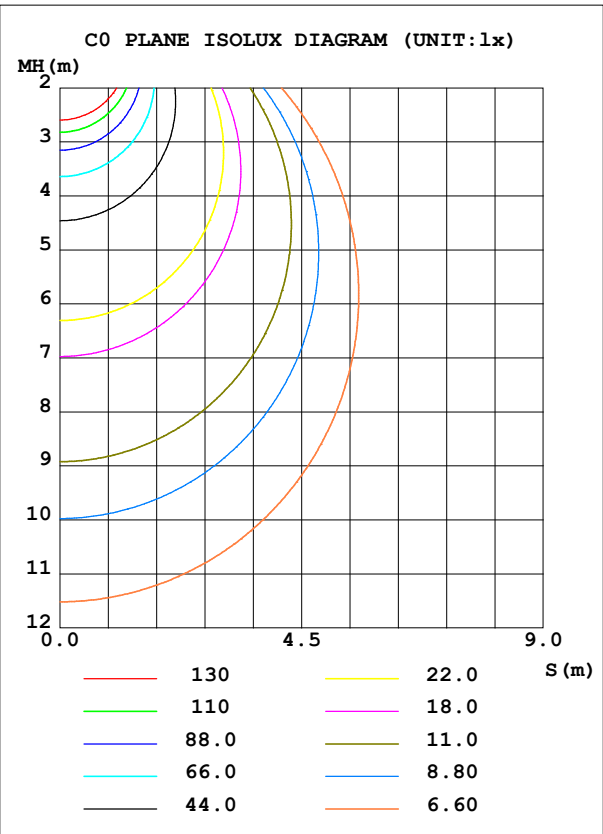
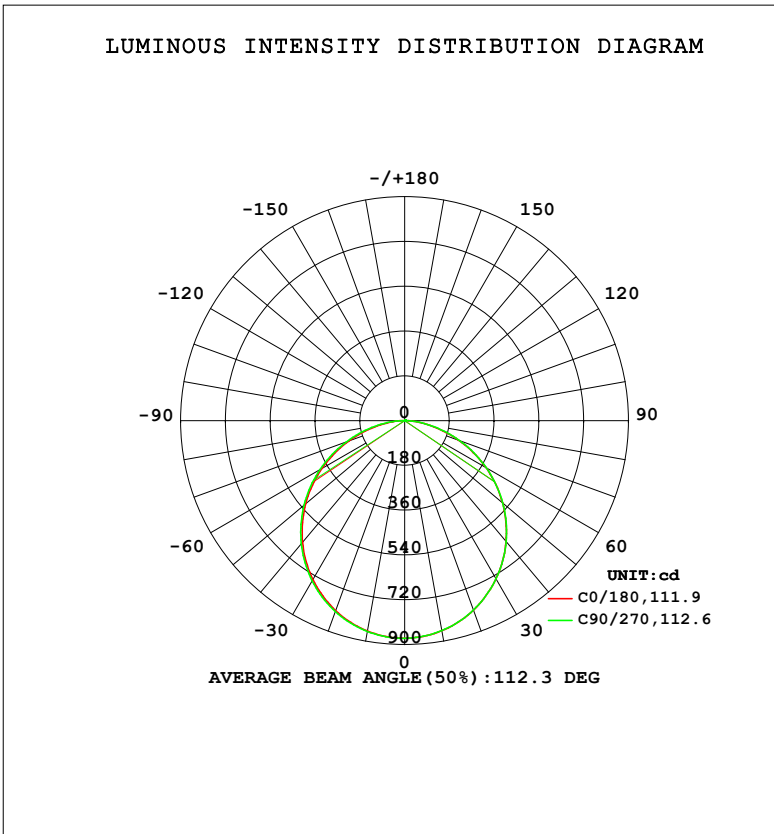


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDWH_5000K	Imax (cd)	874.4	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)	2499.5	η UP, DN (C0-180)	0.1,49.4
NOMINAL FLUX (lm)	2499.49	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:

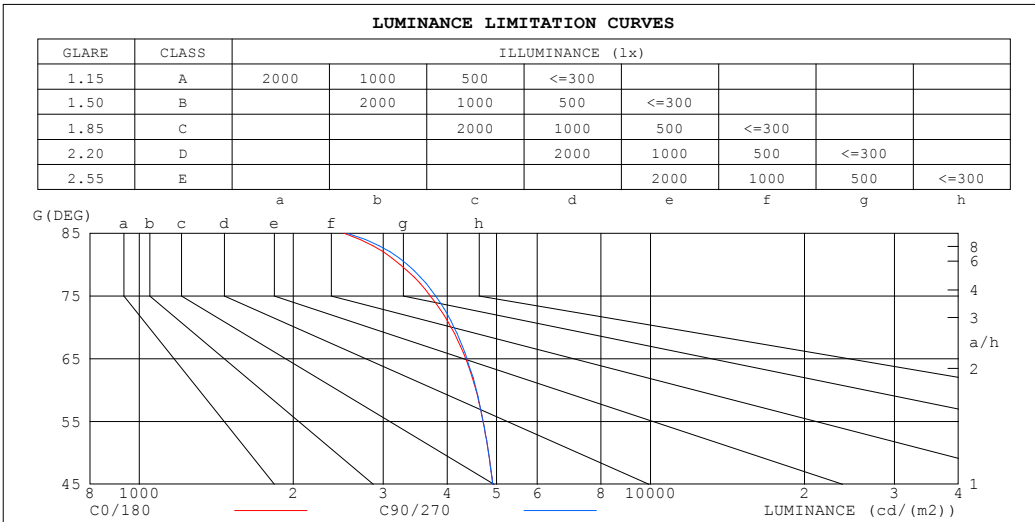
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	857.7	857.2	859.0	860.4					0- 10	82.71	82.71	3.31,3.31
20	810.0	809.8	812.6	816.2					10- 20	236.8	319.5	12.8,12.8
30	734.4	734.8	737.9	743.9					20- 30	358.6	678.1	27.1,27.1
40	634.2	634.8	638.7	646.3					30- 40	432.2	1110	44.4,44.4
50	513.9	514.6	519.4	528.0					40- 50	448.0	1558	62.3,62.3
60	377.5	378.9	383.7	392.9					50- 60	404.5	1963	78.5,78.5
70	231.0	234.6	237.7	248.9					60- 70	307.7	2270	90.8,90.8
80	93.23	96.63	98.48	109.1					70- 80	176.3	2447	97.9,97.9
90	1.152	0.1053	0.1325	0.4877					80- 90	46.68	2493	99.8,99.8
100	0.2645	0.3266	0.3590	0.3040					90-100	0.2886	2494	99.8,99.8
110	0.5296	0.6253	0.6682	0.6247					100-110	0.4867	2494	99.8,99.8
120	0.8220	0.9239	0.9937	0.9456					110-120	0.7629	2495	99.8,99.8
130	1.081	1.189	1.292	1.250					120-130	0.9540	2496	99.9,99.9
140	1.297	1.394	1.562	1.537					130-140	1.027	2497	99.9,99.9
150	1.490	1.577	1.805	1.770					140-150	0.9735	2498	99.9,99.9
160	1.722	1.787	2.015	2.041					150-160	0.8181	2499	100,100
170	1.909	1.964	2.263	2.257					160-170	0.5633	2499	100,100
180	2.246	2.235	2.296	2.279					170-180	0.2056	2499	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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2517	2549
80	3238	3349
75	3708	3800
70	4073	4127
65	4349	4374
60	4554	4561
55	4705	4707
50	4821	4817
45	4914	4910

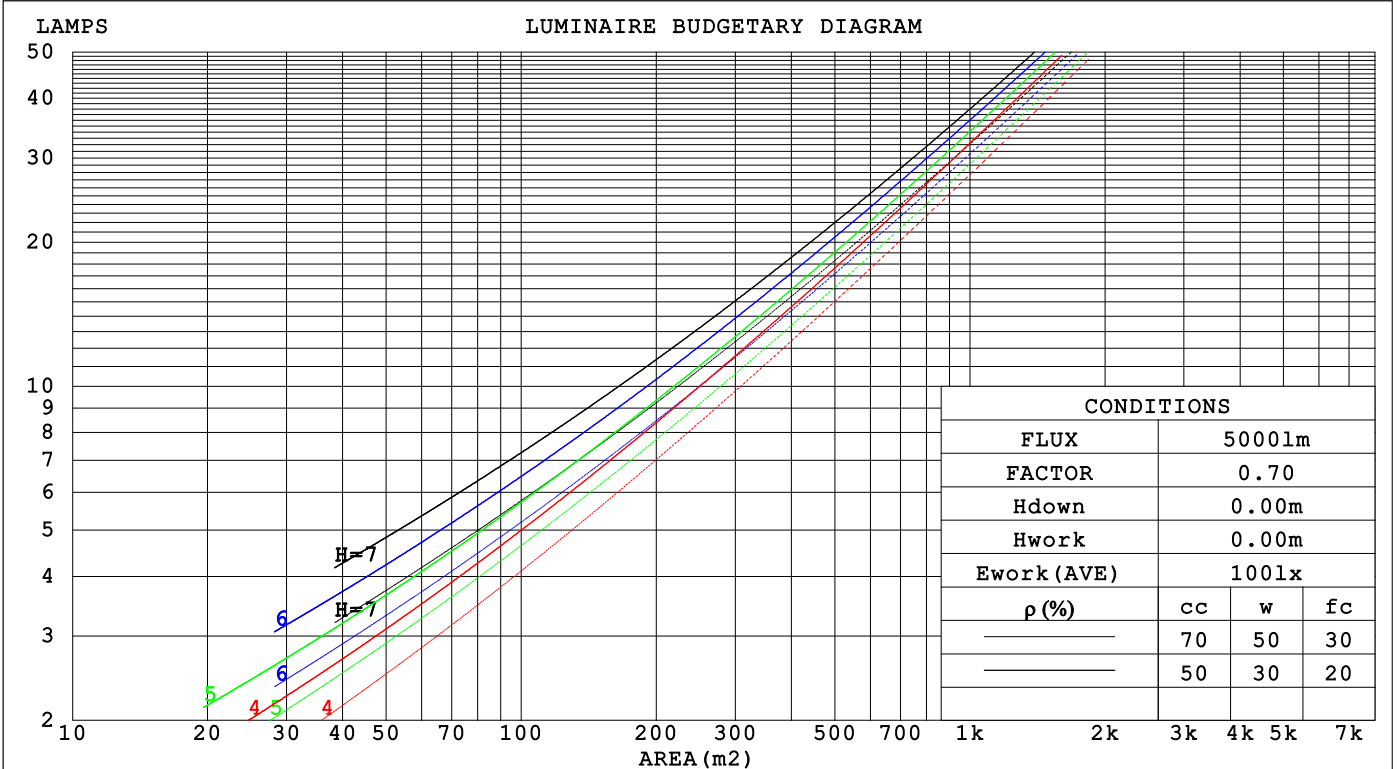
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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	.99	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.87	.86	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.78	.75	.71	.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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz								
Lamp Flux:2499.49x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.: 5000K		
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	.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	.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	.012	
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	.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	.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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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	18.2	19.7	18.5	19.9	20.1	18.2	19.7	18.5	19.9	20.1
3H	19.7	21.1	20.0	21.3	21.6	19.7	21.1	20.0	21.3	21.6
4H	20.2	21.6	20.6	21.8	22.1	20.3	21.6	20.6	21.9	22.1
6H	20.6	21.9	21.0	22.2	22.5	20.7	22.0	21.0	22.2	22.5
8H	20.7	22.0	21.1	22.3	22.6	20.8	22.0	21.2	22.3	22.6
12H	20.8	22.0	21.2	22.3	22.6	20.9	22.0	21.2	22.3	22.7
4H 2H	18.8	20.1	19.1	20.4	20.7	18.8	20.1	19.1	20.4	20.7
3H	20.5	21.6	20.8	21.9	22.2	20.5	21.7	20.8	22.0	22.3
4H	21.2	22.2	21.5	22.5	22.9	21.2	22.3	21.6	22.6	22.9
6H	21.7	22.6	22.1	23.0	23.3	21.7	22.7	22.1	23.0	23.4
8H	21.8	22.7	22.2	23.1	23.5	21.9	22.8	22.3	23.1	23.5
12H	21.9	22.7	22.3	23.1	23.5	22.0	22.8	22.4	23.2	23.6
8H 4H	21.4	22.3	21.8	22.7	23.1	21.4	22.3	21.9	22.7	23.1
6H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.6	23.3	23.7
8H	22.3	22.9	22.8	23.4	23.8	22.4	23.0	22.8	23.4	23.9
12H	22.5	23.0	22.9	23.5	24.0	22.5	23.1	23.0	23.5	24.0
12H 4H	21.4	22.2	21.8	22.6	23.0	21.4	22.3	21.9	22.7	23.1
6H	22.1	22.8	22.6	23.2	23.6	22.2	22.8	22.6	23.2	23.7
8H	22.4	22.9	22.9	23.4	23.9	22.4	23.0	22.9	23.5	23.9
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, 2499 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.2)
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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

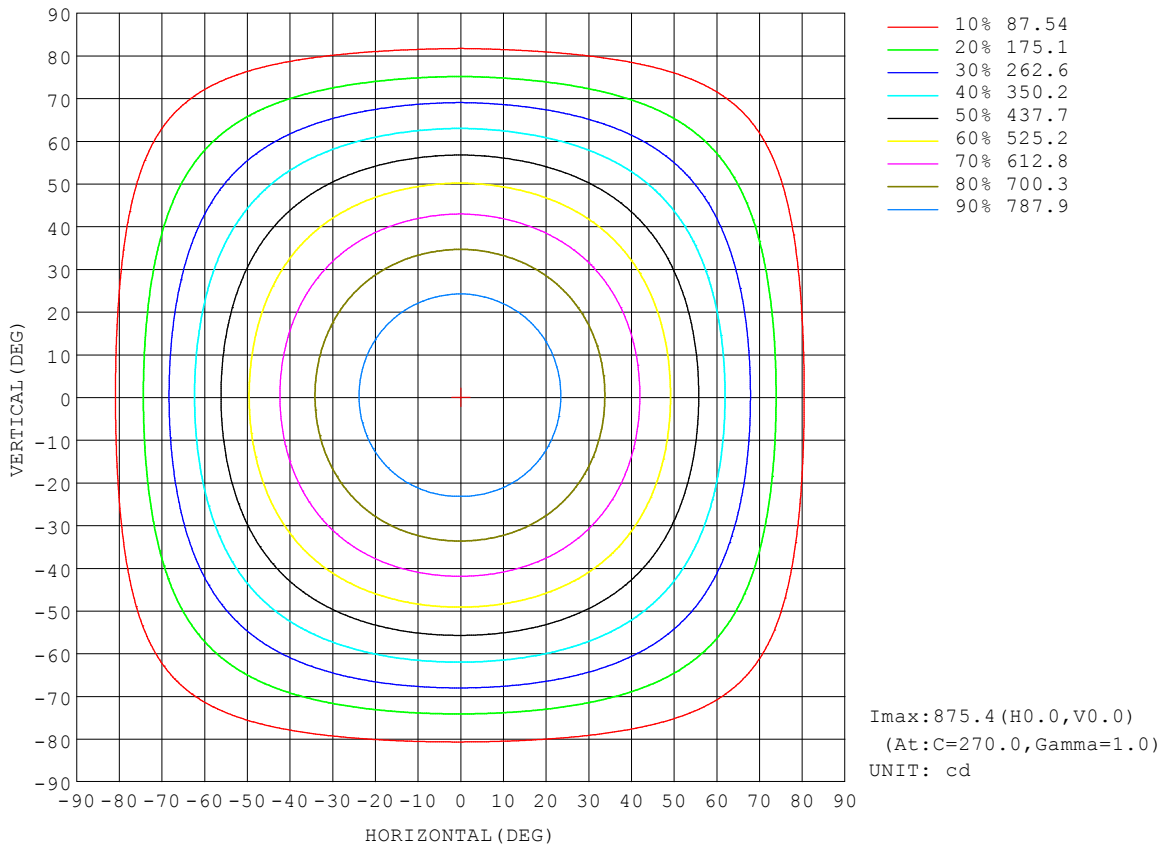
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	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	77	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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

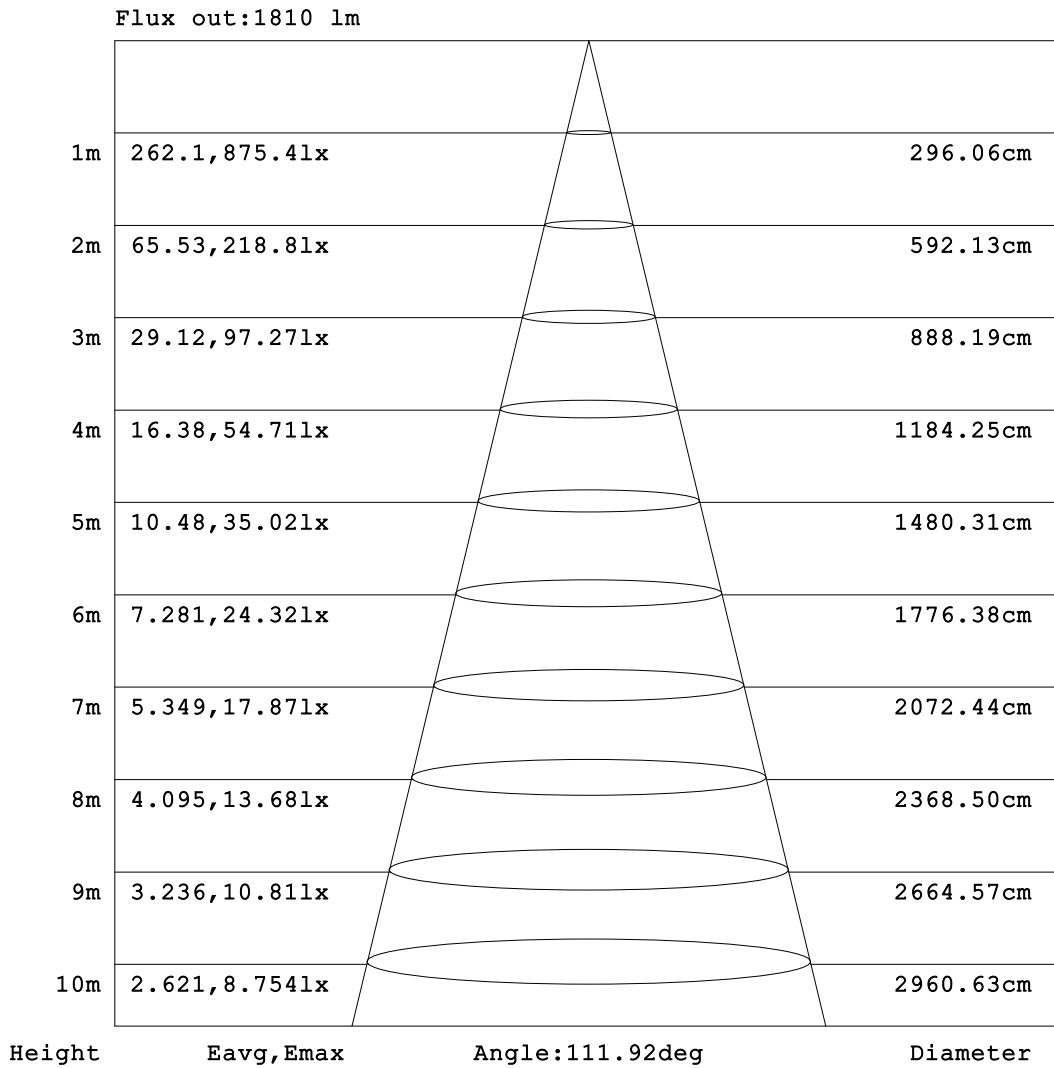


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-26

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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:



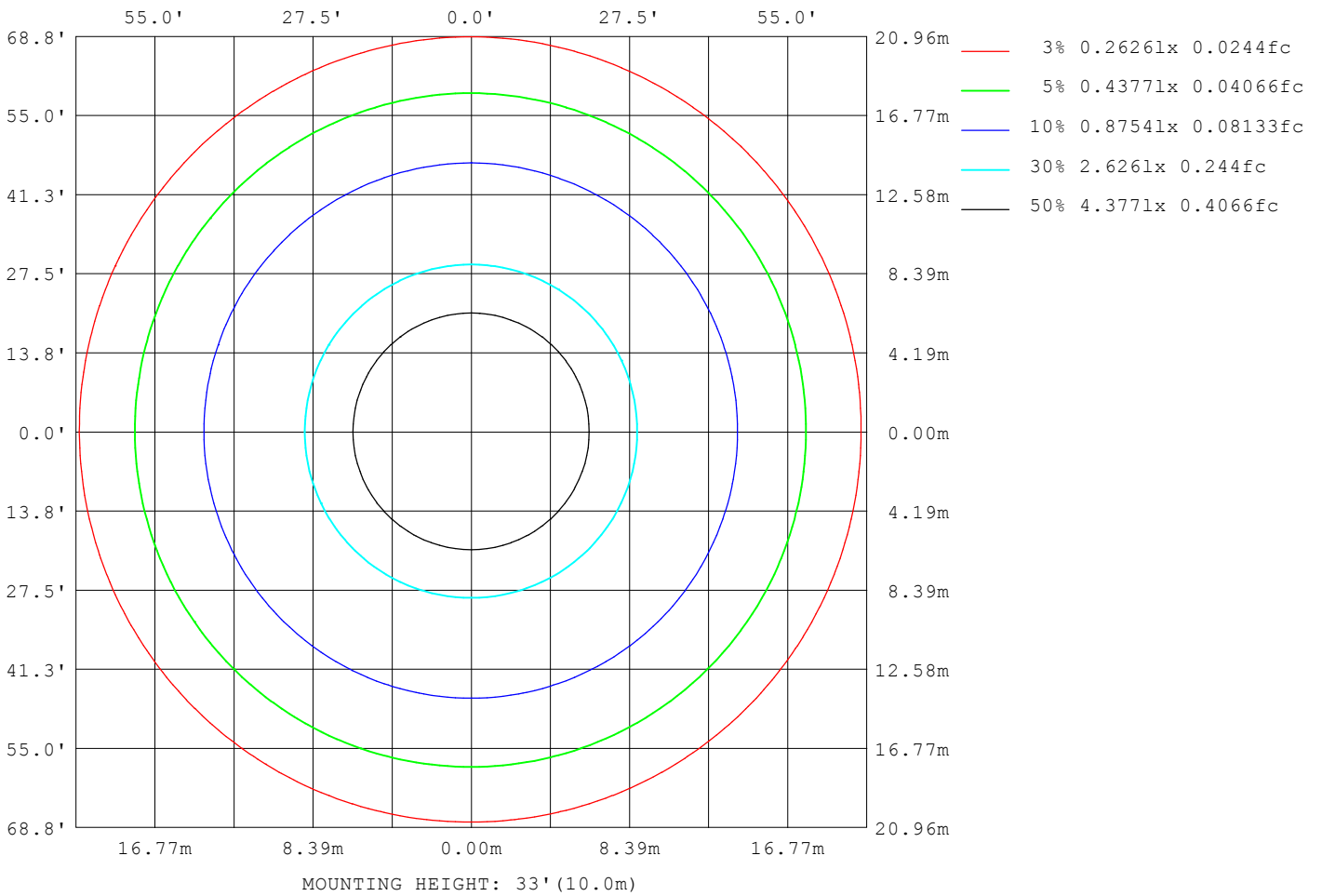
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

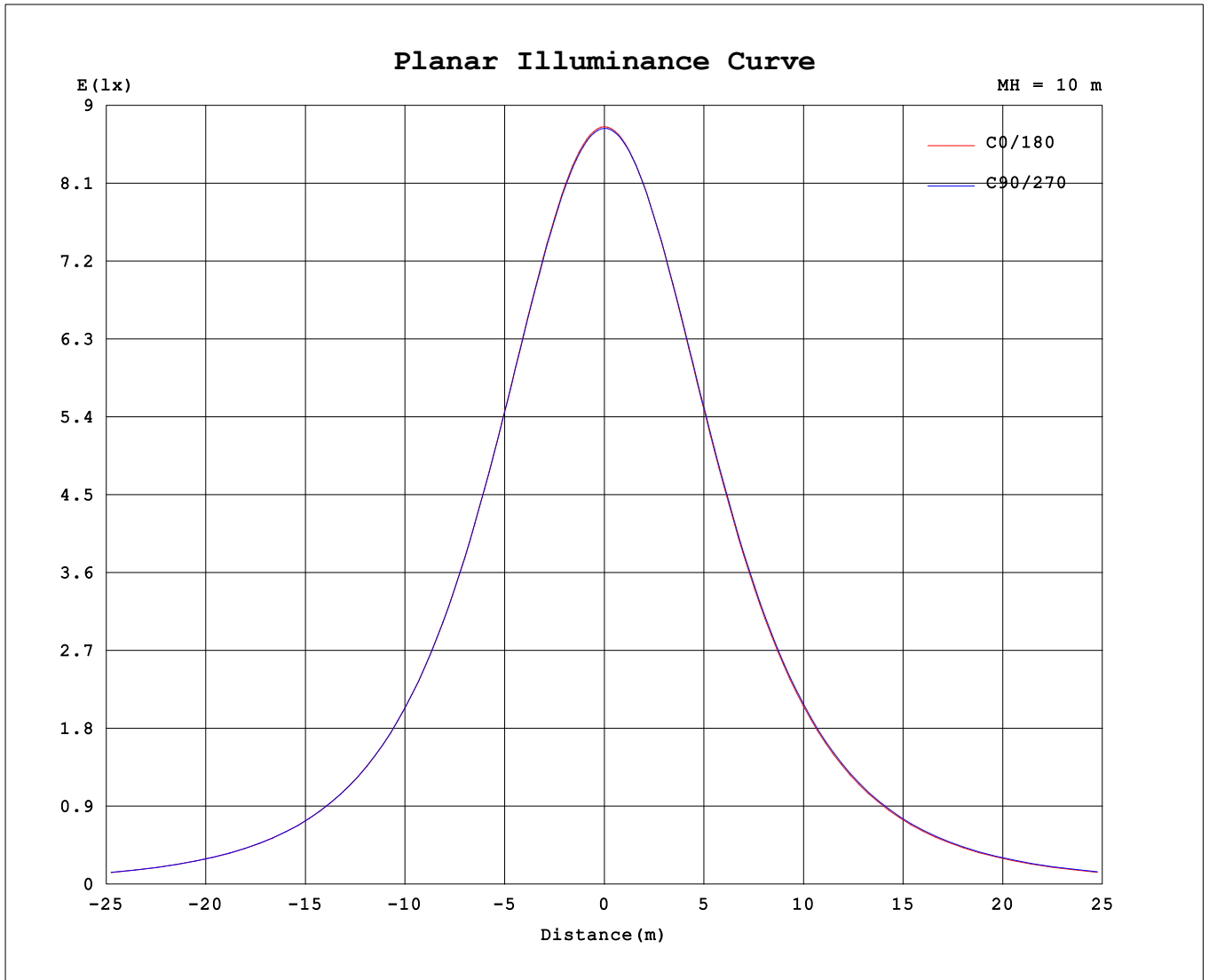
AvgL	cd/m2
L_0~180 (65) av	4390
L_0~180 (75) av	3781
L_0~180 (85) av	2644
L_90~270 (65) av	4480
L_90~270 (75) av	3964
L_90~270 (85) av	2925
L_45 (65) av	4449
L_45 (75) av	3900
L_45 (85) av	2828

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:120.05V I:0.2642A P:31.294W PF:0.9866 Freq:59.98Hz Lamp Flux:2499.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	874	874	874	874															
5	870	870	871	871															
10	858	857	859	860															
15	838	837	839	842															
20	810	810	813	816															
25	776	776	778	783															
30	734	735	738	744															
35	687	688	691	698															
40	634	635	639	646															
45	576	577	581	590															
50	514	515	519	528															
55	447	449	453	462															
60	378	379	384	393															
65	305	307	311	321															
70	231	235	238	249															
75	159	163	166	177															
80	93.2	96.6	98.5	109															
85	36.4	36.9	40.1	47.7															
90	1.15	0.11	0.13	0.49															
95	0.14	0.20	0.23	0.16															
100	0.26	0.33	0.36	0.30															
105	0.39	0.48	0.51	0.47															
110	0.53	0.63	0.67	0.62															
115	0.68	0.78	0.84	0.79															
120	0.82	0.92	0.99	0.95															
125	0.96	1.06	1.15	1.11															
130	1.08	1.19	1.29	1.25															
135	1.19	1.30	1.43	1.40															
140	1.30	1.39	1.56	1.54															
145	1.39	1.47	1.69	1.66															
150	1.49	1.58	1.80	1.77															
155	1.61	1.68	1.90	1.90															
160	1.72	1.79	2.01	2.04															
165	1.82	1.87	2.15	2.16															
170	1.91	1.96	2.26	2.26															
175	2.01	2.08	2.33	2.28															
180	2.25	2.23	2.30	2.28															

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: