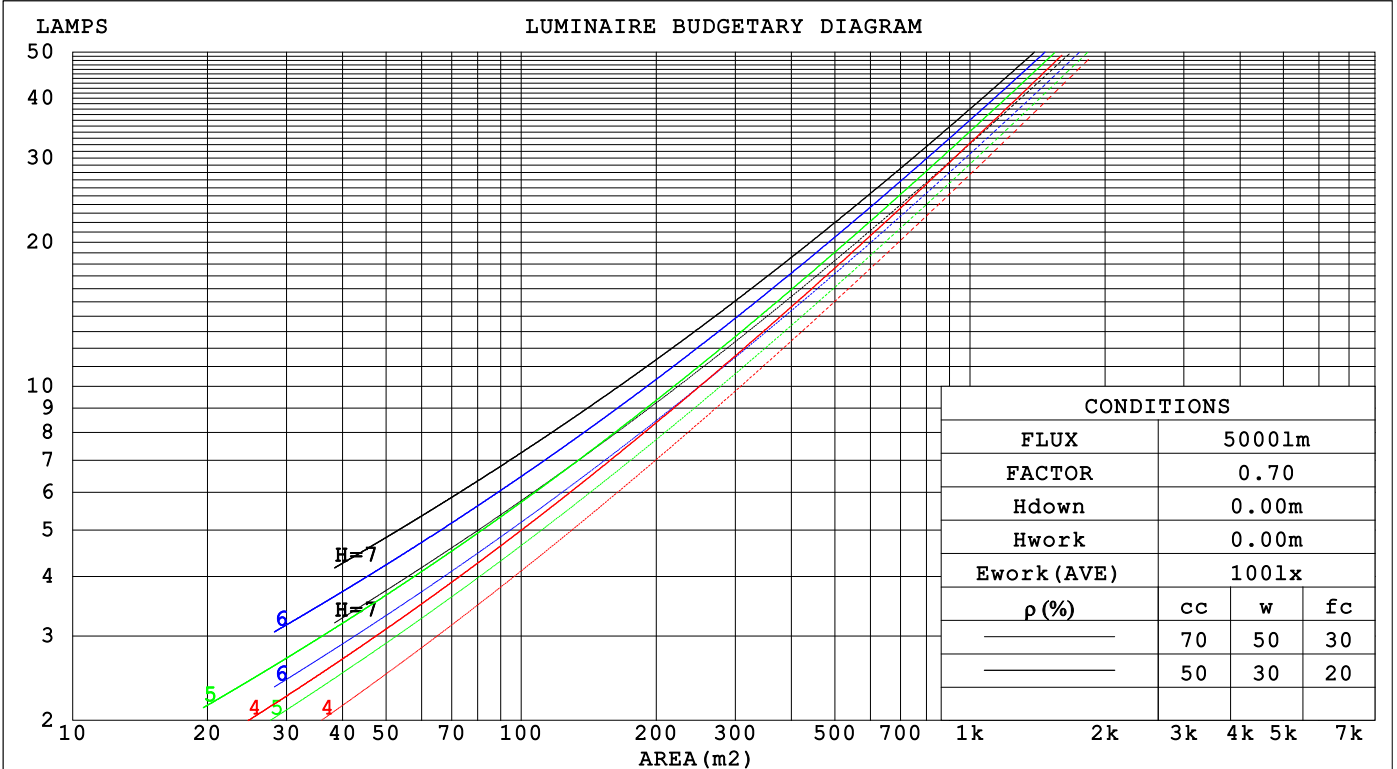
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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 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	.65	.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	.30
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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz		
Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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	17.8	19.4	18.1	19.6	19.8	17.9	19.4	18.1	19.6	19.8
3H	19.3	20.7	19.6	21.0	21.2	19.3	20.8	19.6	21.0	21.2
4H	19.9	21.2	20.2	21.5	21.7	19.9	21.3	20.2	21.5	21.8
6H	20.3	21.5	20.6	21.8	22.1	20.3	21.6	20.7	21.9	22.2
8H	20.4	21.6	20.7	21.9	22.2	20.5	21.7	20.8	22.0	22.3
12H	20.4	21.6	20.8	21.9	22.2	20.5	21.7	20.9	22.0	22.3
4H 2H	18.4	19.8	18.8	20.0	20.3	18.4	19.8	18.8	20.0	20.3
3H	20.1	21.3	20.4	21.6	21.9	20.1	21.3	20.5	21.6	21.9
4H	20.8	21.9	21.2	22.2	22.5	20.8	21.9	21.2	22.2	22.6
6H	21.3	22.2	21.7	22.6	23.0	21.4	22.3	21.8	22.7	23.0
8H	21.5	22.3	21.9	22.7	23.1	21.5	22.4	21.9	22.8	23.2
12H	21.5	22.4	22.0	22.8	23.2	21.6	22.4	22.1	22.8	23.2
8H 4H	21.0	21.9	21.5	22.3	22.7	21.1	22.0	21.5	22.3	22.7
6H	21.7	22.4	22.1	22.8	23.3	21.8	22.5	22.2	22.9	23.3
8H	21.9	22.6	22.4	23.0	23.5	22.0	22.7	22.5	23.1	23.5
12H	22.1	22.6	22.6	23.1	23.6	22.2	22.7	22.6	23.2	23.7
12H 4H	21.0	21.9	21.5	22.3	22.7	21.1	21.9	21.5	22.3	22.7
6H	21.7	22.4	22.2	22.8	23.3	21.8	22.5	22.3	22.9	23.3
8H	22.0	22.6	22.5	23.0	23.5	22.1	22.6	22.6	23.1	23.6

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, 2253 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.8)
Area: 0.166 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:8.800m [K=1.0000]
Test Date:2025-11-26	Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

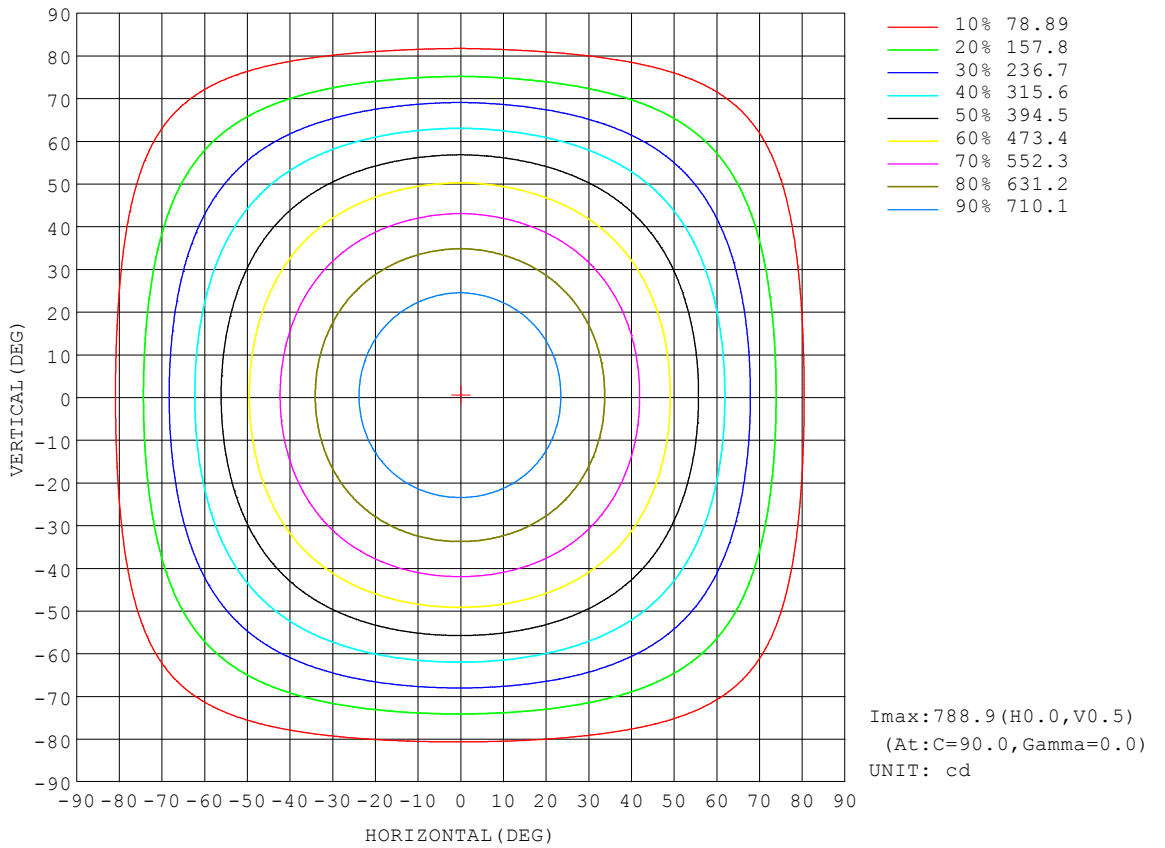
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	82	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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

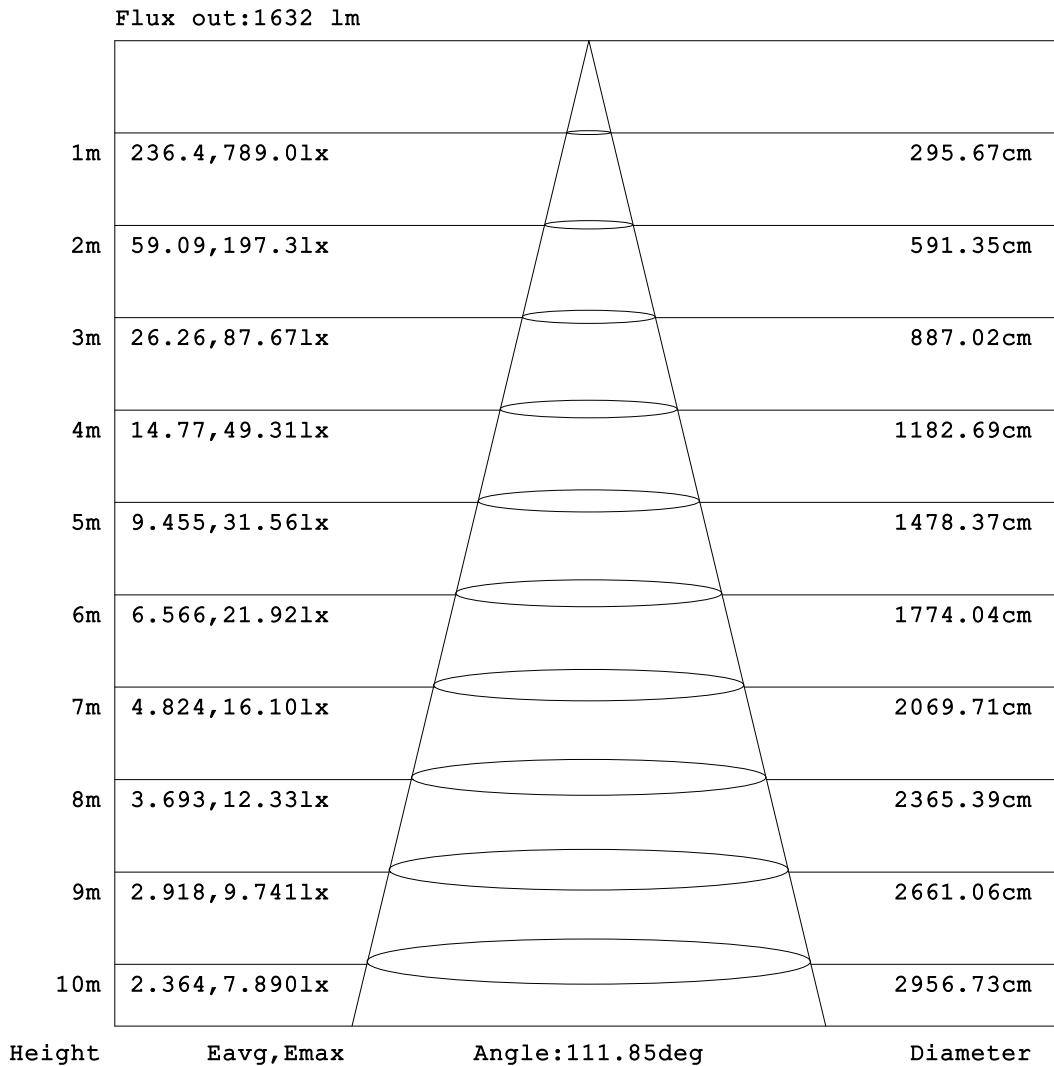


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-11-26

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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:



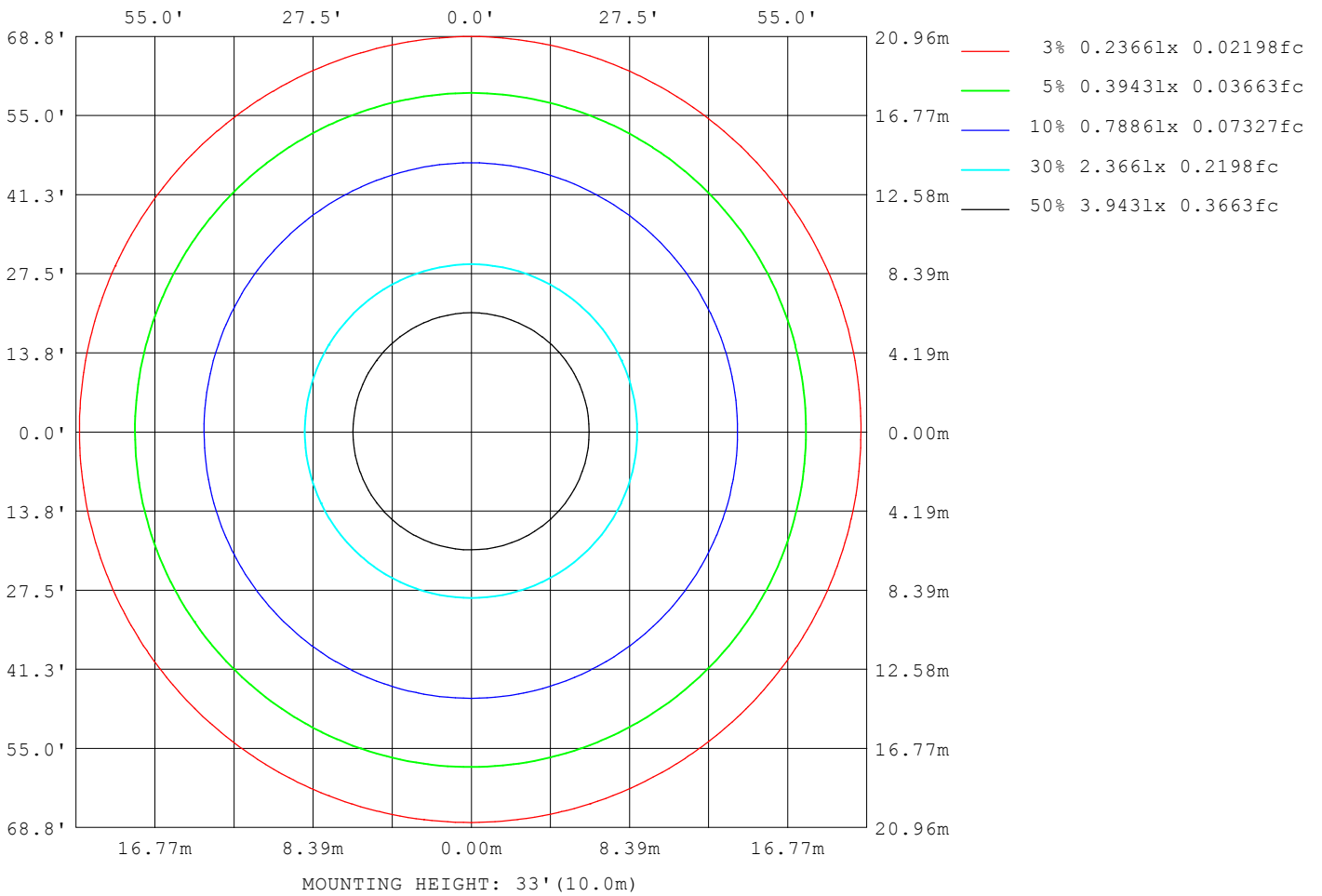
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

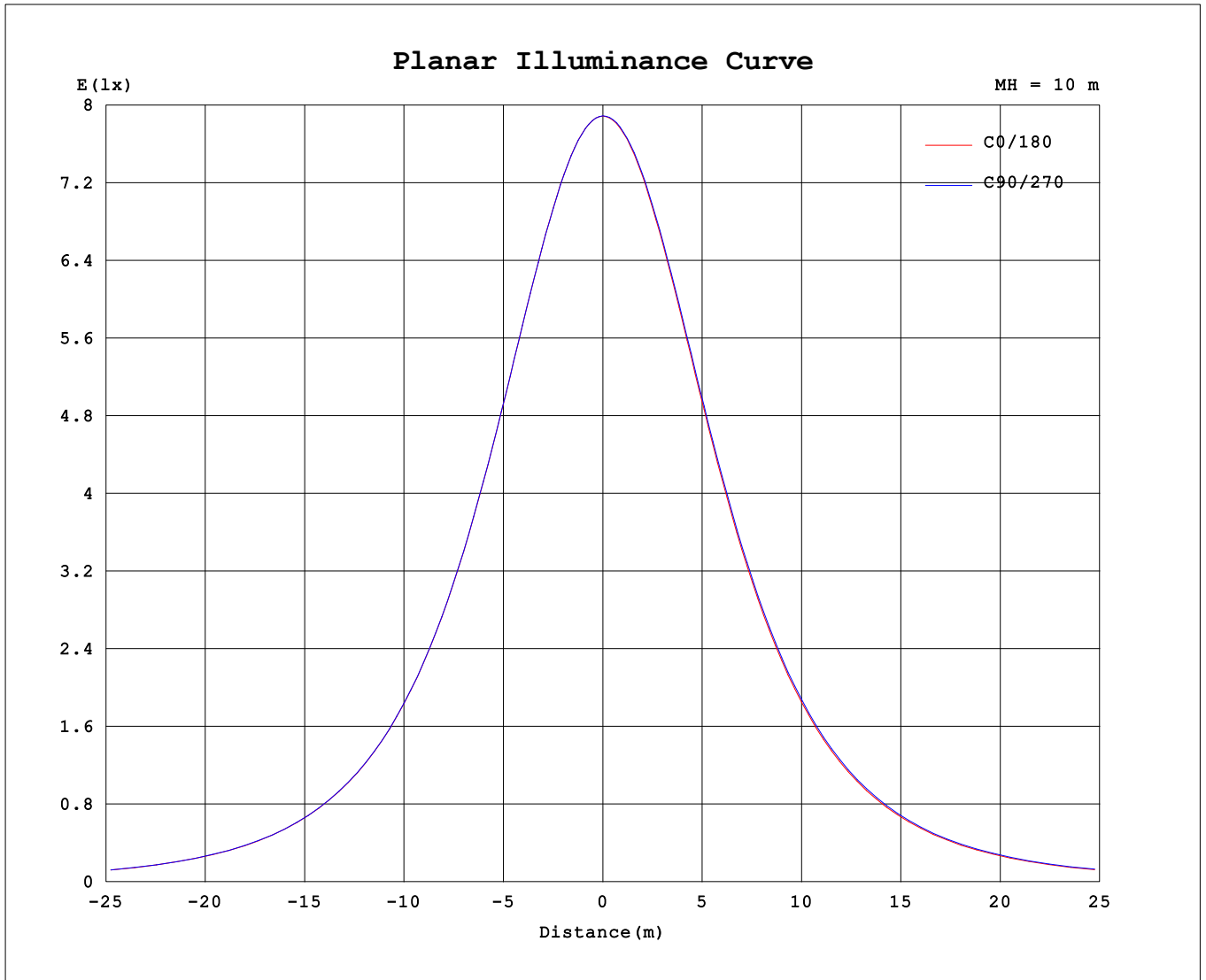
AvgL	cd/m2
L_0~180 (65) av	3955
L_0~180 (75) av	3409
L_0~180 (85) av	2381
L_90~270 (65) av	4036
L_90~270 (75) av	3574
L_90~270 (85) av	2632
L_45 (65) av	4008
L_45 (75) av	3516
L_45 (85) av	2545

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:0.2640A P:31.263W PF:0.9865 Freq:59.98Hz Lamp Flux:2253.43x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	789	789	789	789															
5	785	785	785	786															
10	774	773	775	776															
15	756	755	757	760															
20	731	731	733	736															
25	700	700	702	707															
30	662	663	665	671															
35	620	620	623	629															
40	572	572	576	583															
45	520	520	524	532															
50	463	464	468	476															
55	403	404	408	417															
60	340	341	346	354															
65	275	277	280	290															
70	208	211	214	224															
75	144	147	149	160															
80	83.9	86.9	88.8	98.3															
85	32.7	33.2	36.2	43.0															
90	0.10	0.09	0.11	0.43															
95	0.10	0.17	0.20	0.13															
100	0.21	0.29	0.32	0.26															
105	0.35	0.43	0.45	0.40															
110	0.47	0.56	0.59	0.55															
115	0.60	0.69	0.75	0.70															
120	0.73	0.83	0.88	0.85															
125	0.85	0.94	1.03	0.98															
130	0.96	1.06	1.16	1.12															
135	1.07	1.16	1.28	1.24															
140	1.15	1.24	1.40	1.36															
145	1.24	1.33	1.51	1.48															
150	1.33	1.41	1.62	1.60															
155	1.44	1.51	1.72	1.71															
160	1.54	1.61	1.81	1.82															
165	1.64	1.70	1.91	1.94															
170	1.72	1.78	2.03	2.02															
175	1.81	1.87	2.10	2.05															
180	2.01	1.99	2.07	2.03															

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: