

LUMINAIRE PHOTOMETRIC TEST REPORT

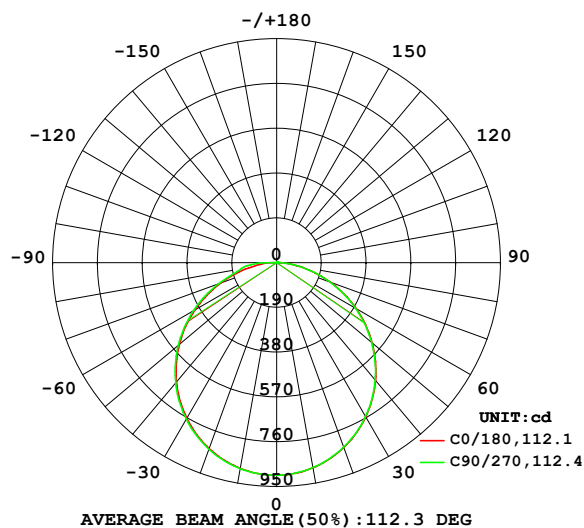
Test:U:119.75V I:0.3359A P:39.751W PF:0.9883 Freq:59.98Hz

Lamp Flux:2603.4x1 lm

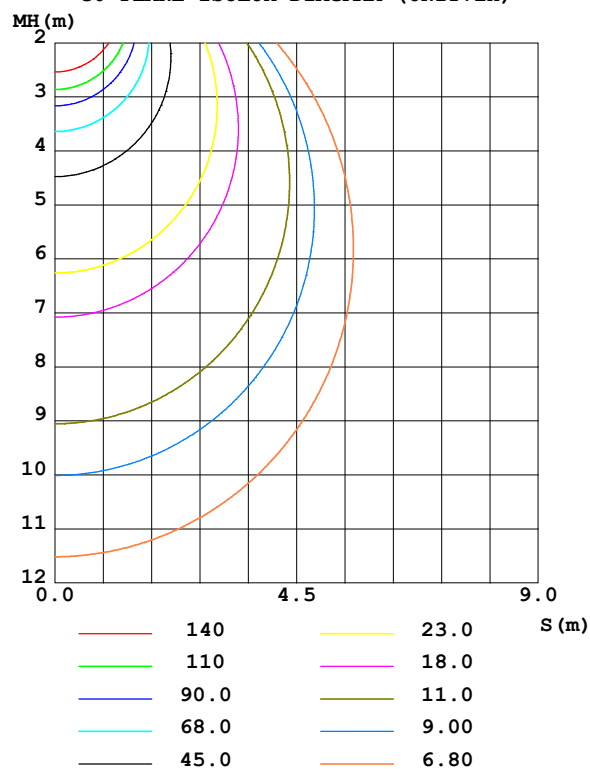
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 65.49 lm/W
MODEL	EGRF2440LAJUDBK_5000K	I _{max} (cd)	901.9	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)	2603.4	η UP,DN(C0-180)	0.1,48.8	
NOMINAL FLUX(lm)	2603.4	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

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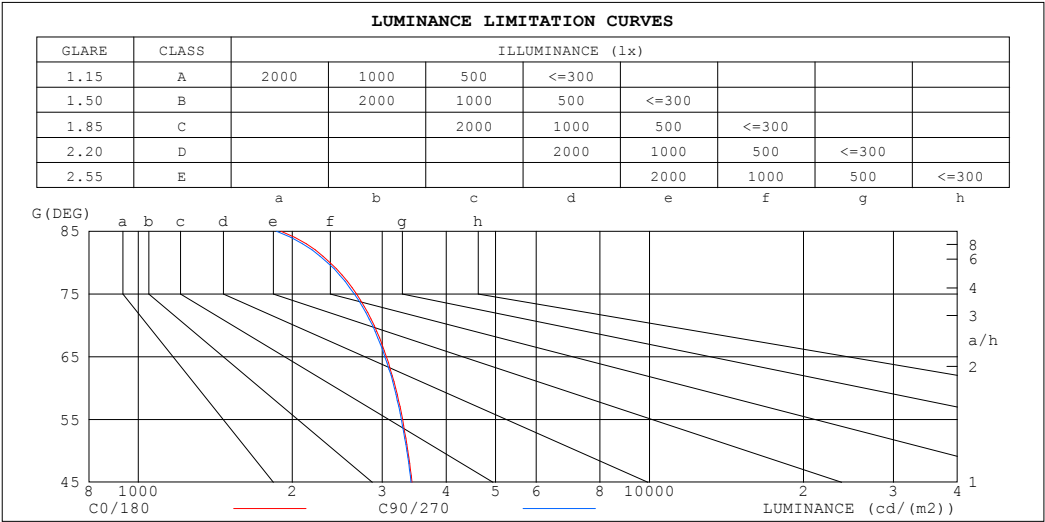
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	884.2	883.1	886.5	887.8					0- 10	85.30	85.30	3.28,3.28
20	834.7	833.0	839.2	842.0					10- 20	244.1	329.4	12.7,12.7
30	756.1	754.0	762.9	767.1					20- 30	369.6	699.0	26.8,26.8
40	652.9	650.4	661.2	666.6					30- 40	445.3	1144	44,44
50	529.0	526.3	538.6	544.9					40- 50	461.6	1606	61.7,61.7
60	389.6	386.9	399.7	406.9					50- 60	417.1	2023	77.7,77.7
70	241.7	239.9	251.5	262.1					60- 70	319.0	2342	90,90
80	100.7	99.43	109.9	154.0					70- 80	188.7	2531	97.2,97.2
90	2.467	0.1714	0.1492	0.6138					80- 90	66.54	2597	99.8,99.8
100	0.2816	0.4090	0.3816	0.3092					90-100	0.4520	2598	99.8,99.8
110	0.5634	0.6742	0.6911	0.6295					100-110	0.5206	2598	99.8,99.8
120	0.8561	0.9394	1.006	0.9389					110-120	0.7830	2599	99.8,99.8
130	1.111	1.205	1.293	1.226					120-130	0.9620	2600	99.9,99.9
140	1.293	1.376	1.536	1.475					130-140	1.017	2601	99.9,99.9
150	1.459	1.547	1.757	1.663					140-150	0.9499	2602	99.9,99.9
160	1.663	1.735	1.945	1.845					150-160	0.7853	2603	100,100
170	1.812	1.867	2.100	1.989					160-170	0.5295	2603	100,100
180	2.083	2.028	2.105	2.039					170-180	0.1884	2603	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:119.75V I:0.3359A P:39.751W PF:0.9883 Freq:59.98Hz Lamp Flux:2603.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1902	1864
80	2372	2343
75	2671	2646
70	2892	2871
65	3057	3035
60	3188	3167
55	3288	3270
50	3367	3350
45	3432	3417

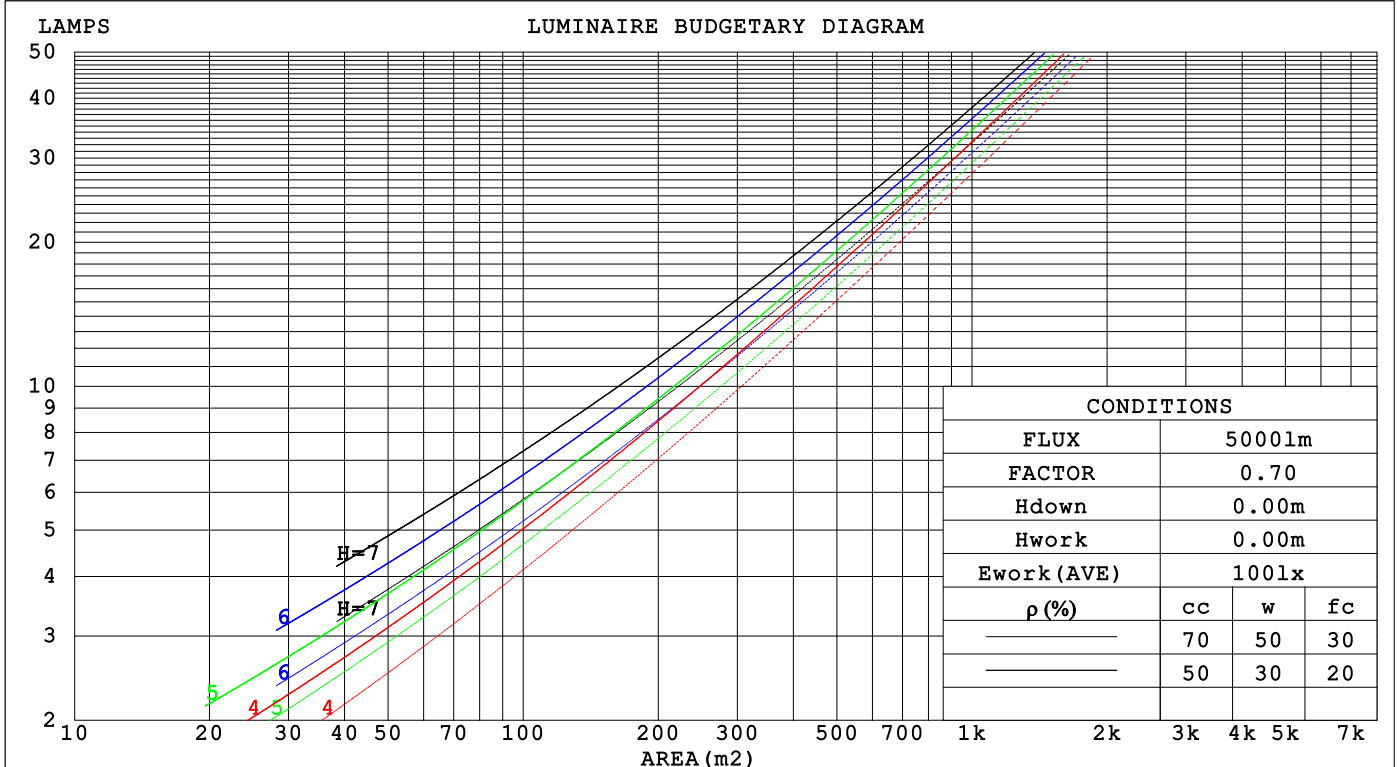
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.75V I:0.3359A P:39.751W PF:0.9883 Freq:59.98Hz Lamp Flux:2603.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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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

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NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.: 5000K	
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	.297	.171	.054	.285	.164	.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	.043	.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	.203	.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	.021	.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	.136	.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	.093	.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	.067	.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
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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:119.75V I:0.3359A P:39.751W PF:0.9883 Freq:59.98Hz Lamp Flux:2603.4x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.: 5000K			
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		16.9	18.4	17.2	18.6	18.9	16.9	18.4	17.2	18.6	18.8
3H		18.4	19.8	18.7	20.1	20.3	18.4	19.8	18.7	20.0	20.3
4H		19.0	20.4	19.3	20.6	20.9	19.0	20.3	19.3	20.6	20.8
6H		19.4	20.7	19.8	21.0	21.3	19.4	20.7	19.7	20.9	21.2
8H		19.6	20.8	19.9	21.1	21.4	19.5	20.7	19.9	21.0	21.3
12H		19.6	20.8	20.0	21.1	21.4	19.6	20.8	19.9	21.1	21.4
4H 2H		17.5	18.9	17.8	19.1	19.4	17.5	18.8	17.8	19.1	19.4
3H		19.2	20.4	19.6	20.7	21.0	19.2	20.4	19.5	20.7	21.0
4H		19.9	21.0	20.3	21.3	21.7	19.9	21.0	20.3	21.3	21.6
6H		20.5	21.4	20.9	21.8	22.1	20.4	21.4	20.8	21.7	22.1
8H		20.6	21.5	21.1	21.9	22.3	20.6	21.5	21.0	21.9	22.3
12H		20.7	21.6	21.2	22.0	22.4	20.7	21.5	21.1	21.9	22.3
8H 4H		20.2	21.1	20.6	21.4	21.8	20.1	21.0	20.6	21.4	21.8
6H		20.9	21.6	21.3	22.0	22.4	20.8	21.6	21.3	22.0	22.4
8H		21.1	21.8	21.6	22.2	22.7	21.1	21.7	21.5	22.2	22.6
12H		21.3	21.9	21.8	22.3	22.8	21.3	21.8	21.7	22.3	22.8
12H 4H		20.2	21.0	20.6	21.4	21.8	20.2	21.0	20.6	21.4	21.8
6H		20.9	21.6	21.4	22.0	22.5	20.9	21.5	21.3	22.0	22.4
8H		21.2	21.8	21.7	22.2	22.7	21.2	21.7	21.7	22.2	22.7
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, 2603 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.3$)
Area: 0.2444 m²

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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:119.75V I:0.3359A P:39.751W PF:0.9883 Freq:59.98Hz Lamp Flux:2603.4x1 lm		
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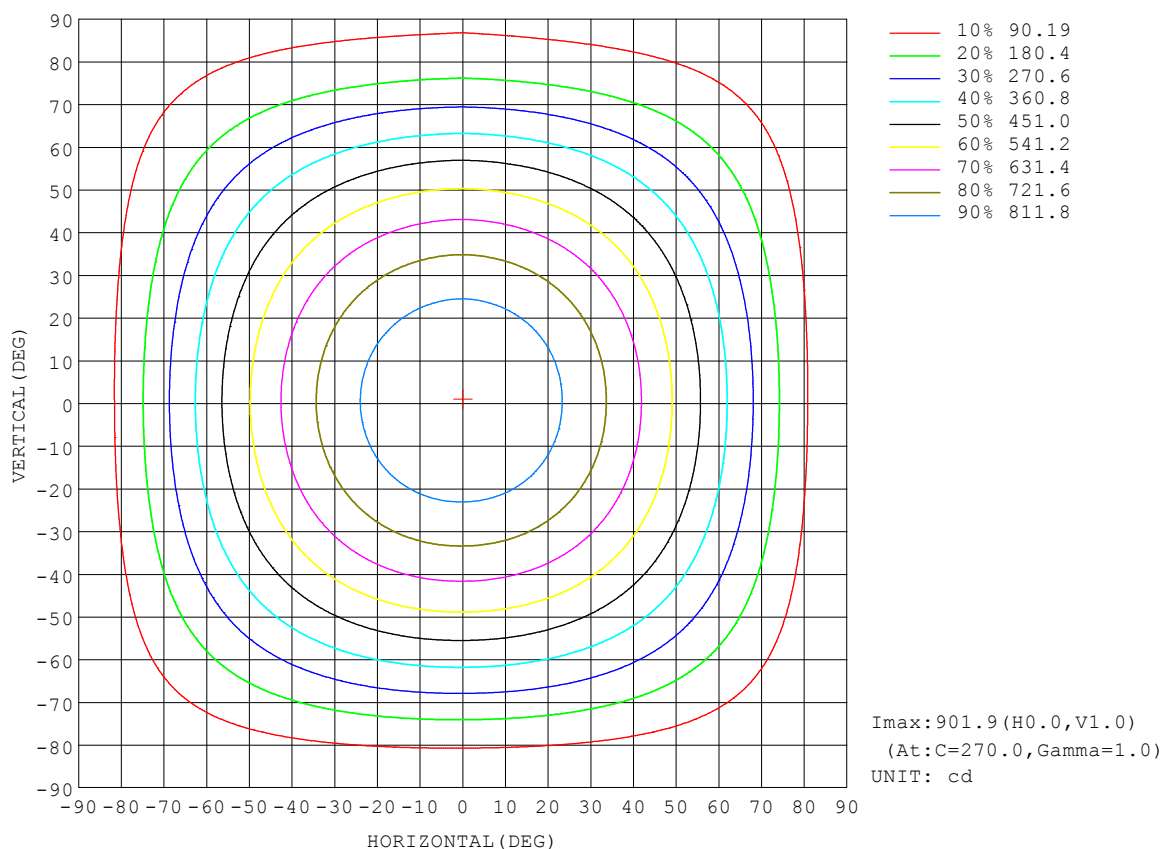
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	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	64	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		

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 Remarks:

ISOCANDELA DIAGRAM

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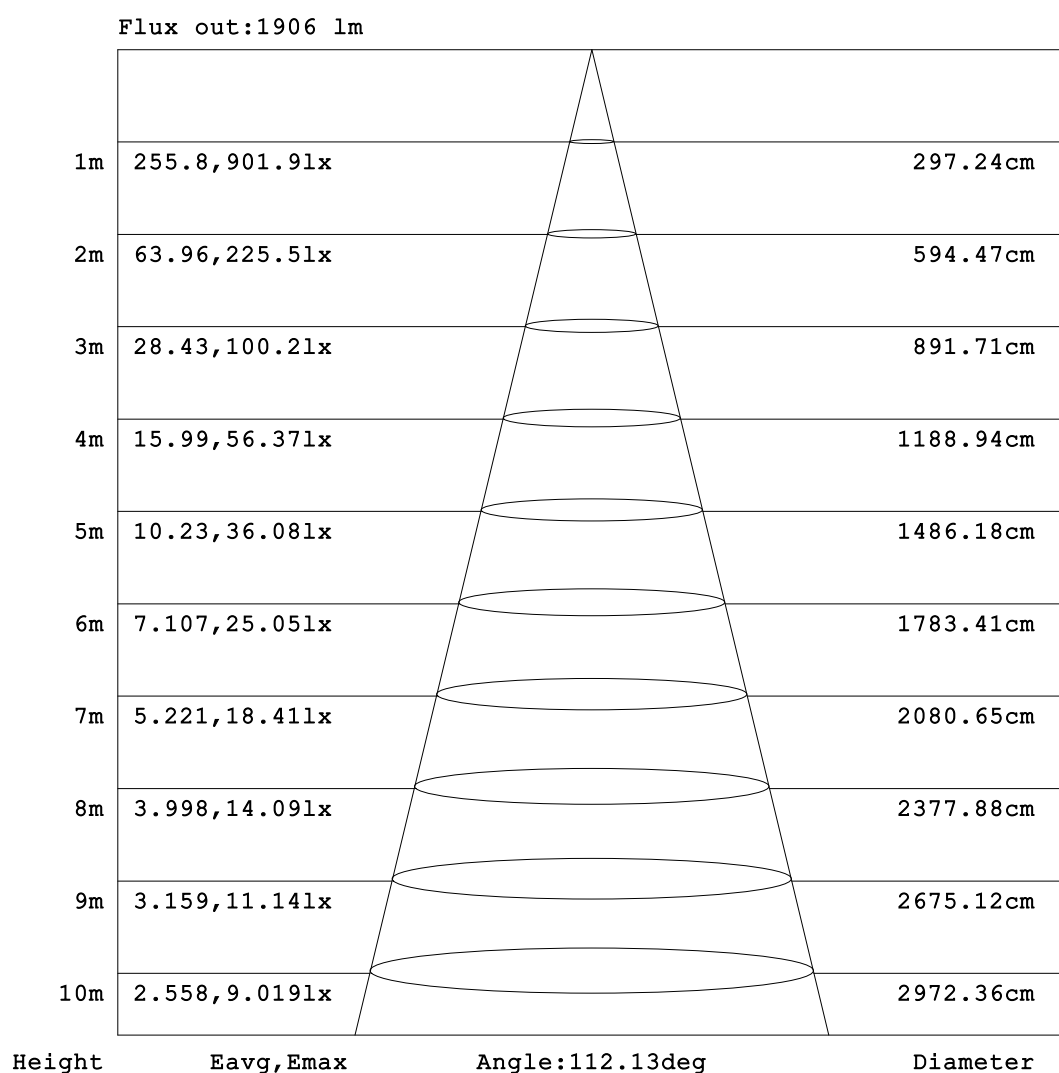


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AAI Figure

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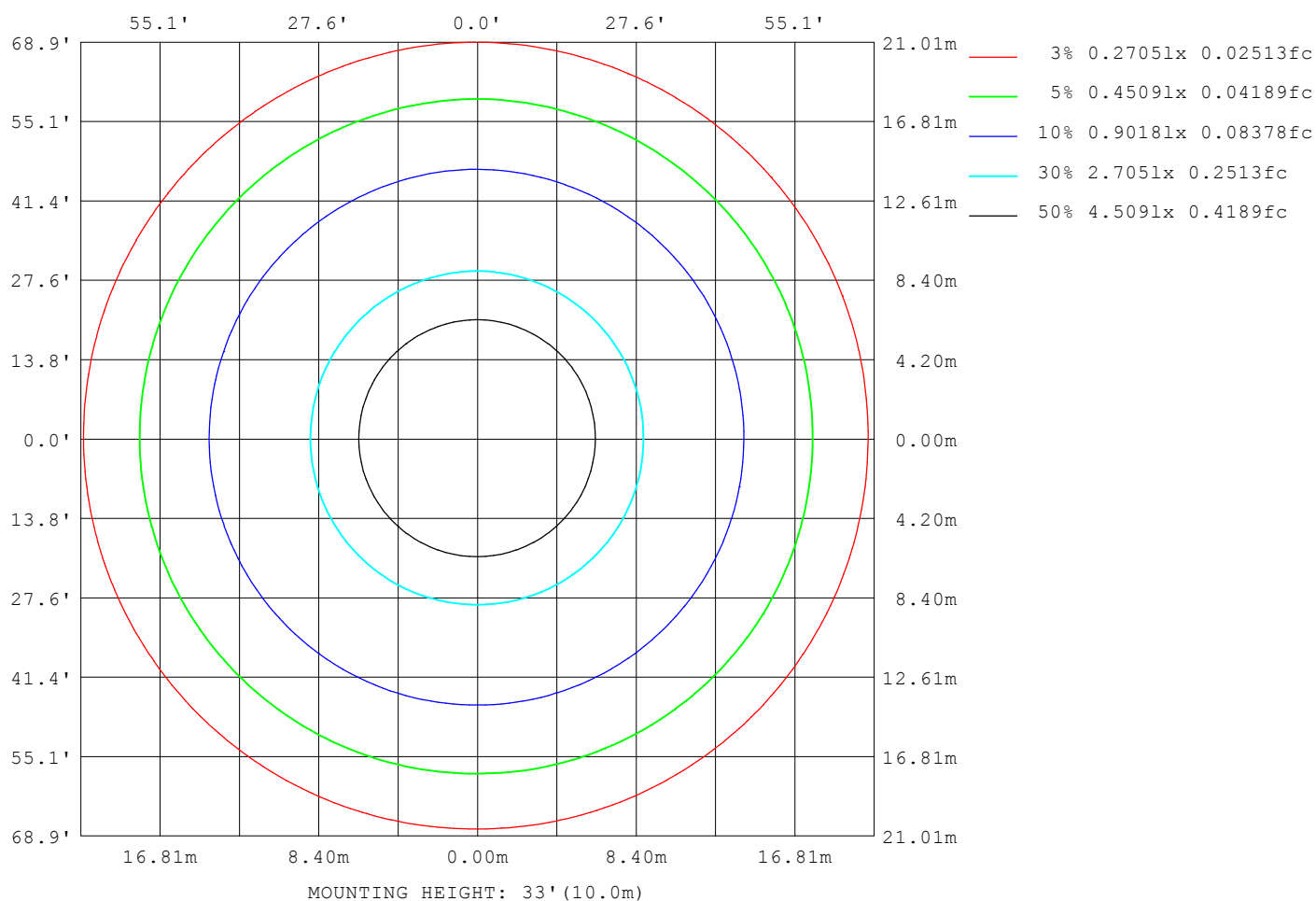
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Remarks:

LED Avg.L Report

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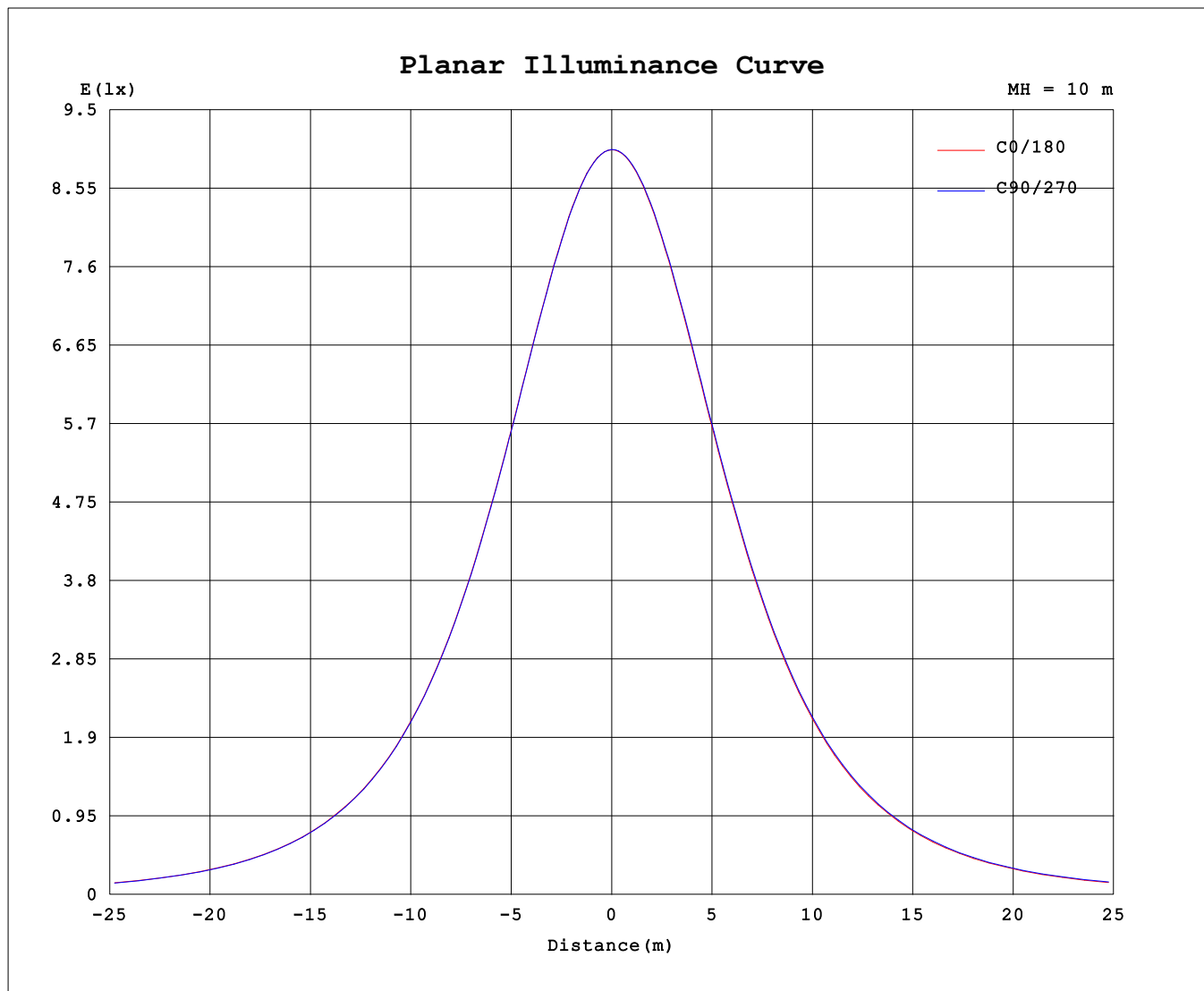
AvgL	cd/m2
L_0~180 (65) av	3107
L_0~180 (75) av	2746
L_0~180 (85) av	2349
L_90~270 (65) av	3136
L_90~270 (75) av	2847
L_90~270 (85) av	3562
L_45 (65) av	3128
L_45 (75) av	2814
L_45 (85) av	3135

Standard: GB/T 29293-2012

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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:119.75V I:0.3359A P:39.751W PF:0.9883 Freq:59.98Hz Lamp Flux:2603.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	902	902	902	902														
5	897	897	898	899														
10	884	883	886	888														
15	863	862	867	869														
20	835	833	839	842														
25	799	797	804	808														
30	756	754	763	767														
35	707	705	715	720														
40	653	650	661	667														
45	593	591	602	608														
50	529	526	539	545														
55	461	458	471	478														
60	390	387	400	407														
65	316	313	326	334														
70	242	240	251	262														
75	169	167	178	193														
80	101	99.4	110	154														
85	40.5	39.7	59.6	112														
90	2.47	0.17	0.15	0.61														
95	0.57	0.28	0.25	0.19														
100	0.28	0.41	0.38	0.31														
105	0.43	0.53	0.53	0.47														
110	0.56	0.67	0.69	0.63														
115	0.72	0.82	0.85	0.78														
120	0.86	0.94	1.01	0.94														
125	0.99	1.08	1.15	1.09														
130	1.11	1.20	1.29	1.23														
135	1.19	1.29	1.42	1.35														
140	1.29	1.38	1.54	1.47														
145	1.37	1.47	1.64	1.57														
150	1.46	1.55	1.76	1.66														
155	1.56	1.64	1.85	1.76														
160	1.66	1.73	1.95	1.85														
165	1.75	1.82	2.03	1.92														
170	1.81	1.87	2.10	1.99														
175	1.89	1.93	2.10	2.02														
180	2.08	2.03	2.11	2.04														

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: