

LUMINAIRE PHOTOMETRIC TEST REPORT

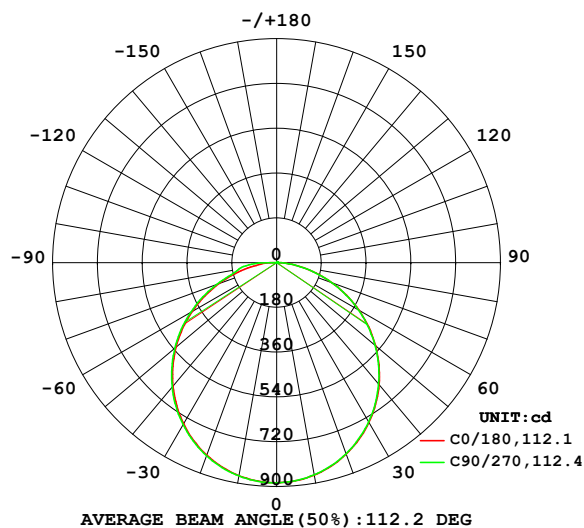
Test:U:119.76V I:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz

Lamp Flux:2554.2x1 lm

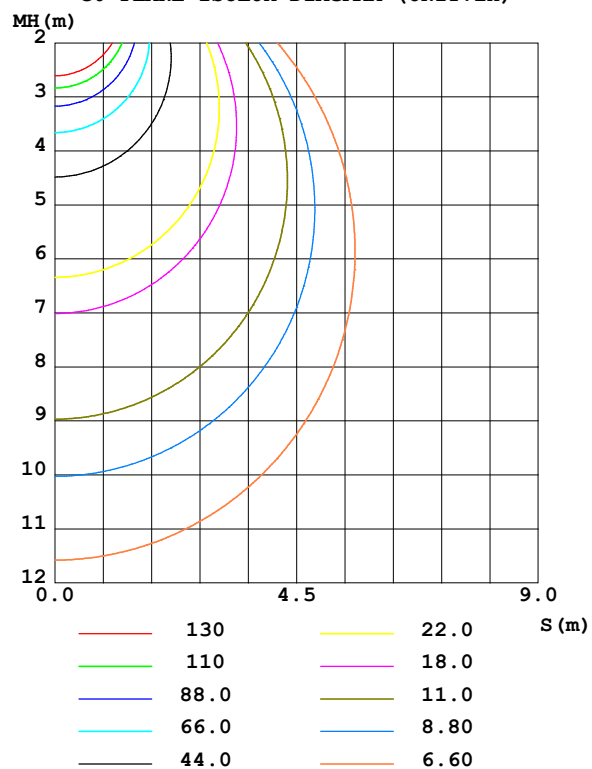
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 66.04 lm/W
MODEL	EGRF2440LAJUDBK_4000K	I _{max} (cd)	884.7	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)	2554.2	η UP,DN(C0-180)	0.1,48.8	
NOMINAL FLUX(lm)	2554.2	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:

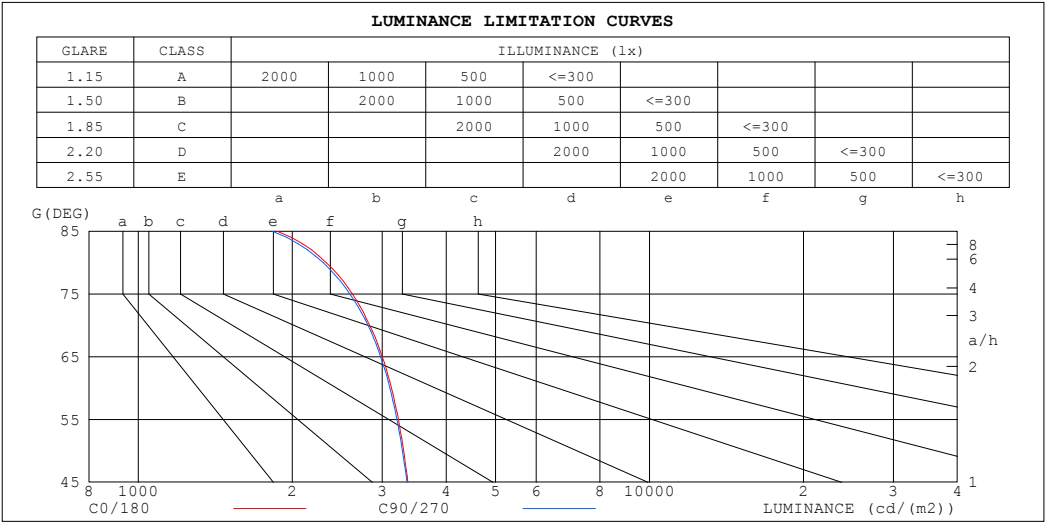
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	867.4	866.2	869.5	870.8					0- 10	83.67	83.67	3.28,3.28
20	818.8	816.9	823.1	825.9					10- 20	239.5	323.1	12.7,12.7
30	741.9	739.7	748.1	752.4					20- 30	362.5	685.6	26.8,26.8
40	640.5	637.8	648.5	653.9					30- 40	436.7	1122	43.9,43.9
50	518.9	516.0	528.0	534.3					40- 50	452.6	1575	61.7,61.7
60	382.2	379.4	391.6	399.0					50- 60	409.0	1984	77.7,77.7
70	237.2	235.2	246.4	257.0					60- 70	312.8	2297	89.9,89.9
80	98.93	97.58	107.3	155.2					70- 80	185.4	2482	97.2,97.2
90	2.459	0.1714	0.1327	0.5665					80- 90	66.02	2548	99.8,99.8
100	0.2816	0.3980	0.3814	0.3092					90-100	0.4104	2549	99.8,99.8
110	0.5522	0.6686	0.6800	0.6184					100-110	0.5087	2549	99.8,99.8
120	0.8341	0.9174	0.9783	0.9223					110-120	0.7658	2550	99.8,99.8
130	1.094	1.182	1.260	1.193					120-130	0.9410	2551	99.9,99.9
140	1.260	1.354	1.503	1.442					130-140	0.9940	2552	99.9,99.9
150	1.436	1.514	1.724	1.630					140-150	0.9300	2553	99.9,99.9
160	1.635	1.702	1.901	1.801					150-160	0.7702	2553	100,100
170	1.779	1.829	2.044	1.950					160-170	0.5190	2554	100,100
180	2.039	1.983	2.061	1.994					170-180	0.1846	2554	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:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz Lamp Flux:2554.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1869	1828
80	2331	2299
75	2623	2594
70	2837	2814
65	3000	2976
60	3127	3105
55	3226	3206
50	3303	3285
45	3367	3351

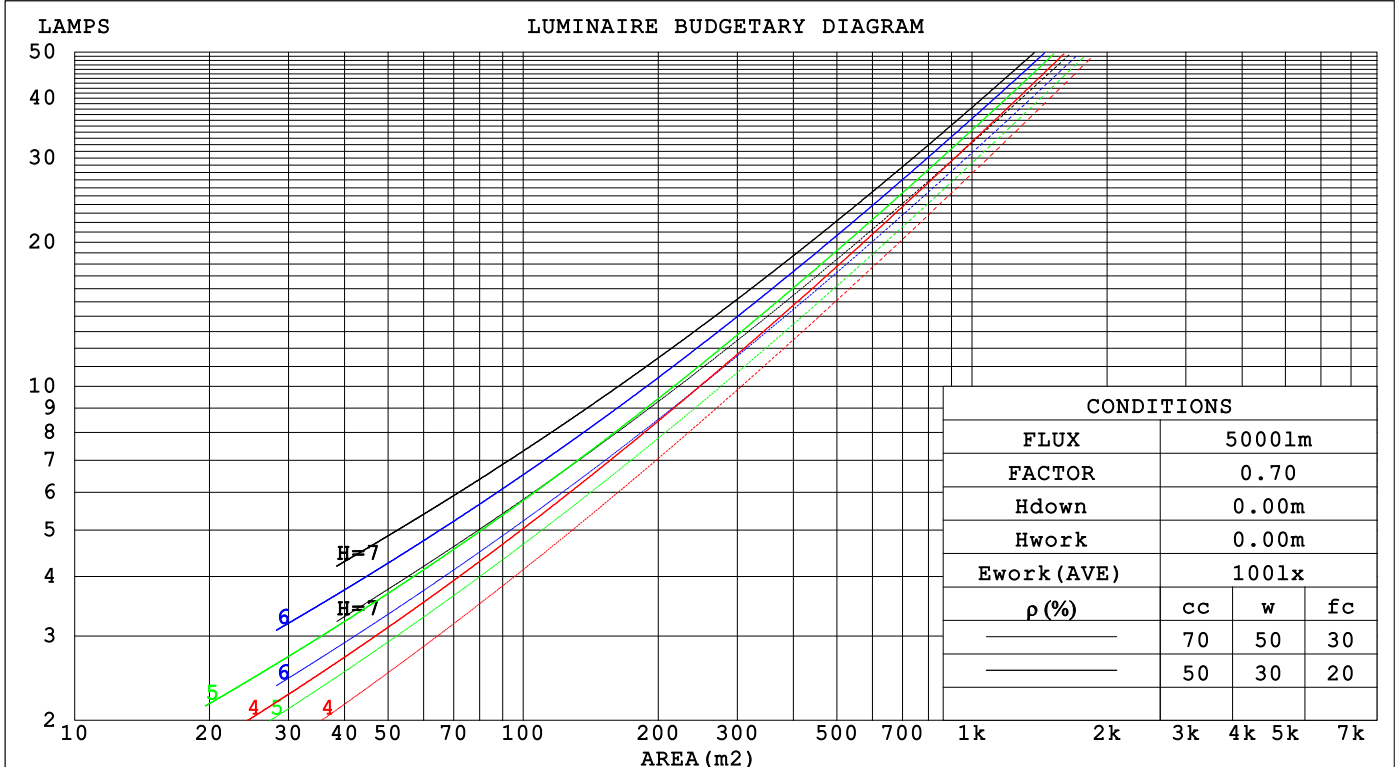
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.76V I:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz Lamp Flux:2554.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
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%
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WEC AND CCEC

Test:U:119.76V I:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz Lamp Flux:2554.2x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.: 4000K	
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	.318	.181	.057	.311	.177	.056	.298	.171	.055	.285	.165	.053	.274	.159	.051															
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046															
3.0	.273	.145	.044	.267	.143	.043	.257	.139	.042	.247	.135	.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	.227	.117	.034	.219	.114	.034	.211	.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	.183	.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	.023	.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	.136	.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	.044	.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:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz Lamp Flux:2554.2x1 lm											
NAME:			TYPE:			WEIGHT:					
SPEC.:			DIM.:			SERIAL No.: 4000K					
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		16.8	18.4	17.1	18.6	18.8	16.8	18.3	17.1	18.6	18.8
3H		18.3	19.8	18.6	20.0	20.2	18.3	19.7	18.6	20.0	20.2
4H		18.9	20.3	19.3	20.5	20.8	18.9	20.3	19.2	20.5	20.8
6H		19.4	20.6	19.7	20.9	21.2	19.3	20.6	19.7	20.9	21.2
8H		19.5	20.7	19.8	21.0	21.3	19.4	20.7	19.8	21.0	21.3
12H		19.6	20.7	19.9	21.0	21.3	19.5	20.7	19.9	21.0	21.3
4H 2H		17.4	18.8	17.8	19.0	19.3	17.4	18.8	17.7	19.0	19.3
3H		19.1	20.3	19.5	20.6	20.9	19.1	20.3	19.5	20.6	20.9
4H		19.8	20.9	20.2	21.3	21.6	19.8	20.9	20.2	21.2	21.6
6H		20.4	21.4	20.8	21.7	22.1	20.4	21.3	20.8	21.7	22.0
8H		20.6	21.5	21.0	21.8	22.2	20.5	21.4	20.9	21.8	22.2
12H		20.7	21.5	21.1	21.9	22.3	20.6	21.5	21.1	21.8	22.3
8H 4H		20.1	21.0	20.5	21.4	21.8	20.1	21.0	20.5	21.3	21.7
6H		20.8	21.5	21.2	22.0	22.4	20.8	21.5	21.2	21.9	22.4
8H		21.1	21.7	21.5	22.1	22.6	21.0	21.7	21.5	22.1	22.6
12H		21.2	21.8	21.7	22.3	22.7	21.2	21.8	21.7	22.2	22.7
12H 4H		20.1	20.9	20.5	21.3	21.7	20.1	20.9	20.5	21.3	21.7
6H		20.8	21.5	21.3	21.9	22.4	20.8	21.5	21.3	21.9	22.4
8H		21.1	21.7	21.6	22.2	22.7	21.1	21.7	21.6	22.1	22.6
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, 2554 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.3$)
Area: 0.2444 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
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Operators:
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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:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz Lamp Flux:2554.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:

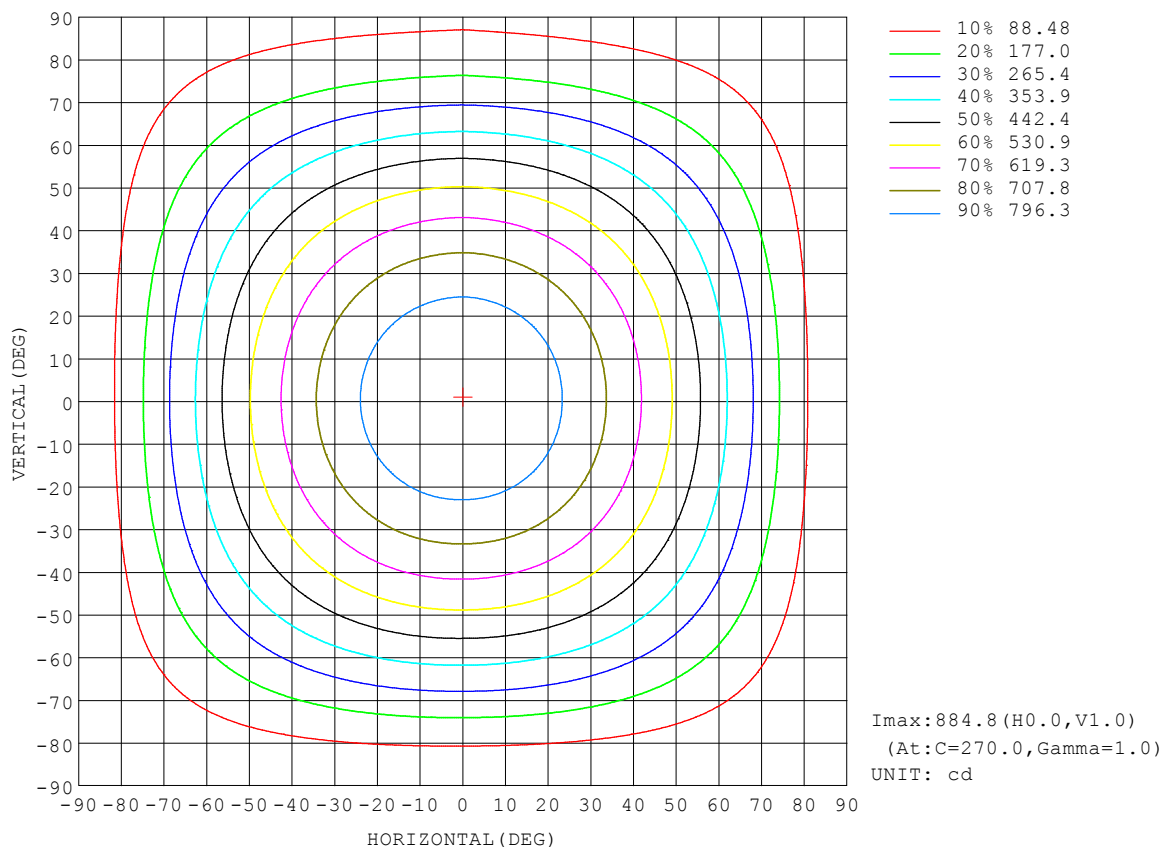
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	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	85	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	98	101	98	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
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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:0.3268A P:38.677W PF:0.9883 Freq:59.98Hz Lamp Flux:2554.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:

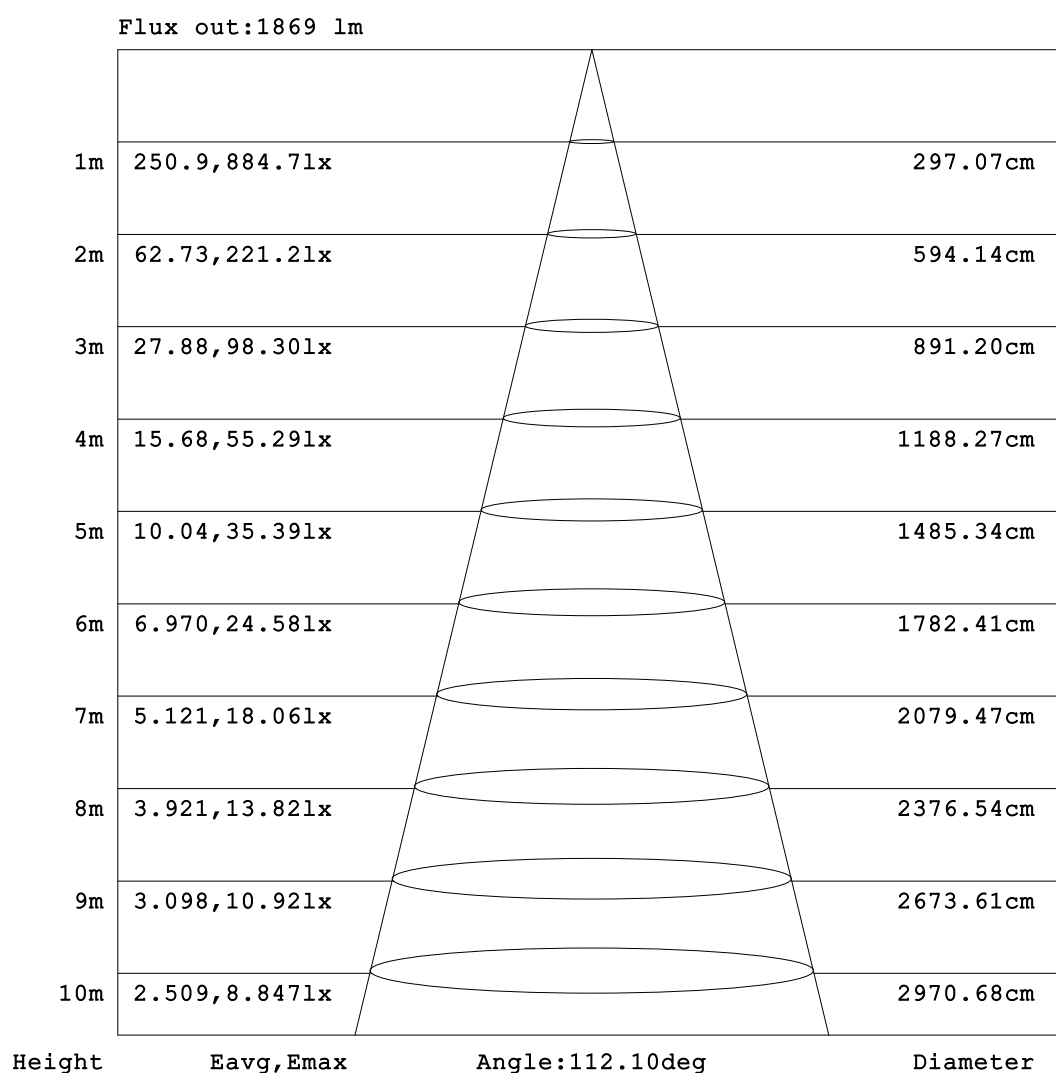


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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
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Test Distance:8.800m [K=1.0000]
Remarks:

AAI Figure

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NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:



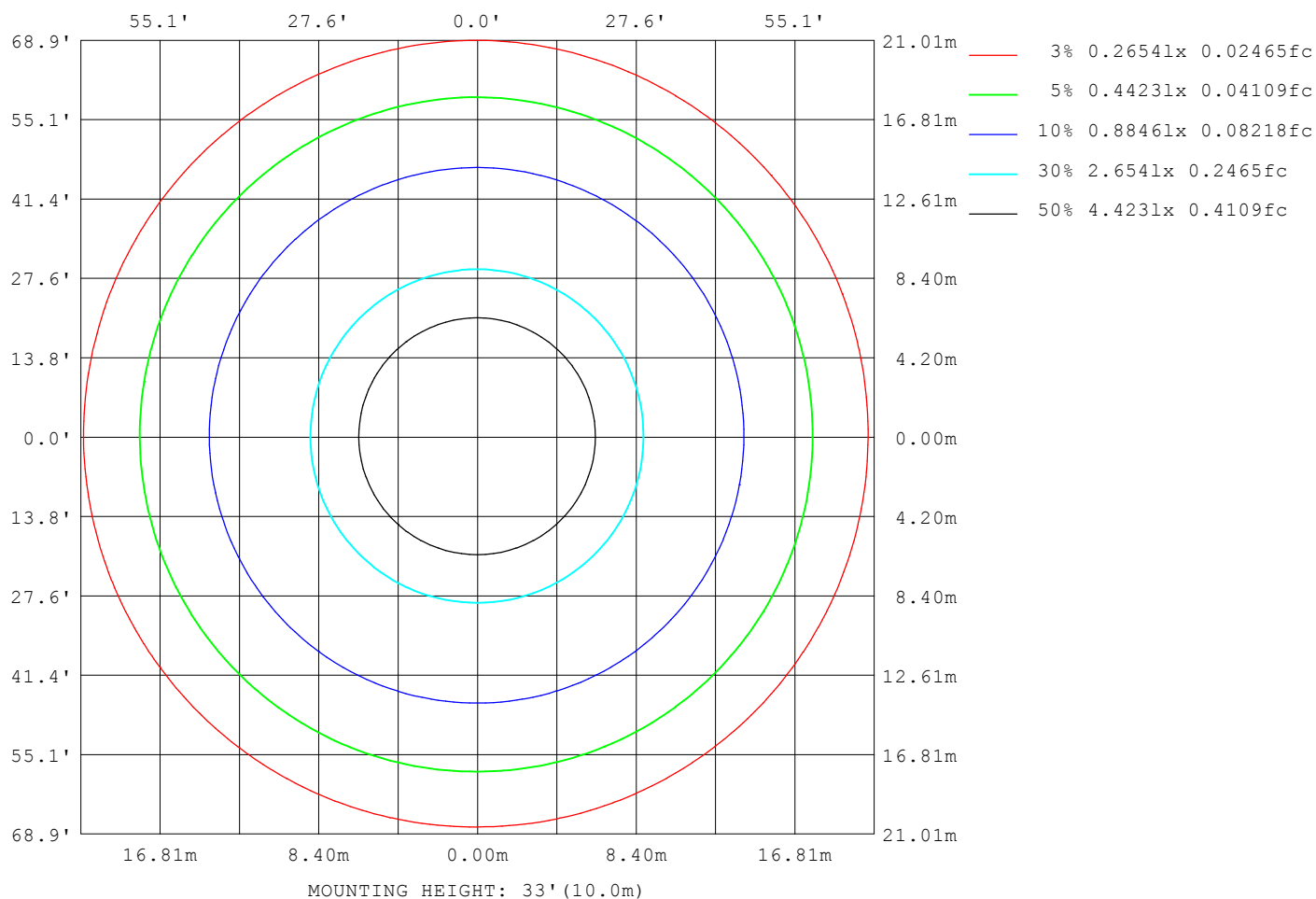
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.:	DIM.:	SERIAL No.: 4000K
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 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
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Test Distance:8.800m [K=1.0000]
Remarks:

LED Avg.L Report

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NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:

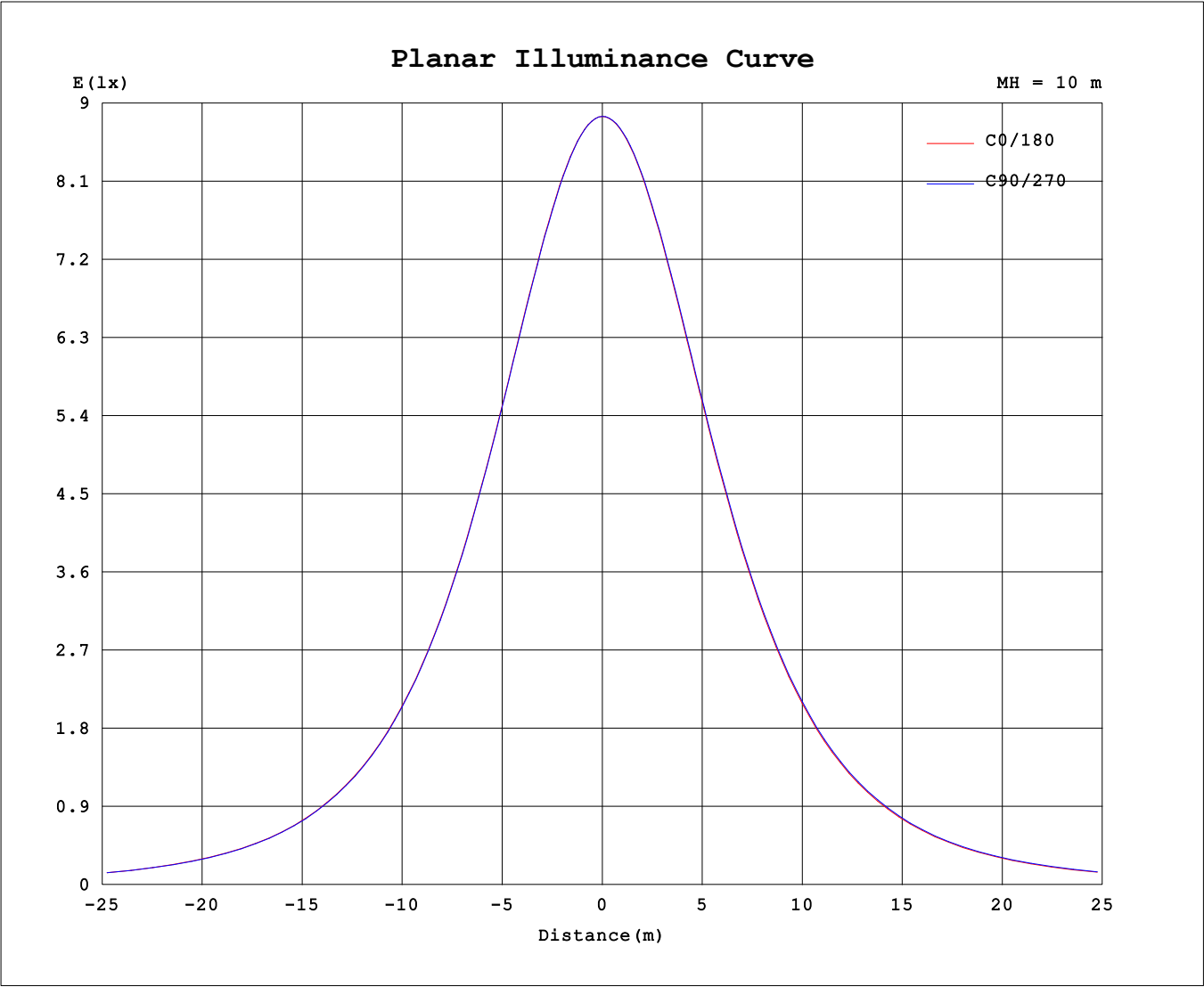
AvgL	cd/m2
L_0~180 (65) av	3047
L_0~180 (75) av	2693
L_0~180 (85) av	2314
L_90~270 (65) av	3074
L_90~270 (75) av	2796
L_90~270 (85) av	3572
L_45 (65) av	3067
L_45 (75) av	2761
L_45 (85) av	3128

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	885	885	885	885														
5	880	880	881	882														
10	867	866	870	871														
15	847	845	850	852														
20	819	817	823	826														
25	784	782	789	792														
30	742	740	748	752														
35	694	691	701	706														
40	640	638	648	654														
45	582	579	591	596														
50	519	516	528	534														
55	452	449	461	468														
60	382	379	392	399														
65	310	307	320	328														
70	237	235	246	257														
75	166	164	175	190														
80	98.9	97.6	107	155														
85	39.8	38.9	58.8	113														
90	2.46	0.17	0.13	0.57														
95	0.17	0.28	0.24	0.17														
100	0.28	0.40	0.38	0.31														
105	0.41	0.53	0.51	0.45														
110	0.55	0.67	0.68	0.62														
115	0.69	0.79	0.83	0.77														
120	0.83	0.92	0.98	0.92														
125	0.97	1.06	1.13	1.07														
130	1.09	1.18	1.26	1.19														
135	1.17	1.27	1.39	1.33														
140	1.26	1.35	1.50	1.44														
145	1.34	1.43	1.62	1.54														
150	1.44	1.51	1.72	1.63														
155	1.53	1.60	1.82	1.72														
160	1.64	1.70	1.90	1.80														
165	1.72	1.78	1.99	1.88														
170	1.78	1.83	2.04	1.95														
175	1.86	1.90	2.06	1.98														
180	2.04	1.98	2.06	1.99														

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: