

LUMINAIRE PHOTOMETRIC TEST REPORT

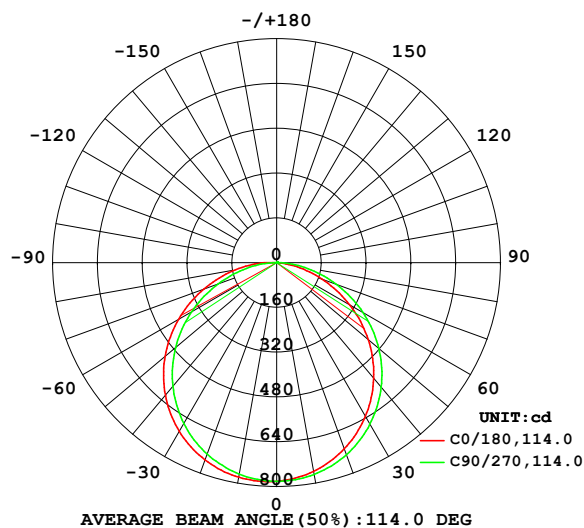
Test:U:119.94V I:0.1927A P:22.740W PF:0.9837 Freq:59.98Hz

Lamp Flux:2297.32x1 lm

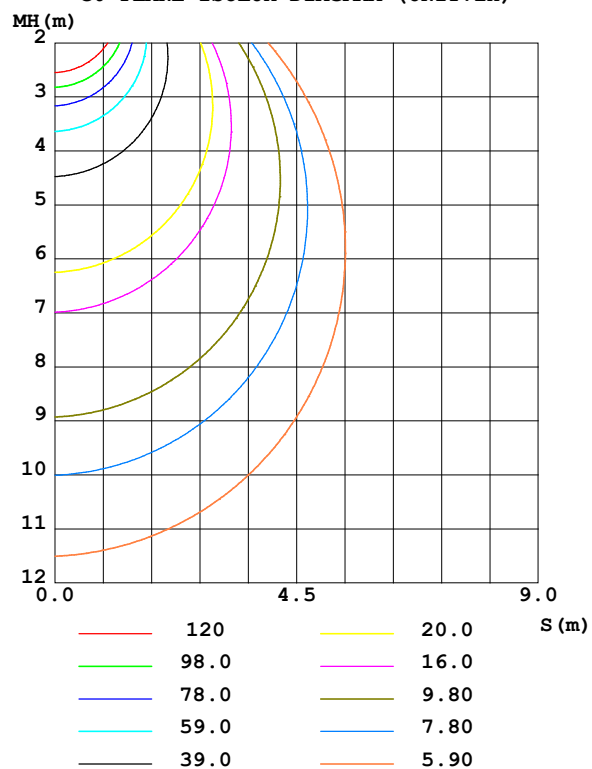
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.296	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 101.03 lm/W
MODEL	BRMF12LAJD4WH_3500K	I _{max} (cd)	783.4	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2297.3	η UP,DN(C0-180)	0.1,47.1	
NOMINAL FLUX(lm)	2297.32	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,52.6	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down (%)	99.7	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:2025-12-05

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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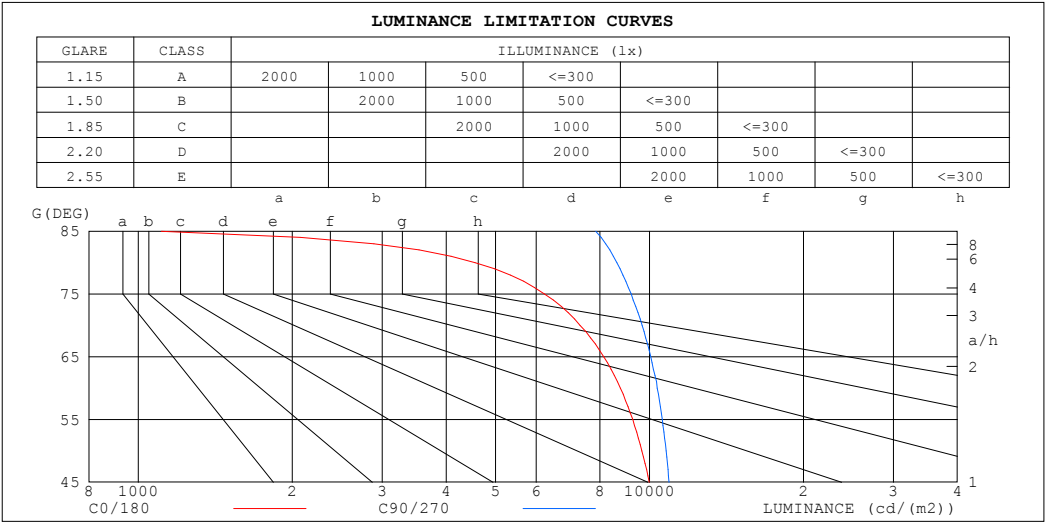
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	757.1	768.6	778.3	767.3					0- 10	73.93	73.93	3.22,3.22
20	707.8	730.1	750.0	727.6					10- 20	212.1	286.1	12.5,12.5
30	634.5	666.4	696.0	663.5					20- 30	322.6	608.7	26.5,26.5
40	539.7	581.1	618.5	576.5					30- 40	390.8	999.4	43.5,43.5
50	427.5	476.4	520.4	471.2					40- 50	407.6	1407	61.2,61.2
60	301.8	356.2	405.1	350.4					50- 60	370.9	1778	77.4,77.4
70	172.1	227.6	277.6	222.2					60- 70	286.4	2064	89.9,89.9
80	54.48	103.1	149.0	98.60					70- 80	171.0	2235	97.3,97.3
90	0.2501	1.048	35.43	0.3332					80- 90	54.27	2290	99.7,99.7
100	0.3589	0.3096	0.2931	0.3423					90-100	2.104	2292	99.8,99.8
110	0.6408	0.5913	0.5363	0.6131					100-110	0.4799	2292	99.8,99.8
120	0.9391	0.8730	0.8457	0.9334					110-120	0.7398	2293	99.8,99.8
130	1.188	1.144	1.161	1.248					120-130	0.9321	2294	99.8,99.8
140	1.398	1.365	1.448	1.524					130-140	1.013	2295	99.9,99.9
150	1.586	1.575	1.702	1.757					140-150	0.9671	2296	99.9,99.9
160	1.785	1.784	1.934	1.955					150-160	0.8117	2297	100,100
170	1.973	1.961	2.144	2.110					160-170	0.5516	2297	100,100
180	2.199	2.160	2.210	2.171					170-180	0.2005	2297	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:2025-12-05

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:119.94V I:0.1927A P:22.740W PF:0.9837 Freq:59.98Hz Lamp Flux:2297.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.296	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1110	7845
80	4559	8631
75	6229	9210
70	7312	9673
65	8138	10051
60	8771	10355
55	9270	10589
50	9665	10774
45	9979	10912

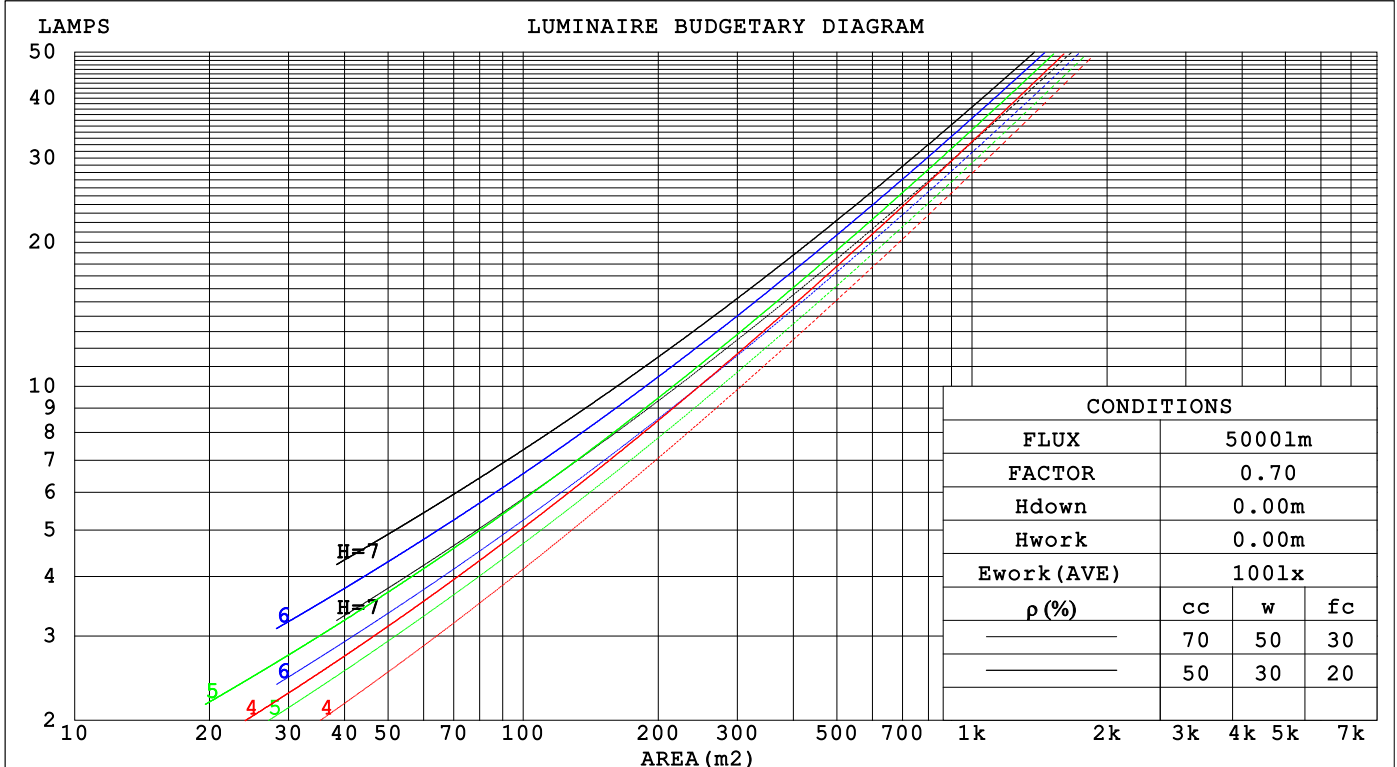
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.296	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	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.57
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.37	.30	.25	.36	.30	.25	.23



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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

Test:U:119.94V I:0.1927A P:22.740W PF:0.9837 Freq:59.98Hz Lamp Flux:2297.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.296	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	.170	.054	.285	.164	.053	.273	.158	.051															
2.0	.297	.163	.050	.290	.160	.049	.279	.155	.048	.268	.150	.047	.257	.146	.046															
3.0	.274	.146	.044	.268	.144	.043	.257	.140	.042	.248	.136	.042	.239	.132	.041															
4.0	.252	.131	.038	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037															
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033															
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030															
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027															
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025															
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023															
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.183	.159	.136	.157	.136	.117	.107	.094	.081	.062	.054	.047	.020	.017	.015	
2.0	.176	.135	.100	.150	.116	.086	.103	.080	.060	.059	.047	.035	.019	.015	.012	
3.0	.168	.117	.076	.144	.101	.066	.099	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.160	.104	.061	.137	.090	.053	.095	.062	.037	.055	.037	.022	.018	.012	.007	
5.0	.153	.093	.050	.131	.081	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.042	.125	.074	.036	.086	.052	.026	.050	.030	.015	.016	.010	.005	
7.0	.139	.078	.036	.119	.068	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.072	.031	.114	.063	.027	.079	.044	.019	.046	.026	.012	.015	.009	.004	
9.0	.126	.067	.028	.109	.058	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.063	.025	.104	.055	.022	.072	.039	.016	.042	.023	.009	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
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Operators:
Test Date:2025-12-05

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:119.94V I:0.1927A P:22.740W PF:0.9837 Freq:59.98Hz Lamp Flux:2297.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.296	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	20.3	21.9	20.6	22.1	22.3	20.9	22.4	21.2	22.6	22.9
3H	21.6	23.0	21.9	23.3	23.5	22.5	23.9	22.8	24.1	24.4
4H	22.1	23.4	22.4	23.7	23.9	23.1	24.5	23.5	24.7	25.0
6H	22.3	23.6	22.6	23.9	24.1	23.6	24.9	24.0	25.2	25.5
8H	22.3	23.6	22.7	23.8	24.1	23.8	25.0	24.2	25.3	25.6
12H	22.3	23.5	22.7	23.8	24.1	23.9	25.1	24.3	25.4	25.7
4H 2H	21.0	22.3	21.3	22.6	22.9	21.4	22.8	21.7	23.0	23.3
3H	22.5	23.6	22.8	23.9	24.3	23.2	24.4	23.5	24.7	25.0
4H	23.0	24.1	23.4	24.4	24.8	24.0	25.0	24.3	25.4	25.7
6H	23.4	24.3	23.8	24.7	25.1	24.6	25.5	25.0	25.9	26.3
8H	23.4	24.3	23.8	24.7	25.1	24.8	25.7	25.2	26.1	26.5
12H	23.4	24.2	23.8	24.6	25.0	25.0	25.8	25.4	26.2	26.6
8H 4H	23.3	24.2	23.7	24.6	25.0	24.2	25.1	24.6	25.4	25.8
6H	23.8	24.5	24.2	25.0	25.4	24.9	25.7	25.4	26.1	26.5
8H	23.9	24.6	24.4	25.0	25.5	25.2	25.9	25.7	26.3	26.8
12H	23.9	24.5	24.4	24.9	25.4	25.5	26.0	26.0	26.5	27.0
12H 4H	23.3	24.2	23.8	24.6	25.0	24.1	25.0	24.6	25.4	25.8
6H	23.9	24.5	24.3	25.0	25.4	24.9	25.6	25.4	26.0	26.5
8H	24.0	24.6	24.5	25.0	25.5	25.3	25.9	25.8	26.3	26.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 2297 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.9$)
Area: 0.0688 m²

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:

UTILIZATION FACTORS TABLE

Test:U:119.94V I:0.1927A P:22.740W PF:0.9837 Freq:59.98Hz Lamp Flux:2297.32x1 lm		
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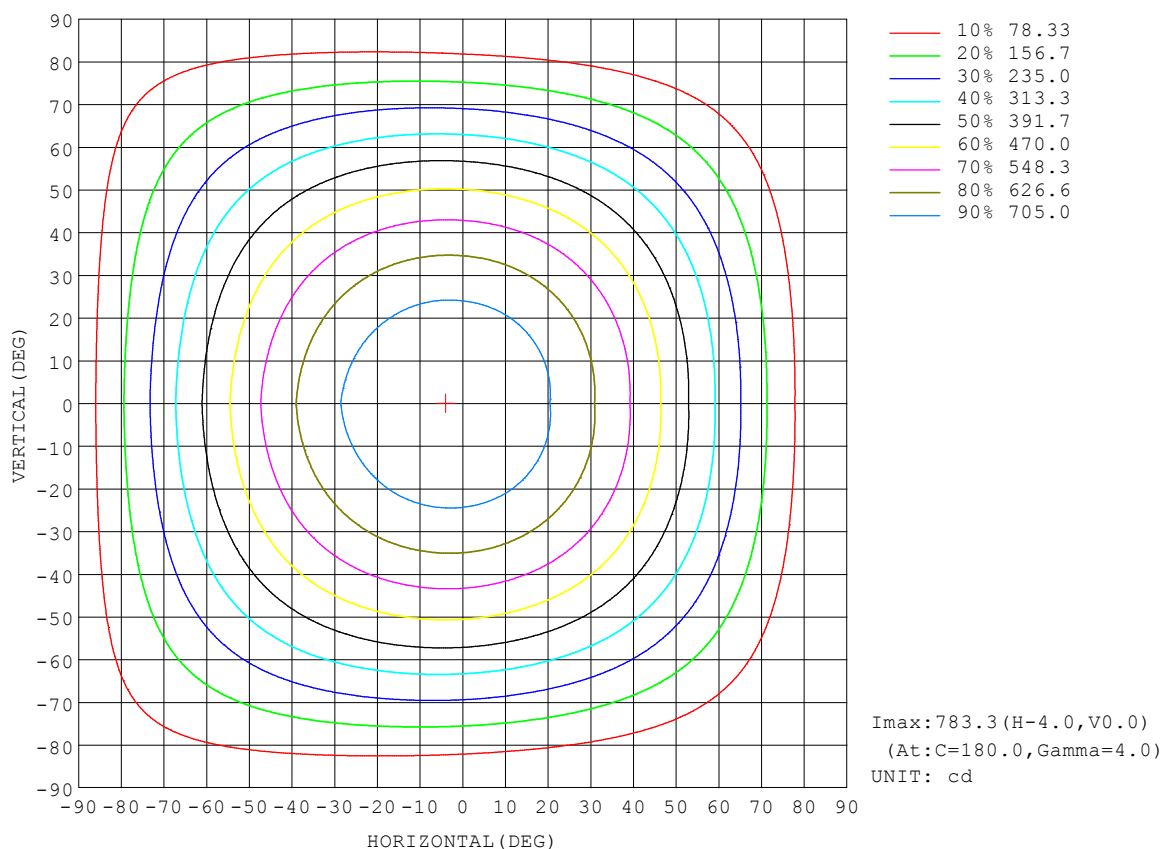
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	64	81	71	64	78	70	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	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		

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ISOCANDELA DIAGRAM

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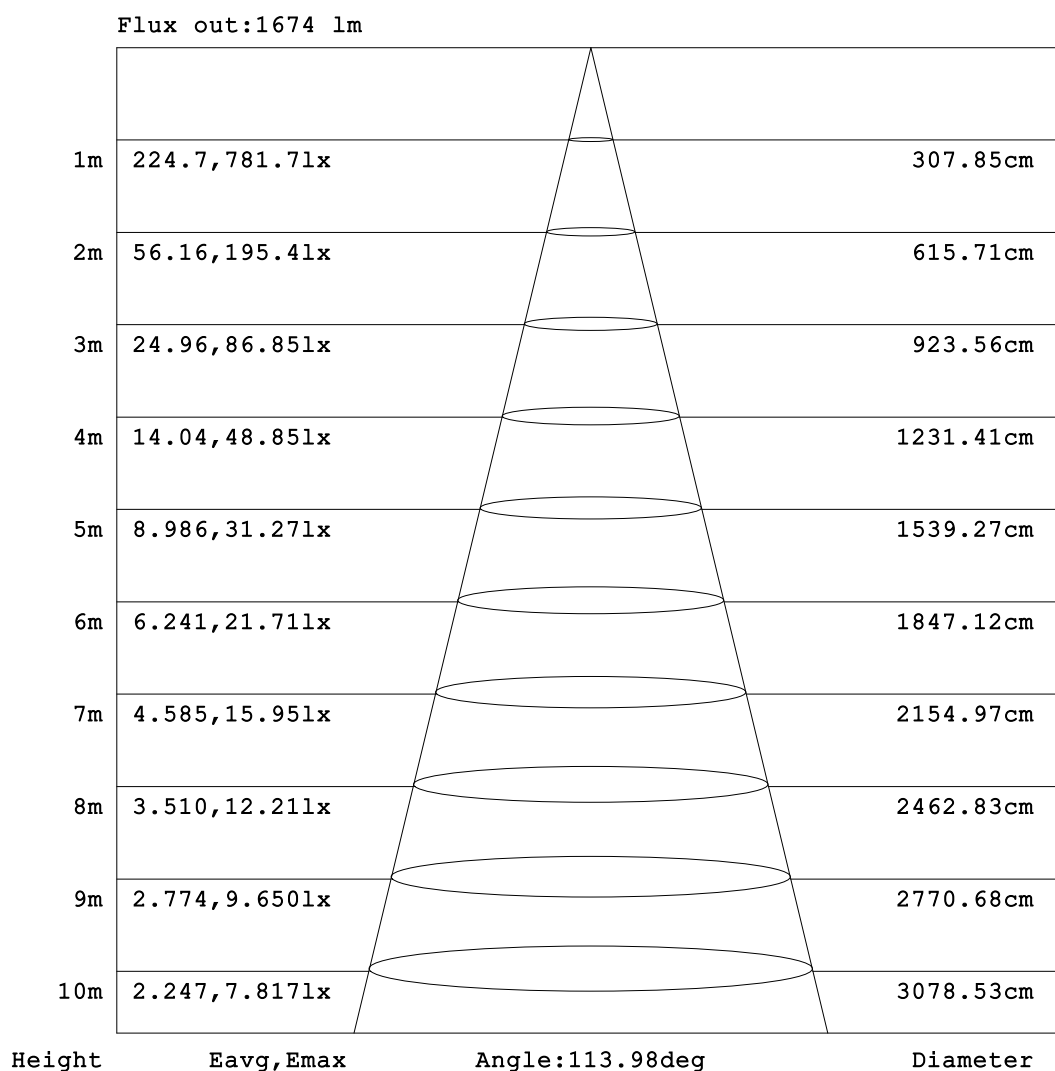


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AAI Figure

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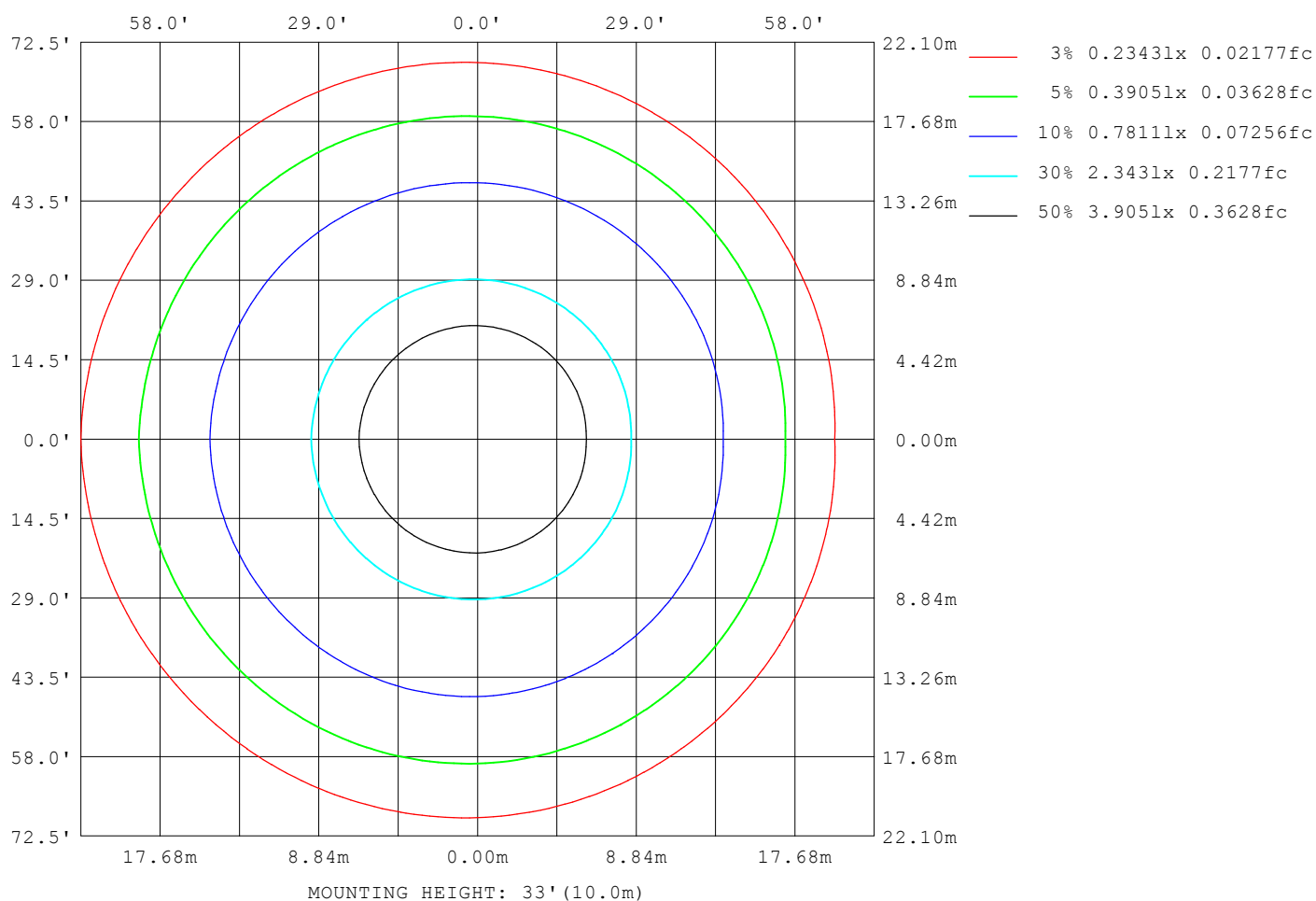
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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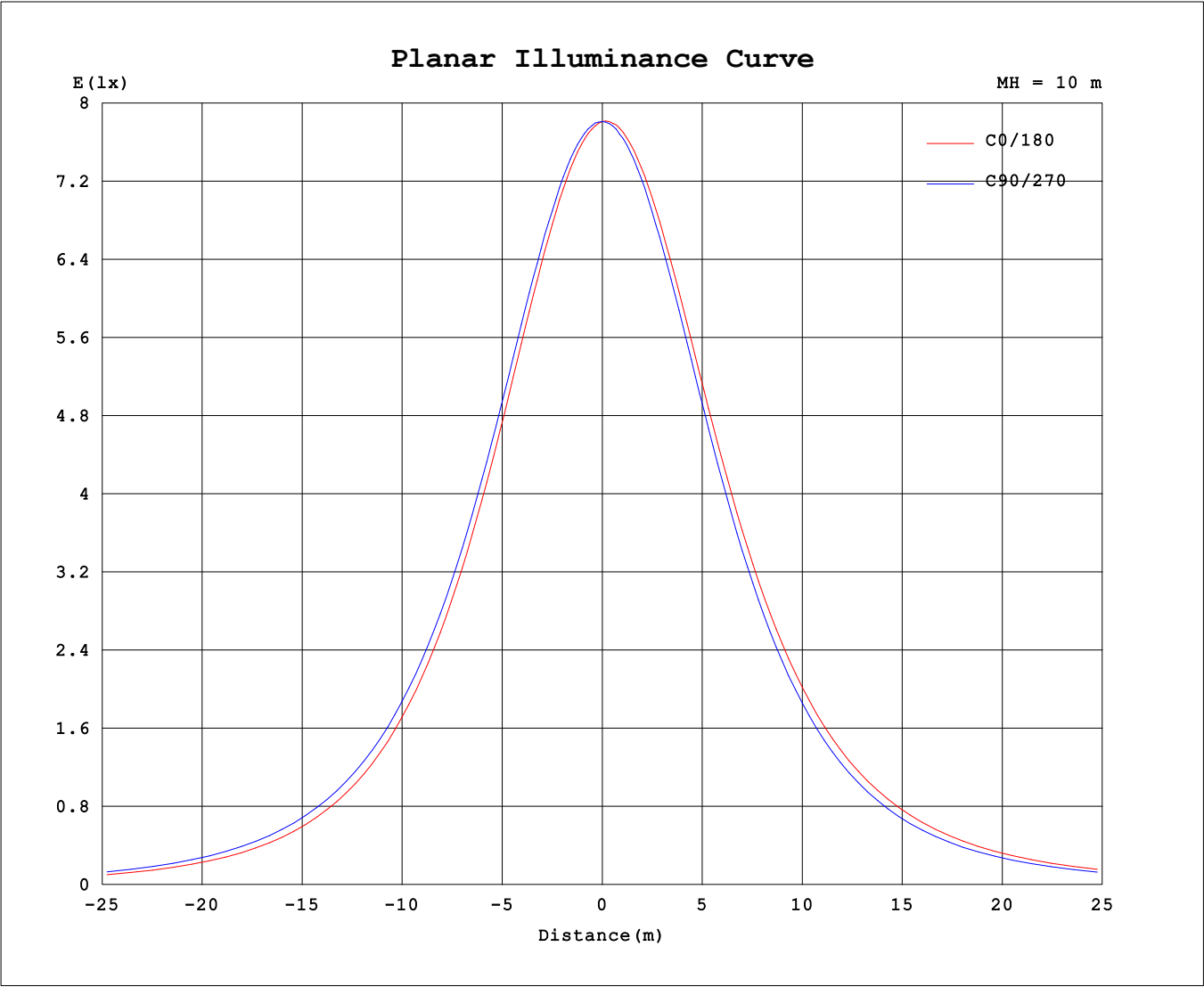
AvgL	cd/m2
L_0~180 (65) av	9963
L_0~180 (75) av	9082
L_0~180 (85) av	7986
L_90~270 (65) av	9953
L_90~270 (75) av	9067
L_90~270 (85) av	7557
L_45 (65) av	10071
L_45 (75) av	9251
L_45 (85) av	8148

Standard: GB/T 29293-2012

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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:2025-12-05

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:119.94V I:0.1927A P:22.740W PF:0.9837 Freq:59.98Hz Lamp Flux:2297.32x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.296	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	781	781	781	781														
5	772	778	783	777														
10	757	769	778	767														
15	735	753	768	750														
20	708	730	750	728														
25	674	701	726	699														
30	635	666	696	663														
35	590	627	660	623														
40	540	581	619	576														
45	486	531	572	526														
50	427	476	520	471														
55	366	418	464	412														
60	302	356	405	350														
65	237	292	343	287														
70	172	228	278	222														
75	111	164	213	159														
80	54.5	103	149	98.6														
85	6.65	47.0	89.1	43.6														
90	0.25	1.05	35.4	0.33														
95	0.25	0.19	0.24	0.25														
100	0.36	0.31	0.29	0.34														
105	0.50	0.45	0.38	0.47														
110	0.64	0.59	0.54	0.61														
115	0.80	0.73	0.69	0.78														
120	0.94	0.87	0.85	0.93														
125	1.07	1.01	1.00	1.10														
130	1.19	1.14	1.16	1.25														
135	1.29	1.25	1.31	1.39														
140	1.40	1.36	1.45	1.52														
145	1.49	1.46	1.59	1.66														
150	1.59	1.57	1.70	1.76														
155	1.69	1.68	1.82	1.86														
160	1.78	1.78	1.93	1.96														
165	1.88	1.87	2.04	2.03														
170	1.97	1.96	2.14	2.11														
175	2.08	2.06	2.22	2.17														
180	2.20	2.16	2.21	2.17														

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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:

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	781.2	781.2	781.2	781.2
3.0	776.5	780.0	782.8	779.9
6.0	769.8	776.6	782.9	776.3
9.0	760.8	770.9	779.9	770.0
12.0	749.3	762.7	774.9	761.6
15.0	735.5	752.7	767.7	749.9
18.0	719.7	739.3	757.6	737.9
21.0	701.5	725.1	745.5	722.4
24.0	681.0	707.2	731.2	704.7
27.0	658.6	687.8	714.6	685.4
30.0	634.5	666.4	696.0	663.5
33.0	608.2	643.0	675.0	639.4
36.0	580.1	617.8	652.2	613.9
39.0	550.2	591.0	627.0	586.3
42.0	519.0	561.7	600.4	557.0
45.0	485.5	530.8	571.9	525.9
48.0	451.1	498.6	541.4	493.5
51.0	415.5	465.3	509.4	459.3
54.0	378.1	429.6	476.1	424.5
57.0	340.2	393.5	441.2	387.7
60.0	301.8	356.2	405.1	350.4
63.0	262.7	317.8	367.7	312.5
66.0	223.5	279.4	329.6	273.5
69.0	185.0	240.5	290.8	235.0
72.0	147.4	201.8	251.5	196.8
75.0	110.9	164.0	212.5	158.9
78.0	76.51	126.8	174.4	122.2
81.0	44.03	91.38	136.7	87.50
84.0	14.94	57.87	100.7	54.15
87.0	0.2557	26.69	66.90	23.50
90.0	0.2501	1.048	35.43	0.3332
93.0	0.2521	0.1714	7.510	0.2431
96.0	0.2541	0.2156	0.2487	0.2486
99.0	0.3312	0.2765	0.2765	0.3203
102.0	0.4086	0.3649	0.3262	0.3866
105.0	0.5025	0.4477	0.3816	0.4694
108.0	0.5909	0.5306	0.4647	0.5576
111.0	0.6738	0.6189	0.5639	0.6461
114.0	0.7622	0.6964	0.6634	0.7455
117.0	0.8506	0.7848	0.7465	0.8394
120.0	0.9391	0.8730	0.8457	0.9334
123.0	1.006	0.9614	0.9342	1.038
126.0	1.088	1.033	1.034	1.132
129.0	1.155	1.116	1.128	1.215
132.0	1.227	1.182	1.216	1.309
135.0	1.287	1.254	1.310	1.392
138.0	1.359	1.321	1.398	1.480
141.0	1.409	1.381	1.476	1.547
144.0	1.470	1.437	1.553	1.619
147.0	1.525	1.503	1.630	1.696
150.0	1.586	1.575	1.702	1.757
153.0	1.647	1.630	1.780	1.812
156.0	1.713	1.691	1.829	1.873
159.0	1.763	1.751	1.912	1.933
162.0	1.823	1.818	1.973	1.983
165.0	1.884	1.867	2.045	2.033
168.0	1.939	1.917	2.111	2.083
171.0	2.000	1.972	2.161	2.127
174.0	2.050	2.044	2.200	2.154
177.0	2.111	2.105	2.216	2.177
180.0	2.199	2.160	2.210	2.171

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