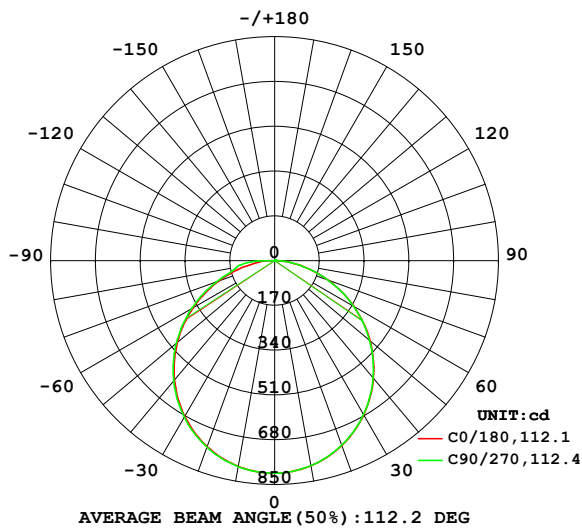


LUMINAIRE PHOTOMETRIC TEST REPORT

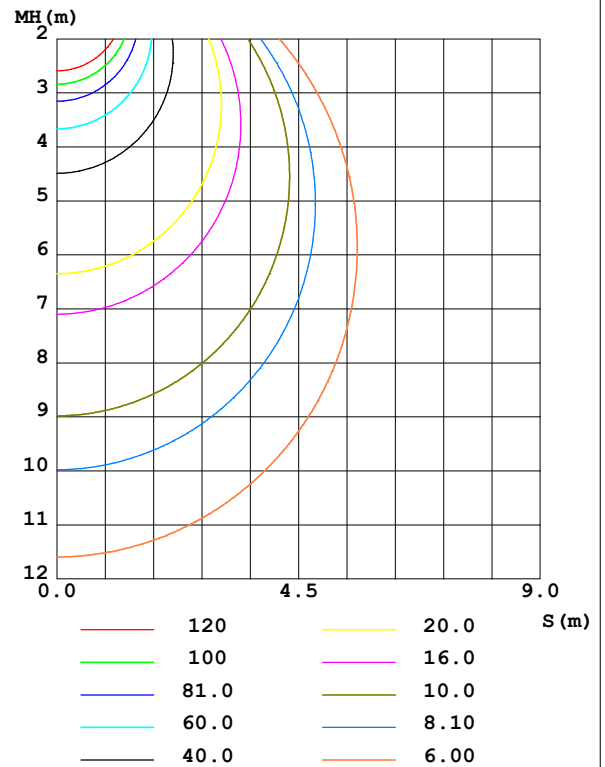
Test:U:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 58.11 lm/W
MODEL	EGRF2440LAJUDBK_3000K	I _{max} (cd)	807.0	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)	2330.8	η UP,DN(C0-180)	0.1,48.7	
NOMINAL FLUX(lm)	2330.85	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:

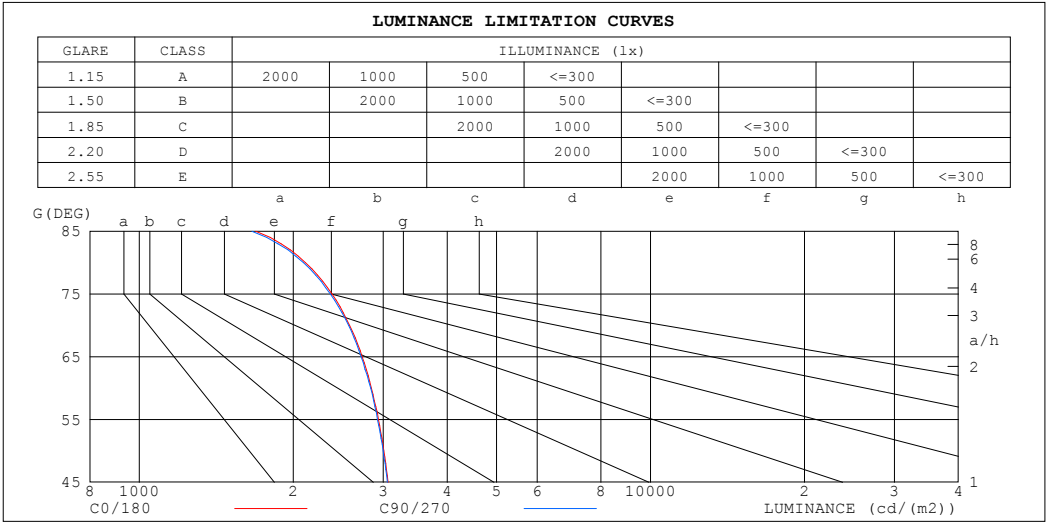
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	791.1	790.2	793.2	794.2					0- 10	76.32	76.32	3.27,3.27
20	746.8	745.3	751.0	753.3					10- 20	218.4	294.7	12.6,12.6
30	676.5	674.7	682.7	686.3					20- 30	330.7	625.4	26.8,26.8
40	583.6	581.6	591.4	596.1					30- 40	398.3	1024	43.9,43.9
50	472.8	470.6	481.9	487.4					40- 50	412.7	1436	61.6,61.6
60	347.8	346.1	357.4	363.8					50- 60	372.9	1809	77.6,77.6
70	215.8	214.4	224.8	234.7					60- 70	285.2	2095	89.9,89.9
80	89.72	88.78	98.33	147.2					70- 80	169.6	2264	97.1,97.1
90	2.139	0.1547	0.1217	0.4719					80- 90	61.33	2325	99.8,99.8
100	0.2431	0.3646	0.3265	0.2649					90-100	0.3628	2326	99.8,99.8
110	0.4917	0.5966	0.6139	0.5464					100-110	0.4527	2326	99.8,99.8
120	0.7405	0.8395	0.8902	0.8171					110-120	0.6871	2327	99.8,99.8
130	0.9838	1.071	1.139	1.071					120-130	0.8471	2328	99.9,99.9
140	1.133	1.221	1.355	1.298					130-140	0.8973	2329	99.9,99.9
150	1.299	1.375	1.554	1.474					140-150	0.8399	2330	99.9,99.9
160	1.481	1.546	1.731	1.640					150-160	0.6987	2330	100,100
170	1.636	1.673	1.859	1.750					160-170	0.4720	2331	100,100
180	1.835	1.795	1.857	1.806					170-180	0.1678	2331	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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1690	1660
80	2113	2093
75	2382	2365
70	2580	2566
65	2727	2715
60	2844	2834
55	2936	2924
50	3008	2997
45	3067	3057

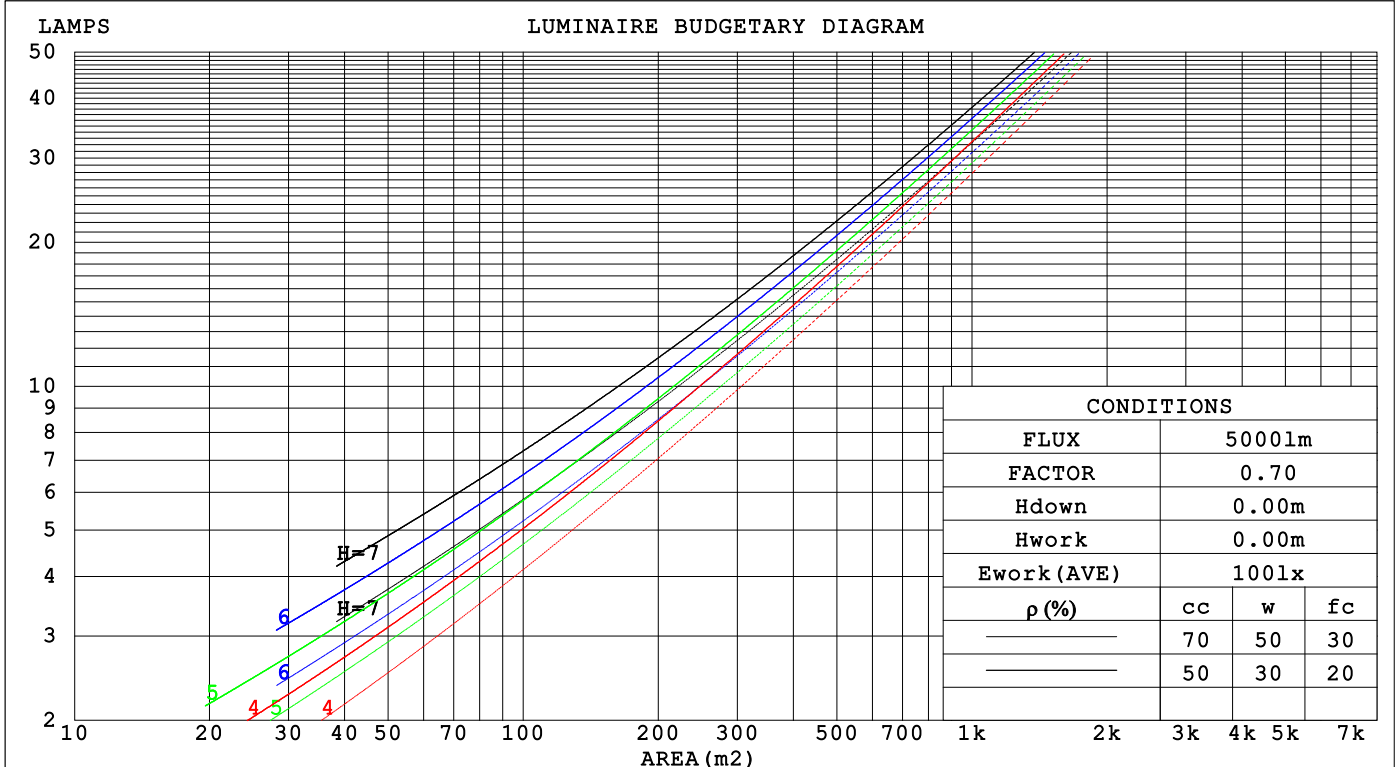
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.: 3000K	
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	.319	.181	.057	.312	.178	.056	.298	.171	.055	.286	.165	.053	.274	.159	.051															
2.0	.297	.163	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.146	.046															
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.247	.136	.042	.238	.132	.041															
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036															
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.204	.109	.033															
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030															
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027															
8.0	.186	.091	.026	.183	.090	.026	.177	.089	.025	.172	.087	.025	.167	.086	.025															
9.0	.175	.084	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023															
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.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	.103	.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	.036	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.138	.077	.035	.118	.067	.030	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.131	.071	.030	.113	.062	.027	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.108	.058	.024	.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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.: 3000K		
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	16.5	18.0	16.8	18.2	18.5	16.5	18.0	16.8	18.2	18.4
3H	18.0	19.4	18.3	19.7	19.9	18.0	19.4	18.3	19.6	19.9
4H	18.6	20.0	18.9	20.2	20.5	18.6	19.9	18.9	20.2	20.4
6H	19.0	20.3	19.4	20.6	20.9	19.0	20.3	19.3	20.5	20.8
8H	19.1	20.4	19.5	20.7	21.0	19.1	20.3	19.5	20.6	20.9
12H	19.2	20.4	19.6	20.7	21.0	19.2	20.4	19.5	20.7	21.0
4H 2H	17.1	18.5	17.4	18.7	19.0	17.1	18.4	17.4	18.7	19.0
3H	18.8	20.0	19.2	20.3	20.6	18.8	20.0	19.1	20.3	20.6
4H	19.5	20.6	19.9	20.9	21.3	19.5	20.6	19.9	20.9	21.2
6H	20.0	21.0	20.5	21.4	21.7	20.0	21.0	20.4	21.3	21.7
8H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
12H	20.3	21.2	20.8	21.6	22.0	20.3	21.1	20.7	21.5	21.9
8H 4H	19.8	20.7	20.2	21.0	21.4	19.7	20.6	20.2	21.0	21.4
6H	20.5	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0
8H	20.7	21.4	21.2	21.8	22.3	20.7	21.3	21.1	21.8	22.2
12H	20.9	21.5	21.4	21.9	22.4	20.9	21.4	21.3	21.9	22.4
12H 4H	19.8	20.6	20.2	21.0	21.4	19.8	20.6	20.2	21.0	21.4
6H	20.5	21.2	21.0	21.6	22.1	20.5	21.1	20.9	21.6	22.0
8H	20.8	21.4	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3
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, 2331 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.9$)
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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

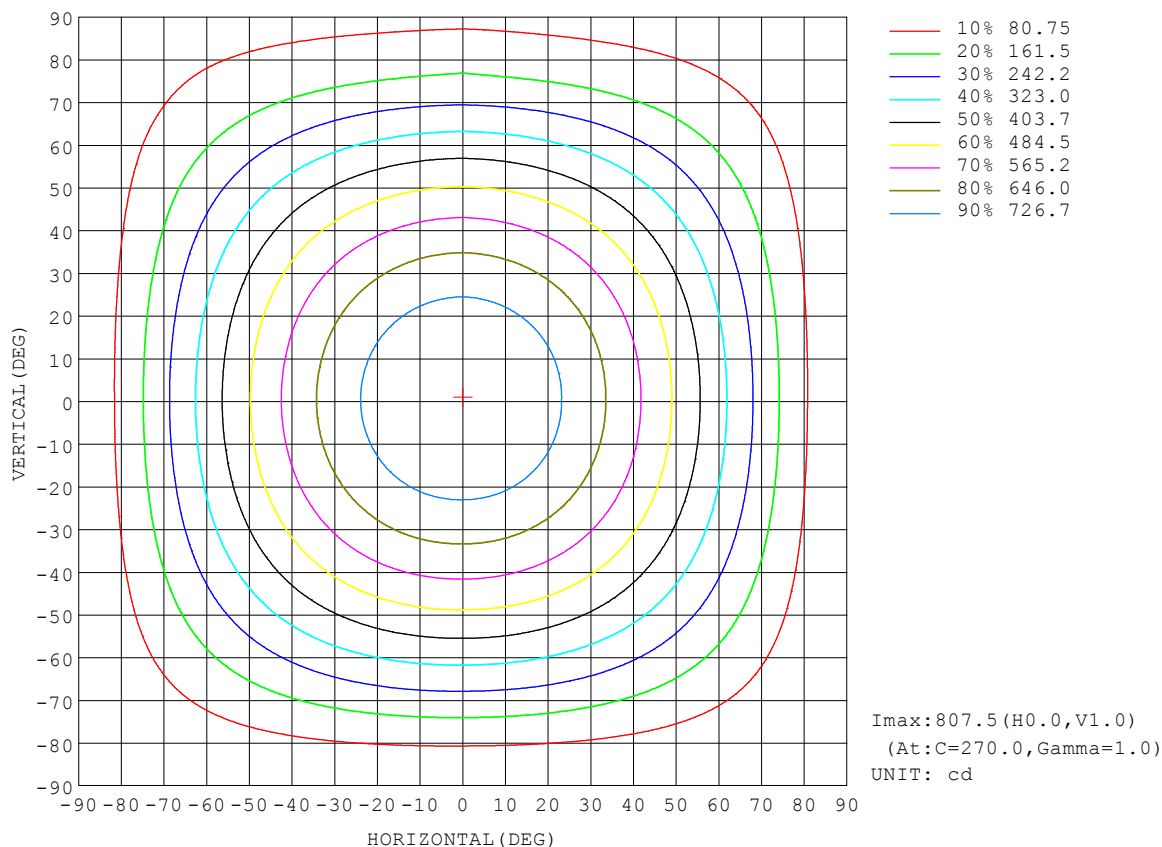
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	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	97	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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

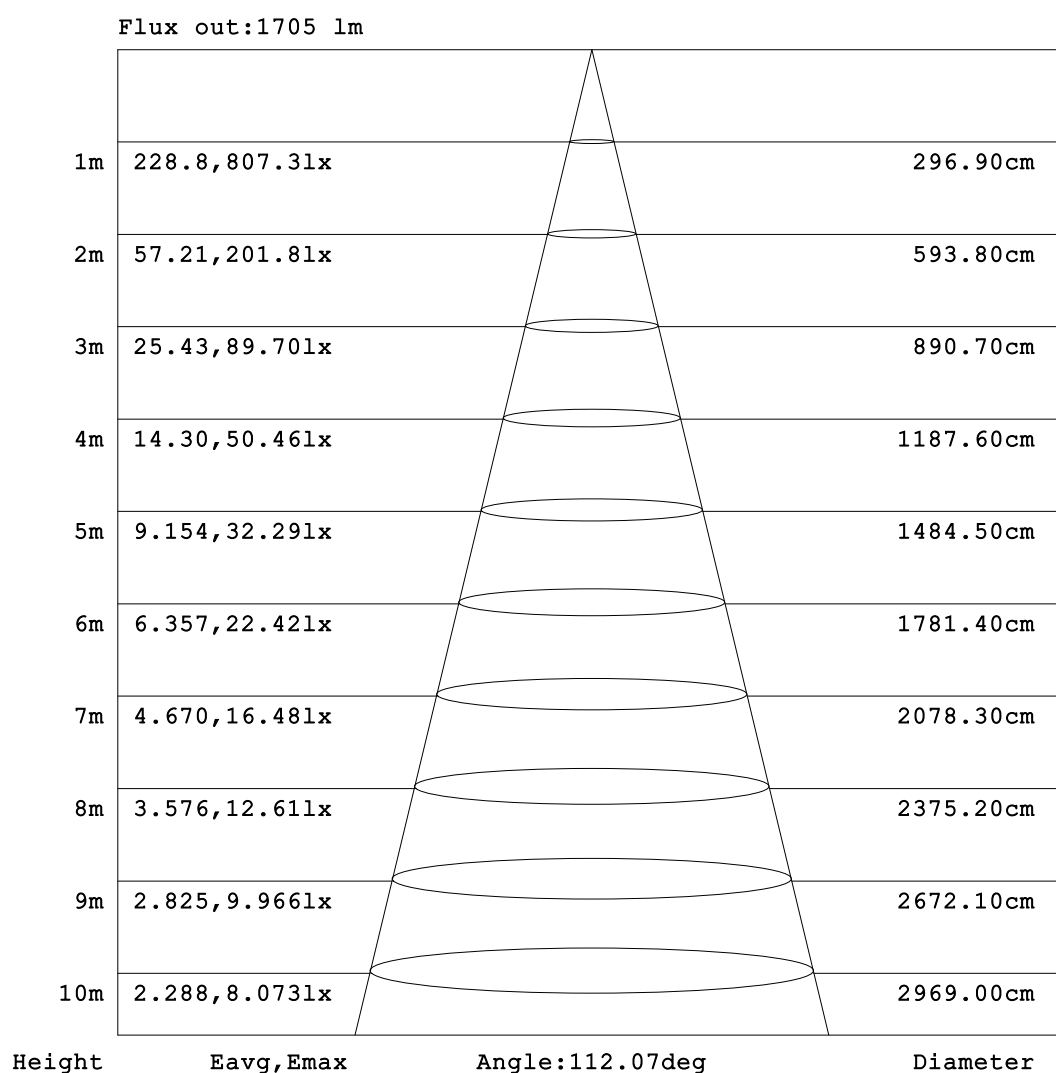


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-31

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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:



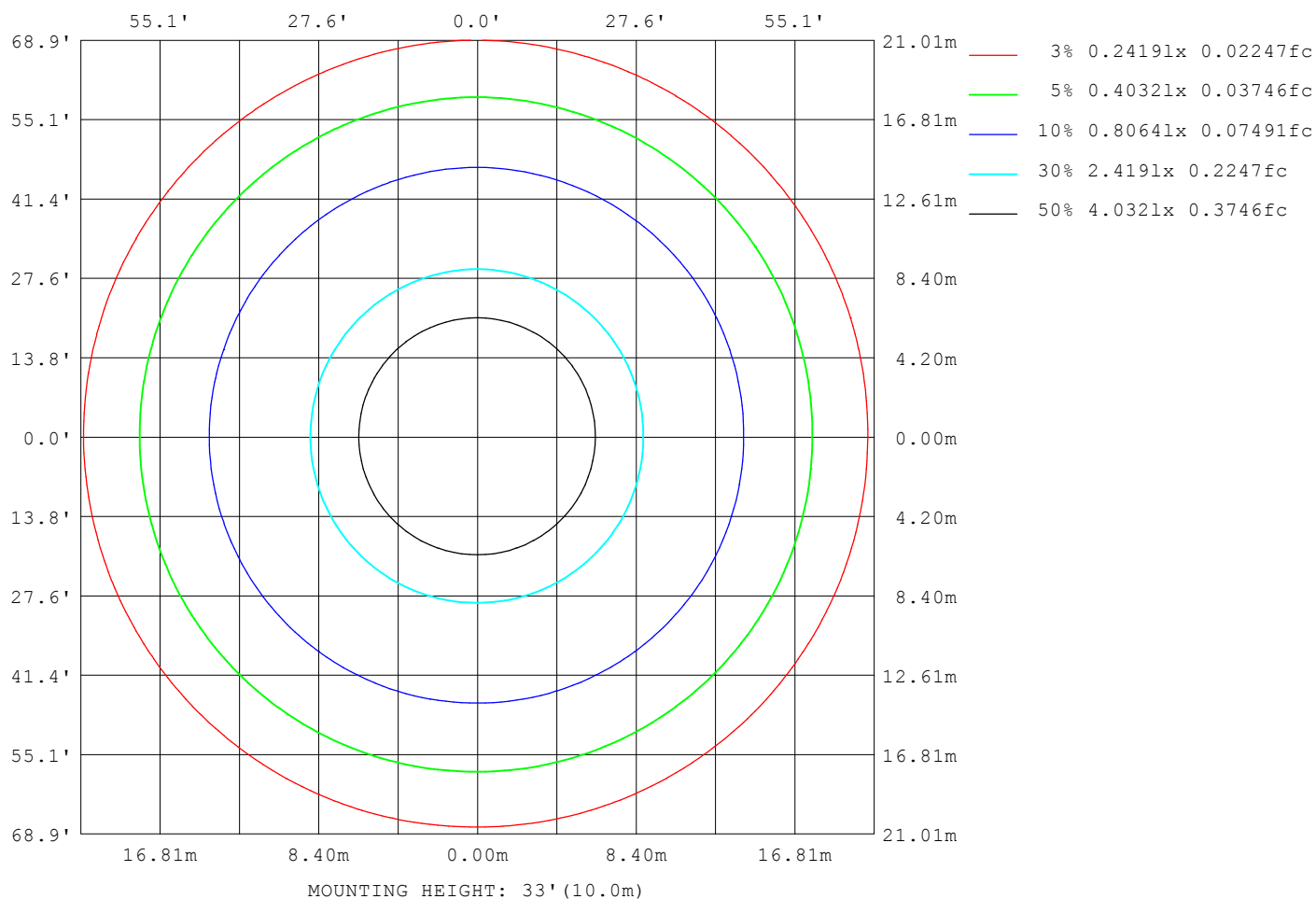
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

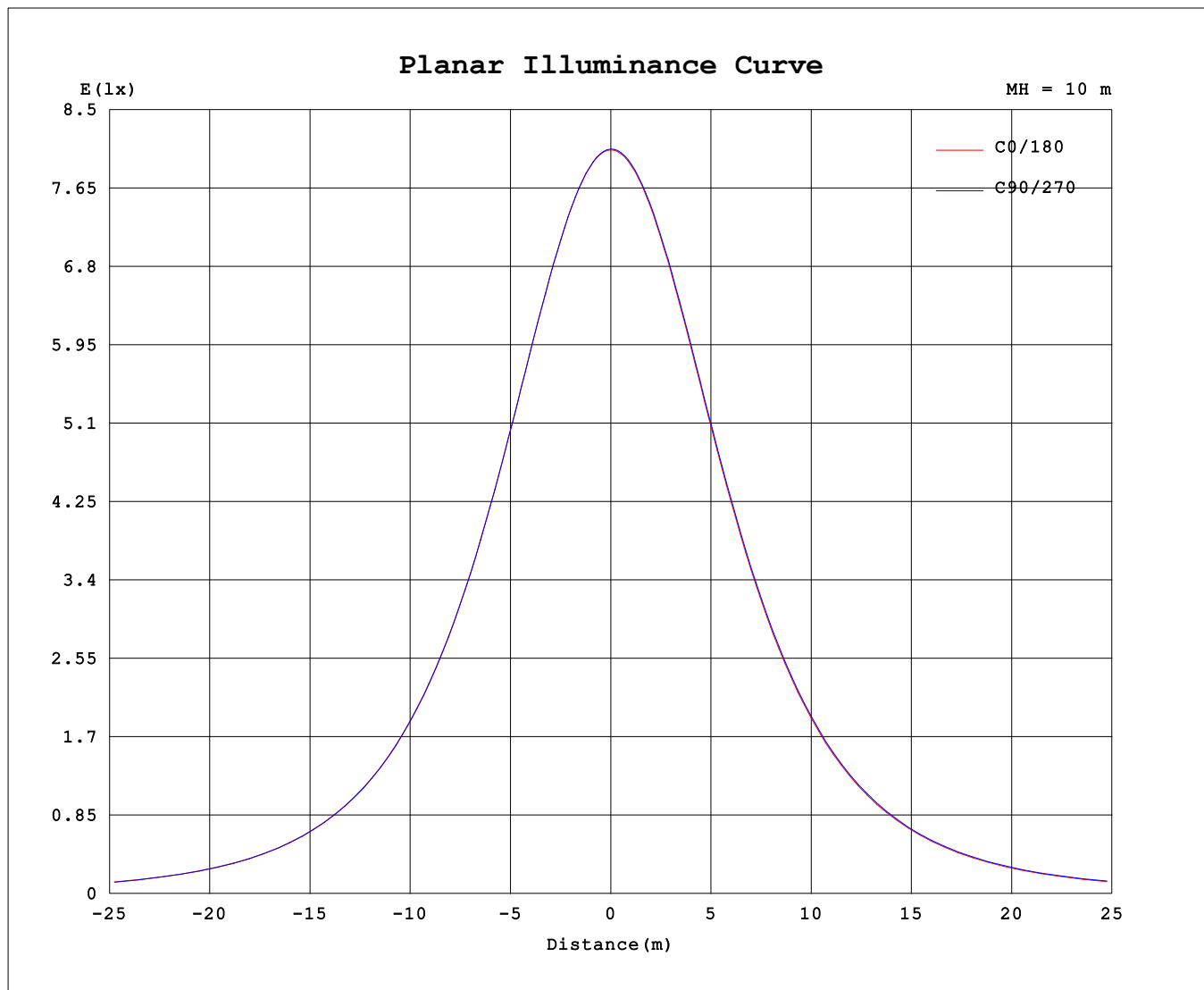
AvgL	cd/m2
L_0~180 (65) av	2775
L_0~180 (75) av	2452
L_0~180 (85) av	2147
L_90~270 (65) av	2804
L_90~270 (75) av	2569
L_90~270 (85) av	3372
L_45 (65) av	2796
L_45 (75) av	2529
L_45 (85) av	2941

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:119.76V I:0.3388A P:40.111W PF:0.9886 Freq:59.98Hz Lamp Flux:2330.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	807	807	807	807														
5	803	802	804	804														
10	791	790	793	794														
15	772	771	775	777														
20	747	745	751	753														
25	715	713	720	723														
30	676	675	683	686														
35	633	631	640	644														
40	584	582	591	596														
45	530	528	539	544														
50	473	471	482	487														
55	412	410	421	427														
60	348	346	357	364														
65	282	280	291	299														
70	216	214	225	235														
75	151	150	159	175														
80	89.7	88.8	98.3	147														
85	36.0	35.3	55.4	108														
90	2.14	0.15	0.12	0.47														
95	0.14	0.25	0.21	0.16														
100	0.24	0.36	0.33	0.26														
105	0.37	0.48	0.47	0.40														
110	0.49	0.60	0.61	0.55														
115	0.62	0.72	0.75	0.68														
120	0.74	0.84	0.89	0.82														
125	0.87	0.96	1.02	0.94														
130	0.98	1.07	1.14	1.07														
135	1.06	1.14	1.25	1.19														
140	1.13	1.22	1.35	1.30														
145	1.22	1.31	1.46	1.39														
150	1.30	1.38	1.55	1.47														
155	1.39	1.46	1.65	1.56														
160	1.48	1.55	1.73	1.64														
165	1.57	1.62	1.82	1.71														
170	1.64	1.67	1.86	1.75														
175	1.70	1.73	1.87	1.79														
180	1.84	1.79	1.86	1.81														

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%
Test Distance:8.800m [K=1.0000]
Remarks: