

LUMINAIRE PHOTOMETRIC TEST REPORT

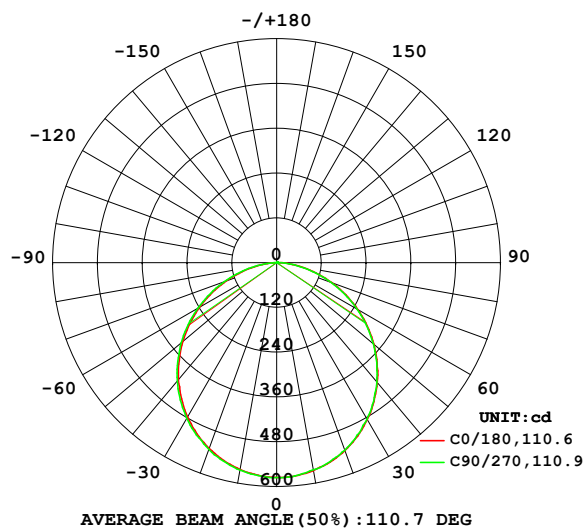
Test:U:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz

Lamp Flux:1616.24x1 lm

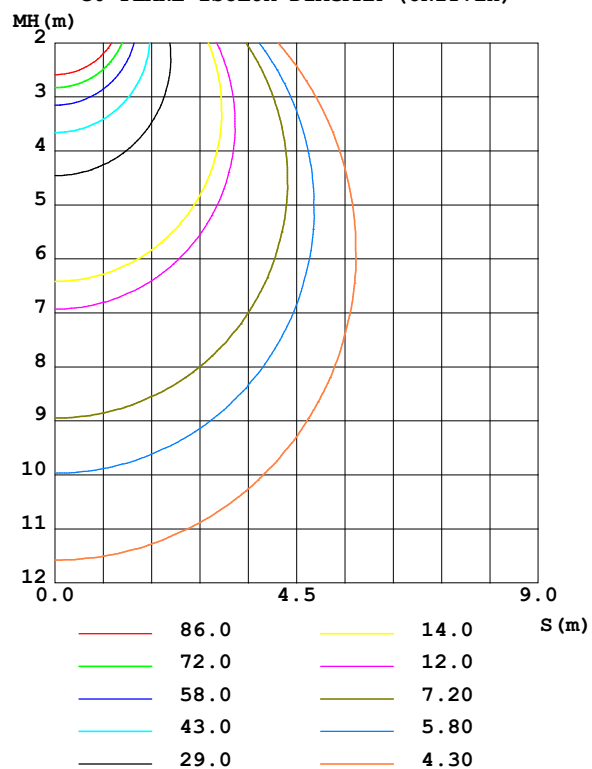
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.312	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.75 lm/W
MODEL	EONF14LAJD1BK_4000K	I _{max} (cd)	576.2	S/MH(C0/180)	1.24	
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1616.2	η UP,DN(C0-180)	0.1,50.6	
NOMINAL FLUX(lm)	1616.24	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.1	
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:2025-07-07

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:

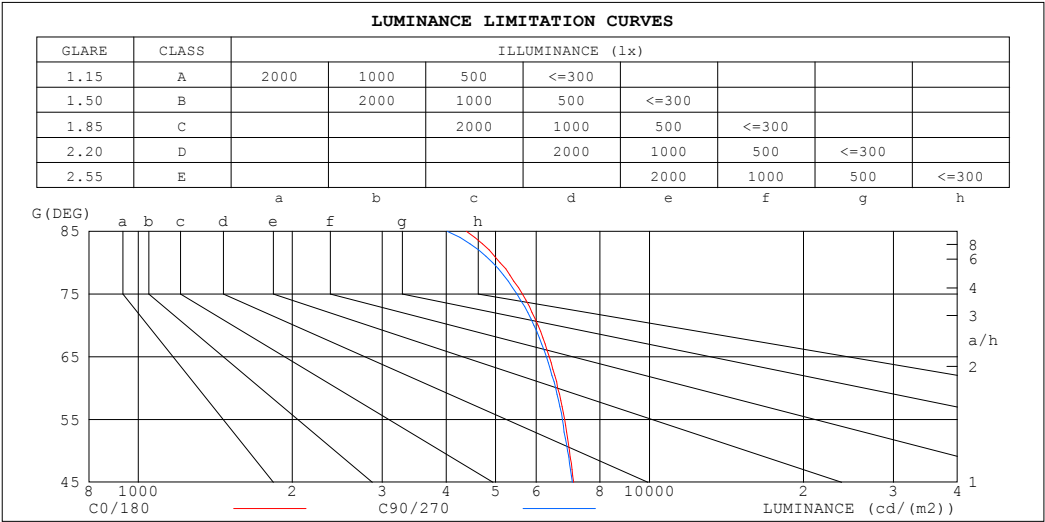
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	565.9	563.8	563.0	564.7					0- 10	54.42	54.42	3.37,3.37
20	535.9	534.6	529.7	532.2					10- 20	155.5	210.0	13,13
30	485.6	484.2	477.4	481.9					20- 30	234.9	444.8	27.5,27.5
40	419.9	417.8	409.5	414.4					30- 40	281.8	726.6	45,45
50	340.5	338.0	328.4	333.9					40- 50	290.3	1017	62.9,62.9
60	251.2	249.1	237.7	243.4					50- 60	260.2	1277	79,79
70	157.2	154.5	142.5	149.4					60- 70	196.1	1473	91.1,91.1
80	67.21	65.11	54.92	60.22					70- 80	111.1	1584	98,98
90	0.1852	0.0057	0.0333	0.0337					80- 90	28.18	1612	99.8,99.8
100	0.0881	0.1550	0.1990	0.1436					90-100	0.0795	1613	99.8,99.8
110	0.2703	0.3540	0.4143	0.3537					100-110	0.2596	1613	99.8,99.8
120	0.4692	0.5587	0.6406	0.5749					110-120	0.4524	1613	99.8,99.8
130	0.6677	0.7521	0.8558	0.7905					120-130	0.5946	1614	99.9,99.9
140	0.8280	0.9124	1.049	0.9896					130-140	0.6615	1615	99.9,99.9
150	0.9936	1.062	1.209	1.161					140-150	0.6413	1615	99.9,99.9
160	1.159	1.211	1.375	1.305					150-160	0.5461	1616	100,100
170	1.303	1.344	1.477	1.432					160-170	0.3753	1616	100,100
180	1.474	1.471	1.496	1.476					170-180	0.1356	1616	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:2025-07-07

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:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz Lamp Flux:1616.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.312	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4381	4021
80	5096	4930
75	5640	5505
70	6052	5941
65	6369	6281
60	6614	6550
55	6819	6751
50	6975	6914
45	7103	7058

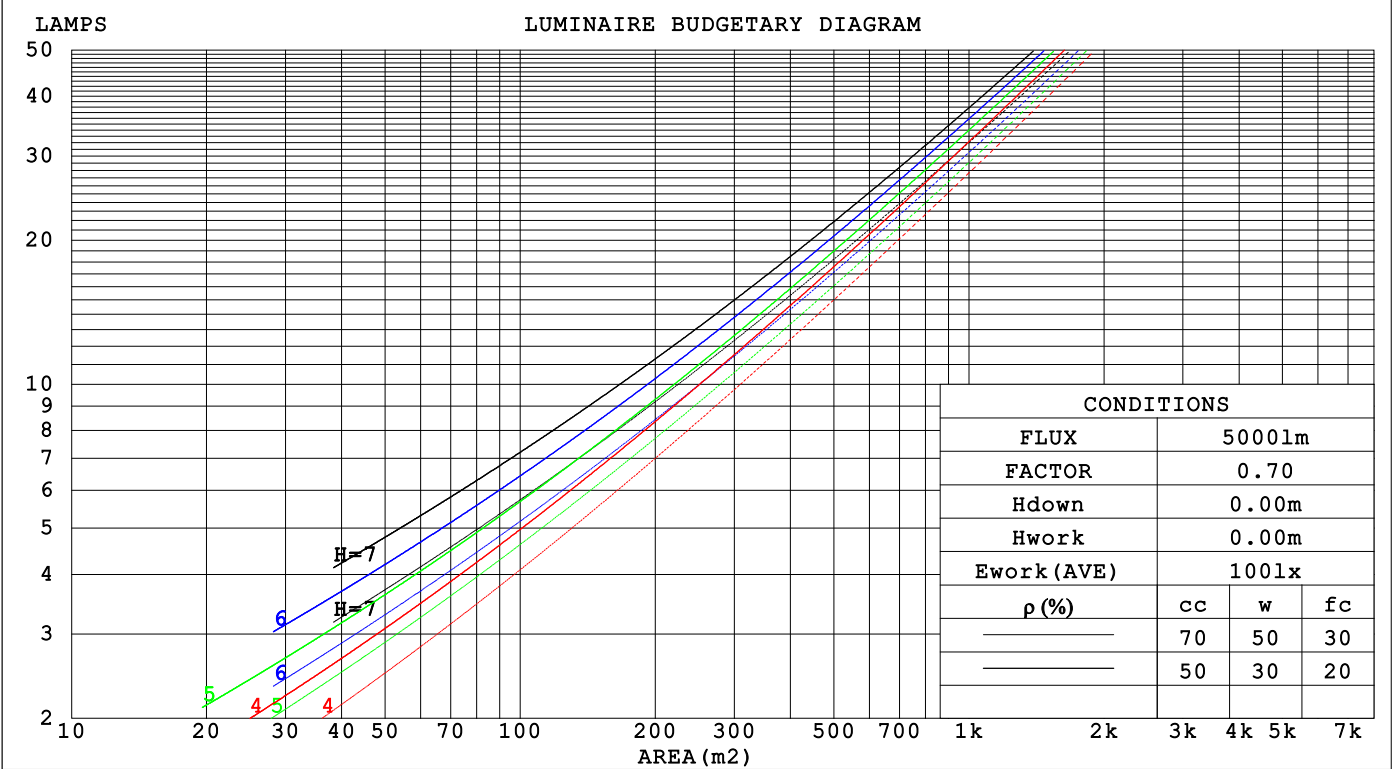
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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz		
Lamp Flux:1616.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.312	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															



C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2025-07-07

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:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz Lamp Flux:1616.24x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.: 4000K	
MFR.:		SUR.: 0.312		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	.307	.175	.055	.300	.171	.054	.287	.164	.052	.274	.158	.051	.263	.152	.049															
2.0	.290	.159	.049	.283	.156	.048	.272	.151	.047	.261	.146	.046	.251	.142	.045															
3.0	.268	.143	.043	.263	.141	.042	.252	.137	.042	.243	.133	.041	.234	.129	.040															
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036															
5.0	.229	.117	.034	.225	.116	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032															
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.188	.099	.029															
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.176	.092	.027															
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.086	.025	.165	.085	.025															
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.161	.080	.023	.156	.079	.023															
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.147	.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	.182	.158	.136	.156	.136	.117	.106	.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	.142	.100	.066	.098	.070	.046	.056	.041	.027	.018	.013	.009	
4.0	.158	.103	.060	.136	.089	.052	.093	.062	.037	.054	.036	.022	.017	.012	.007	
5.0	.151	.092	.049	.130	.080	.043	.089	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.041	.124	.073	.036	.085	.051	.025	.049	.030	.015	.016	.010	.005	
7.0	.137	.077	.035	.118	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.112	.062	.027	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.124	.066	.027	.107	.058	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.102	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-07

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:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz Lamp Flux:1616.24x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.: 4000K			
MFR.:					SUR.: 0.312			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		17.9	19.4	18.2	19.6	19.8	17.9	19.4	18.1	19.6	19.8
3H		19.4	20.8	19.7	21.1	21.3	19.4	20.8	19.7	21.0	21.3
4H		20.0	21.4	20.4	21.6	21.9	20.0	21.3	20.3	21.6	21.8
6H		20.5	21.7	20.8	22.0	22.3	20.4	21.6	20.7	21.9	22.2
8H		20.6	21.8	21.0	22.1	22.4	20.5	21.7	20.9	22.0	22.3
12H		20.7	21.9	21.1	22.2	22.5	20.6	21.8	21.0	22.1	22.4
4H 2H		18.5	19.8	18.8	20.1	20.4	18.5	19.8	18.8	20.1	20.3
3H		20.2	21.4	20.6	21.7	22.0	20.2	21.3	20.5	21.6	21.9
4H		21.0	22.0	21.3	22.3	22.7	20.9	22.0	21.3	22.3	22.6
6H		21.5	22.5	21.9	22.8	23.2	21.4	22.4	21.8	22.7	23.1
8H		21.7	22.6	22.1	23.0	23.4	21.6	22.5	22.0	22.9	23.3
12H		21.9	22.7	22.3	23.0	23.5	21.7	22.6	22.2	22.9	23.4
8H 4H		21.2	22.1	21.6	22.5	22.9	21.2	22.0	21.6	22.4	22.8
6H		21.9	22.7	22.4	23.1	23.5	21.9	22.6	22.3	23.0	23.4
8H		22.2	22.9	22.7	23.3	23.8	22.1	22.8	22.6	23.2	23.7
12H		22.4	23.0	22.9	23.4	23.9	22.3	22.9	22.8	23.3	23.8
12H 4H		21.2	22.0	21.7	22.4	22.8	21.2	22.0	21.6	22.4	22.8
6H		22.0	22.6	22.5	23.1	23.5	21.9	22.6	22.4	23.0	23.5
8H		22.3	22.9	22.8	23.3	23.8	22.2	22.8	22.7	23.2	23.7
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, 1616 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.7$)
Area: 0.076 m²

C Range: 0 - 360DEG
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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:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz Lamp Flux:1616.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.312	Shielding Angle:

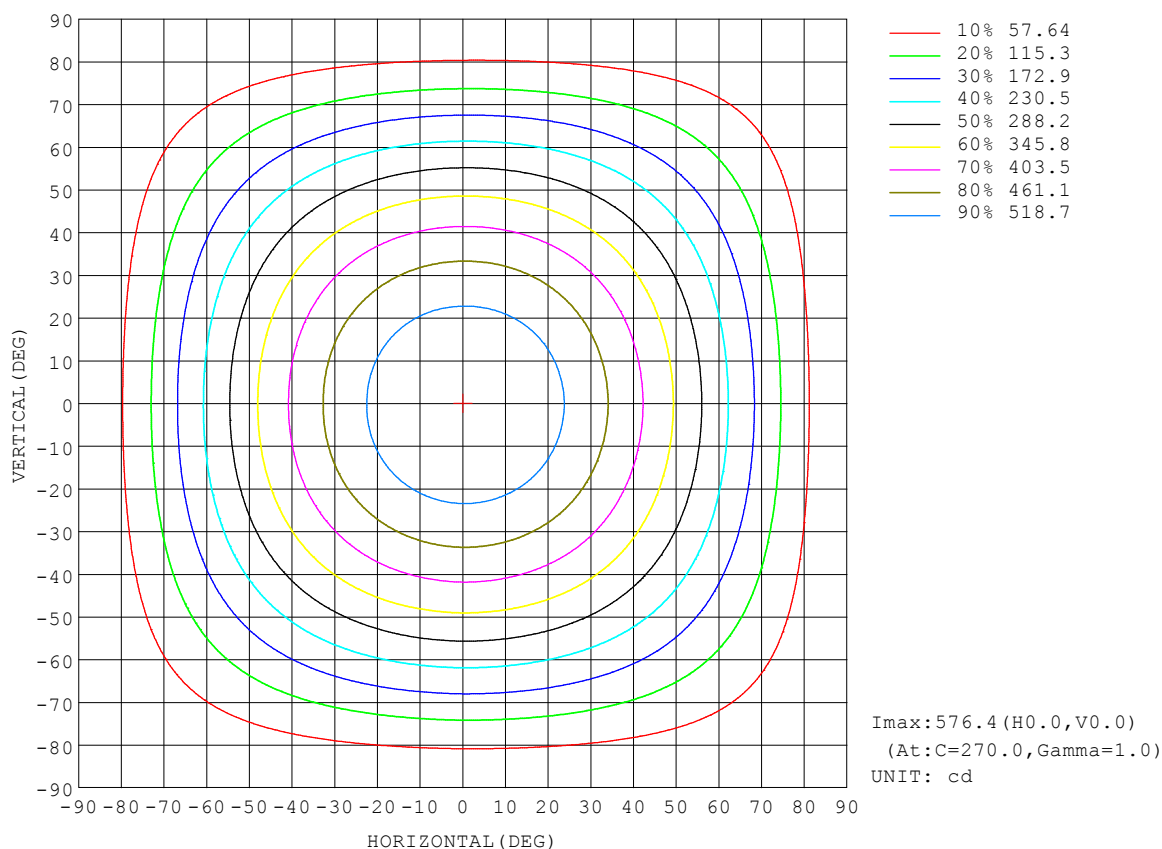
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	77	71	84	76	70	62
2.00	95	87	80	93	85	79	90	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	87	78
4.00	106	101	96	104	99	95	100	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
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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:119.96V I:0.2372A P:26.607W PF:0.9349 Freq:59.98Hz Lamp Flux:1616.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.312	Shielding Angle:

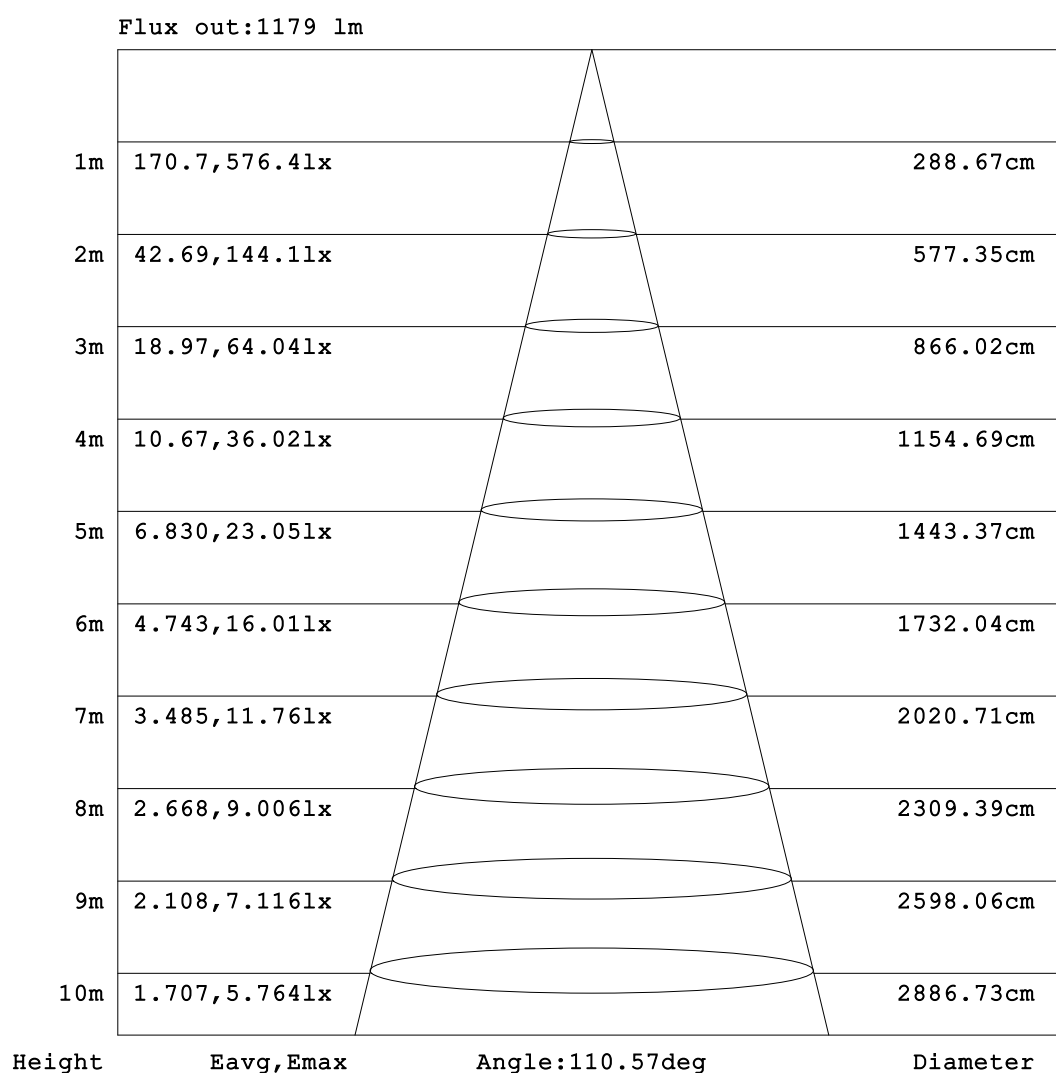


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Remarks:

AAI Figure

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SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.312	Shielding Angle:



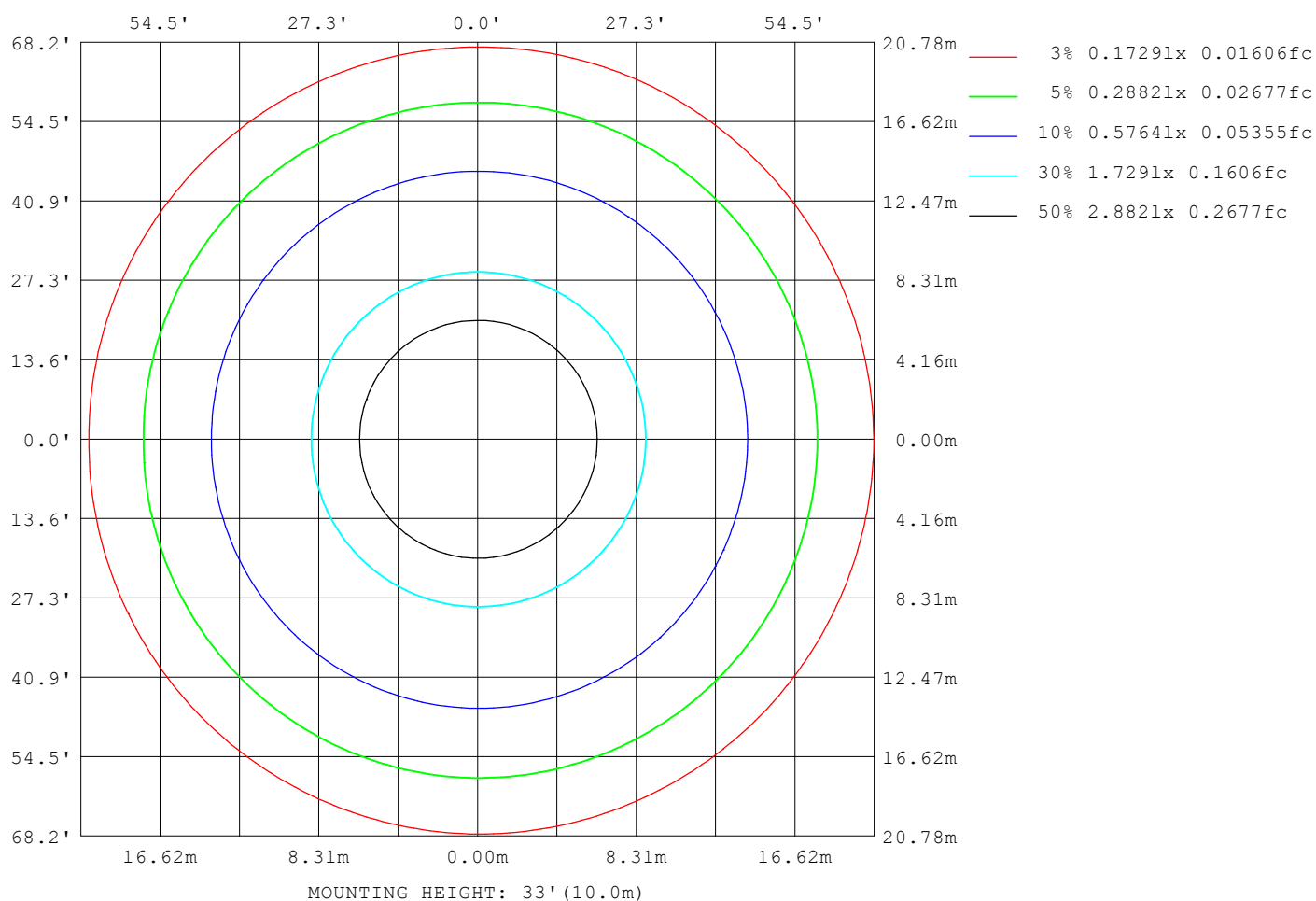
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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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.: 0.312	Shielding Angle:

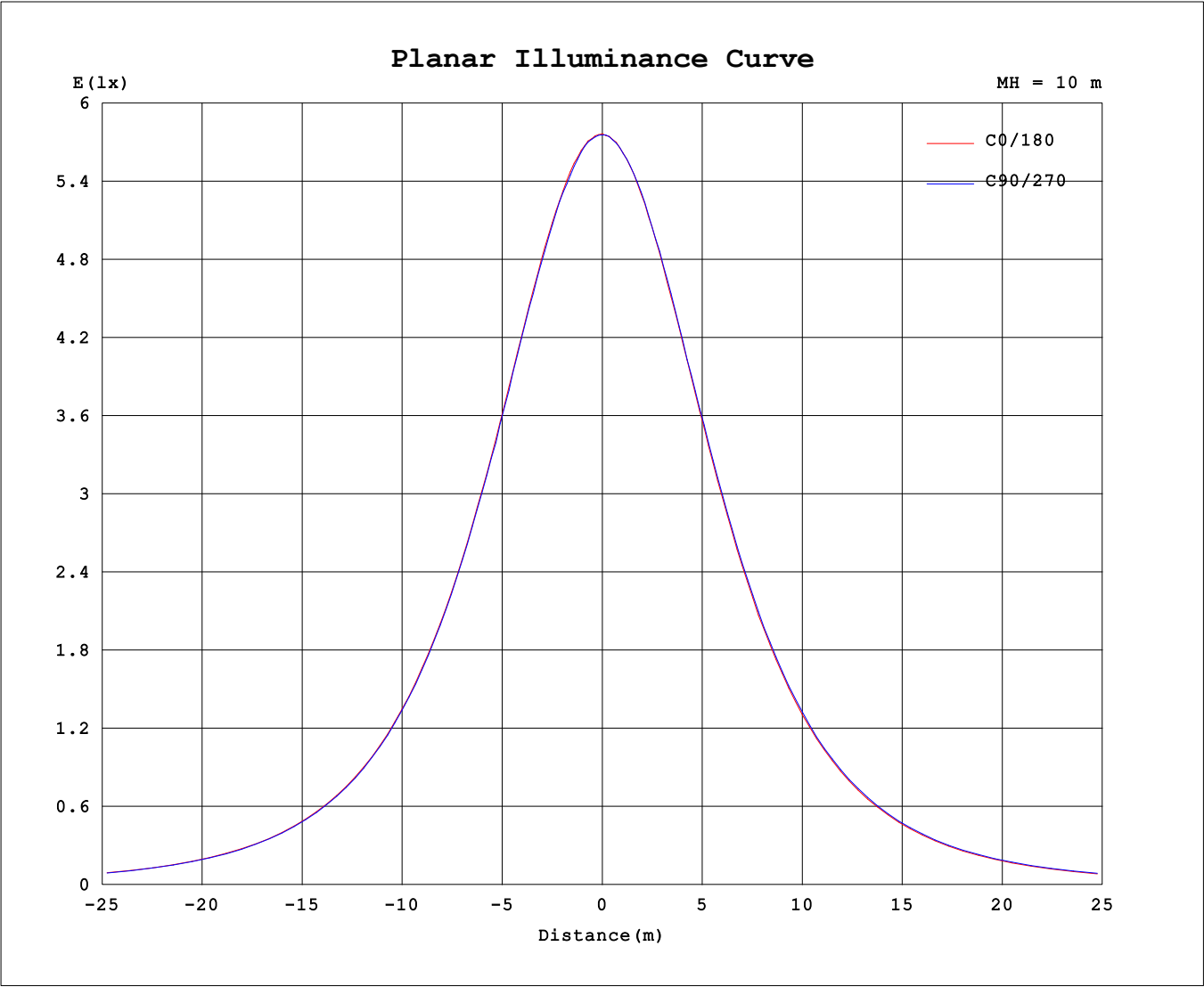
AvgL	cd/m2
L_0~180 (65) av	6144
L_0~180 (75) av	5280
L_0~180 (85) av	3604
L_90~270 (65) av	6189
L_90~270 (75) av	5382
L_90~270 (85) av	3626
L_45 (65) av	6158
L_45 (75) av	5322
L_45 (85) av	3569

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.: 0.312	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	576	576	576	576														
5	573	574	572	573														
10	566	564	563	565														
15	554	552	549	550														
20	536	535	530	532														
25	513	510	506	510														
30	486	484	477	482														
35	454	453	445	450														
40	420	418	410	414														
45	381	380	369	376														
50	340	338	328	334														
55	297	295	284	290														
60	251	249	238	243														
65	204	202	190	196														
70	157	155	143	149														
75	111	108	96.9	103														
80	67.2	65.1	54.9	60.2														
85	29.0	26.7	18.7	21.4														
90	0.19	0.01	0.03	0.03														
95	0.02	0.07	0.10	0.06														
100	0.09	0.15	0.20	0.14														
105	0.18	0.25	0.30	0.25														
110	0.27	0.35	0.41	0.35														
115	0.38	0.46	0.52	0.47														
120	0.47	0.56	0.64	0.57														
125	0.57	0.66	0.75	0.69														
130	0.67	0.75	0.86	0.79														
135	0.74	0.83	0.94	0.90														
140	0.83	0.91	1.05	0.99														
145	0.90	0.98	1.13	1.08														
150	0.99	1.06	1.21	1.16														
155	1.07	1.14	1.30	1.23														
160	1.16	1.21	1.37	1.30														
165	1.24	1.28	1.45	1.38														
170	1.30	1.34	1.48	1.43														
175	1.38	1.42	1.49	1.46														
180	1.47	1.47	1.50	1.48														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-07

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: