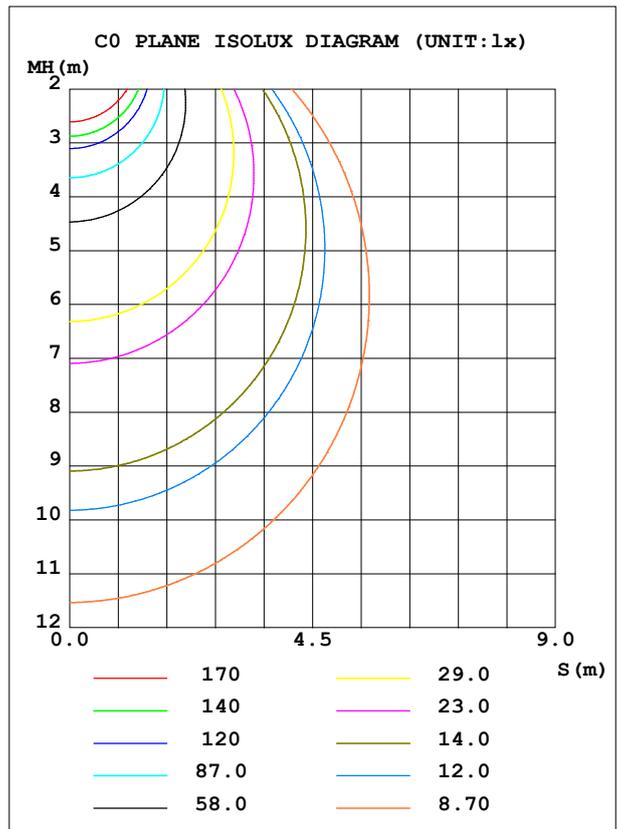
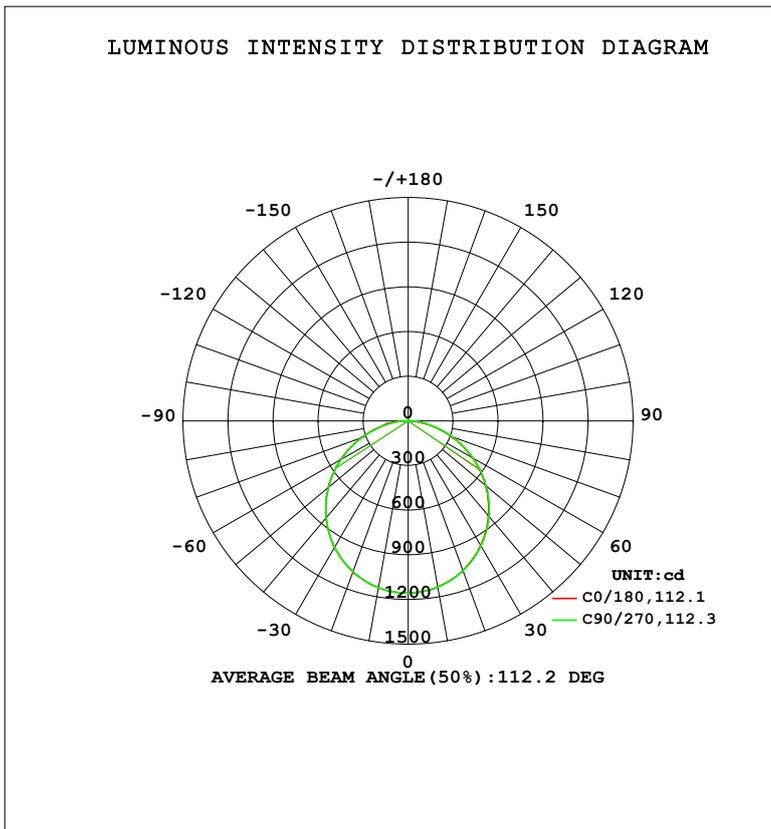


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2440LAJUDSN_ 5000K	Imax (cd)	1157	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)	3324.2	η UP, DN (C0-180)	0.1,49.1
NOMINAL FLUX (lm)	3324.16	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,50.7
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



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-10-29

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:

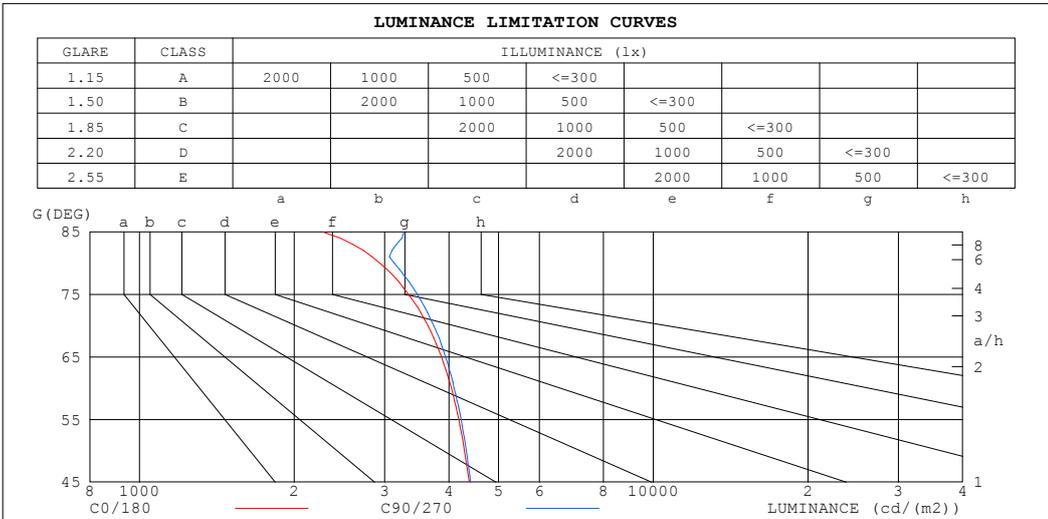
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1133	1134	1138	1137					0- 10	109.4	109.4	3.29,3.29
20	1069	1071	1078	1077					10- 20	313.1	422.5	12.7,12.7
30	967.3	970.7	981.1	979.9					20- 30	474.0	896.5	27,27
40	833.4	838.2	851.5	849.6					30- 40	570.9	1467	44.1,44.1
50	673.9	679.6	695.8	693.0					40- 50	591.7	2059	61.9,61.9
60	494.2	500.8	518.5	514.6					50- 60	534.5	2594	78,78
70	304.3	312.5	331.0	325.9					60- 70	408.8	3002	90.3,90.3
80	124.6	132.9	162.5	143.6					70- 80	238.9	3241	97.5,97.5
90	1.282	0.1771	2.231	1.844					80- 90	74.90	3316	99.8,99.8
100	0.4359	0.4646	0.4974	0.4750					90-100	0.4495	3317	99.8,99.8
110	0.7949	0.8515	0.9062	0.8950					100-110	0.6997	3317	99.8,99.8
120	1.132	1.216	1.309	1.282					110-120	1.041	3318	99.8,99.8
130	1.458	1.553	1.663	1.652					120-130	1.266	3320	99.9,99.9
140	1.717	1.797	1.983	1.962					130-140	1.336	3321	99.9,99.9
150	1.922	1.985	2.270	2.238					140-150	1.242	3322	99.9,99.9
160	2.192	2.244	2.513	2.493					150-160	1.030	3323	100,100
170	2.435	2.465	2.701	2.708					160-170	0.6977	3324	100,100
180	2.690	2.775	2.728	2.808					170-180	0.2510	3324	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:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 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	2272	3272
80	2937	3130
75	3339	3473
70	3642	3737
65	3871	3939
60	4046	4097
55	4183	4224
50	4292	4324
45	4380	4406

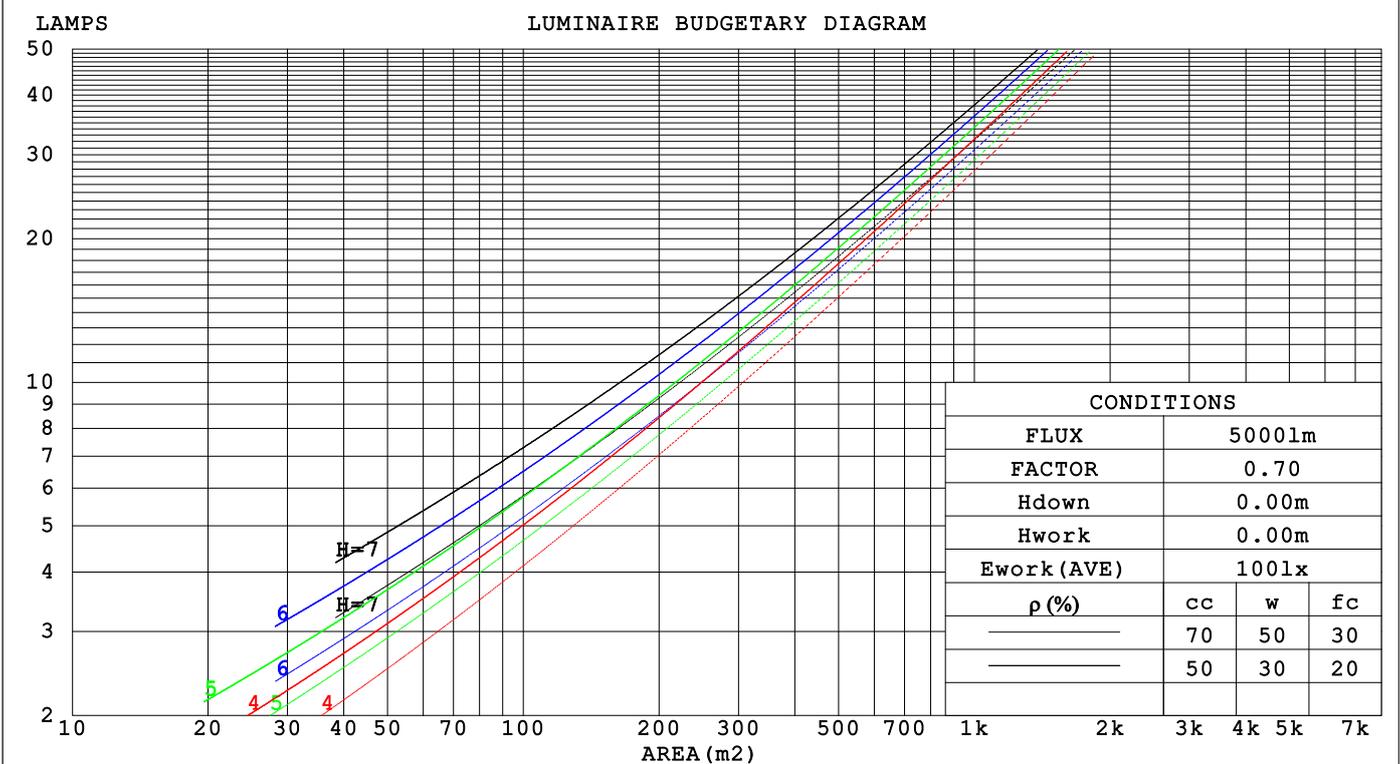
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.49	.45	.43
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	.49	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.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



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz		
Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.315	.179	.057	.307	.175	.056	.294	.169	.054	.282	.162	.052	.270	.157	.051	
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.046	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.228	.122	.037	.220	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.107	.093	.081	.061	.054	.047	.020	.017	.015	
2.0	.174	.134	.100	.149	.115	.086	.102	.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	.136	.089	.052	.094	.062	.037	.054	.036	.022	.017	.012	.007	
5.0	.152	.093	.049	.130	.080	.043	.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	.031	.082	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.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
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz										
Lamp Flux:3324.16x1 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	17.8	19.3	18.0	19.5	19.7	17.8	19.3	18.1	19.5	19.7
3H	19.2	20.6	19.5	20.9	21.1	19.3	20.7	19.6	21.0	21.2
4H	19.8	21.2	20.1	21.4	21.7	19.9	21.3	20.2	21.5	21.8
6H	20.2	21.5	20.6	21.8	22.0	20.3	21.6	20.7	21.9	22.2
8H	20.3	21.6	20.7	21.8	22.1	20.5	21.7	20.8	22.0	22.3
12H	20.4	21.6	20.8	21.9	22.2	20.6	21.8	21.0	22.1	22.4
4H 2H	18.4	19.7	18.7	20.0	20.2	18.4	19.7	18.7	20.0	20.3
3H	20.0	21.2	20.4	21.5	21.8	20.1	21.3	20.5	21.6	21.9
4H	20.7	21.8	21.1	22.1	22.5	20.8	21.9	21.2	22.2	22.6
6H	21.3	22.2	21.7	22.6	22.9	21.4	22.3	21.8	22.7	23.1
8H	21.4	22.3	21.8	22.7	23.1	21.6	22.5	22.0	22.9	23.2
12H	21.5	22.4	22.0	22.7	23.2	21.8	22.6	22.2	23.0	23.4
8H 4H	21.0	21.9	21.4	22.3	22.7	21.1	22.0	21.5	22.3	22.7
6H	21.7	22.4	22.1	22.8	23.3	21.8	22.5	22.2	22.9	23.4
8H	21.9	22.6	22.4	23.0	23.5	22.1	22.7	22.5	23.2	23.6
12H	22.1	22.7	22.6	23.1	23.6	22.4	22.9	22.8	23.4	23.9
12H 4H	21.0	21.8	21.4	22.2	22.6	21.1	21.9	21.5	22.3	22.7
6H	21.7	22.4	22.2	22.8	23.3	21.8	22.5	22.3	22.9	23.4
8H	22.0	22.6	22.5	23.0	23.5	22.2	22.7	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, 3324 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.2)
 Area: 0.2444 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:8.800m [K=1.0000]
Test Date:2025-10-29	Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

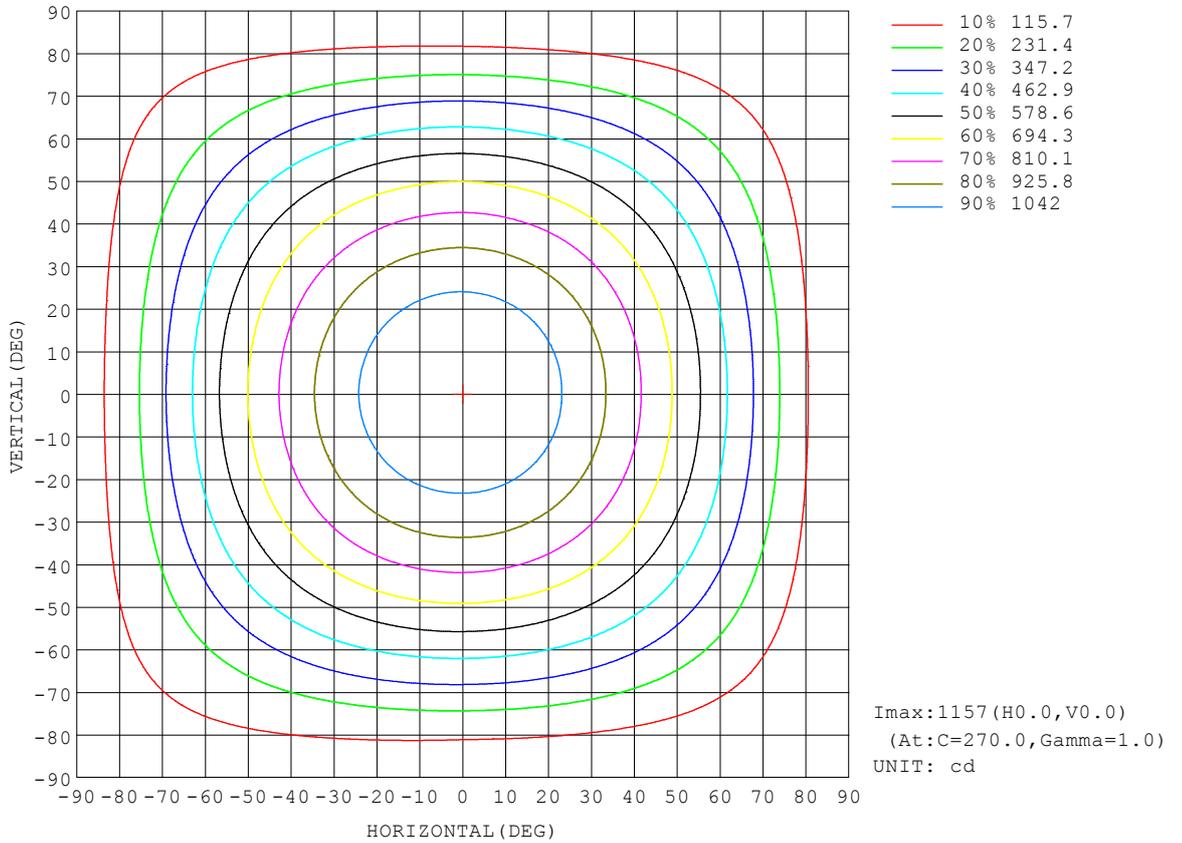
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	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:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

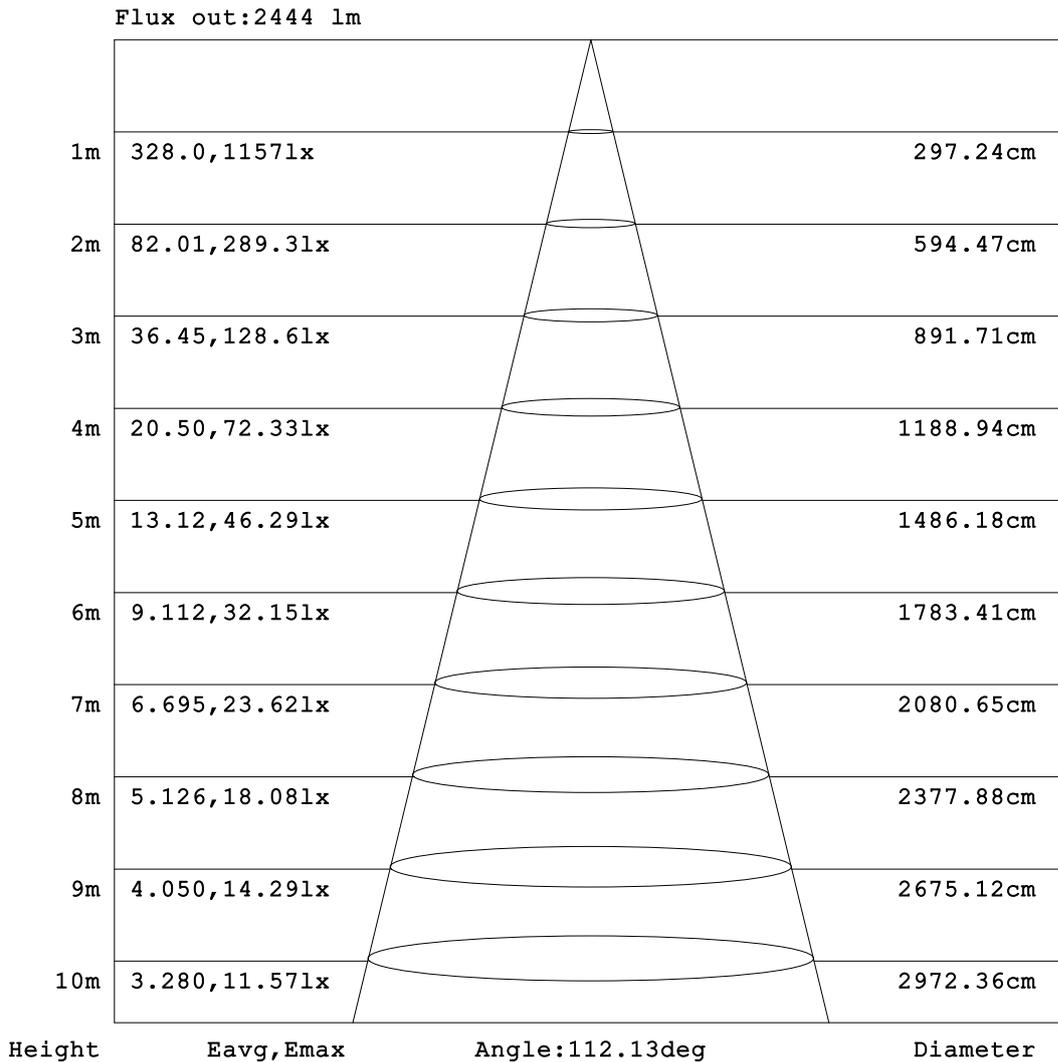


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:



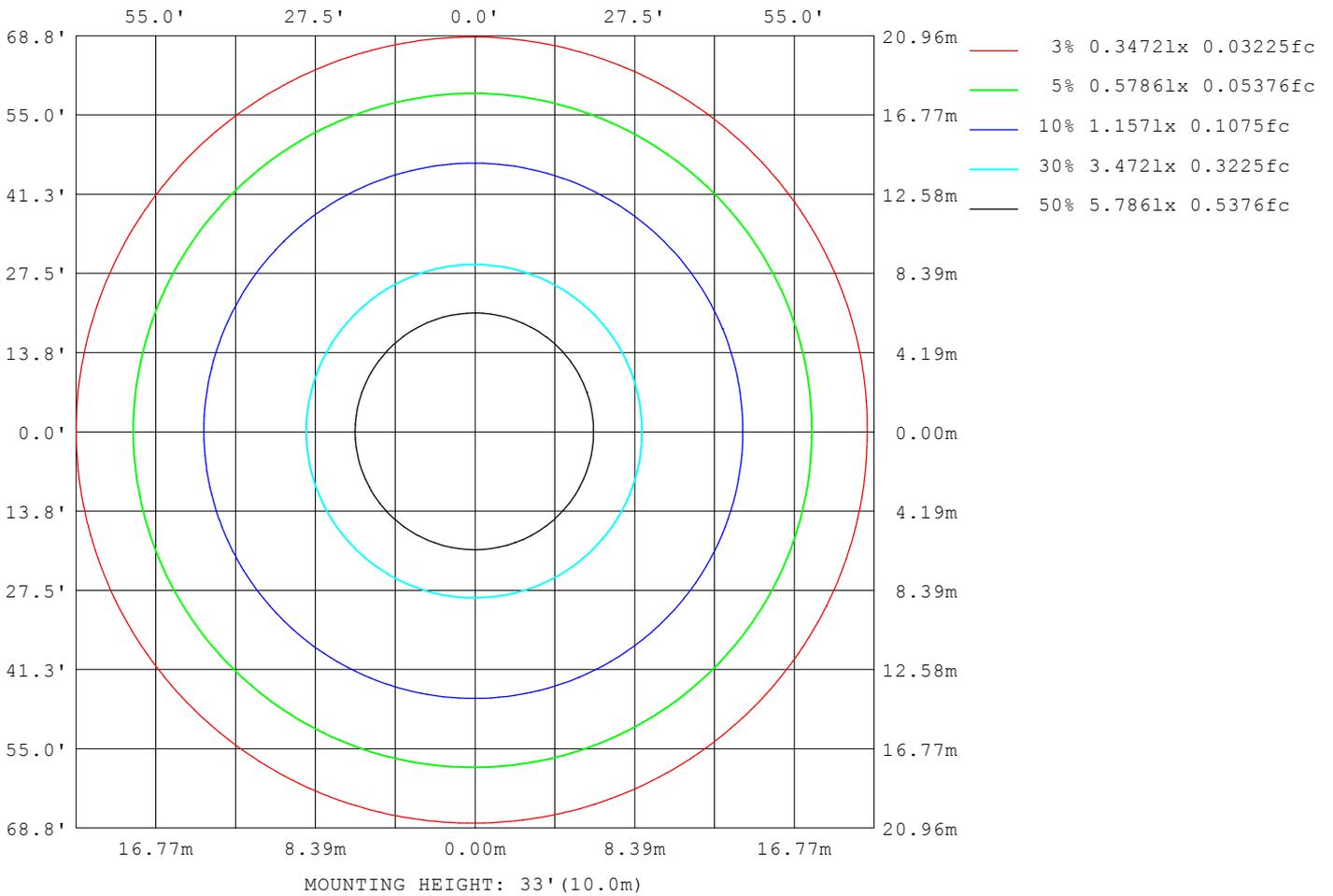
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.558	Shielding Angle:

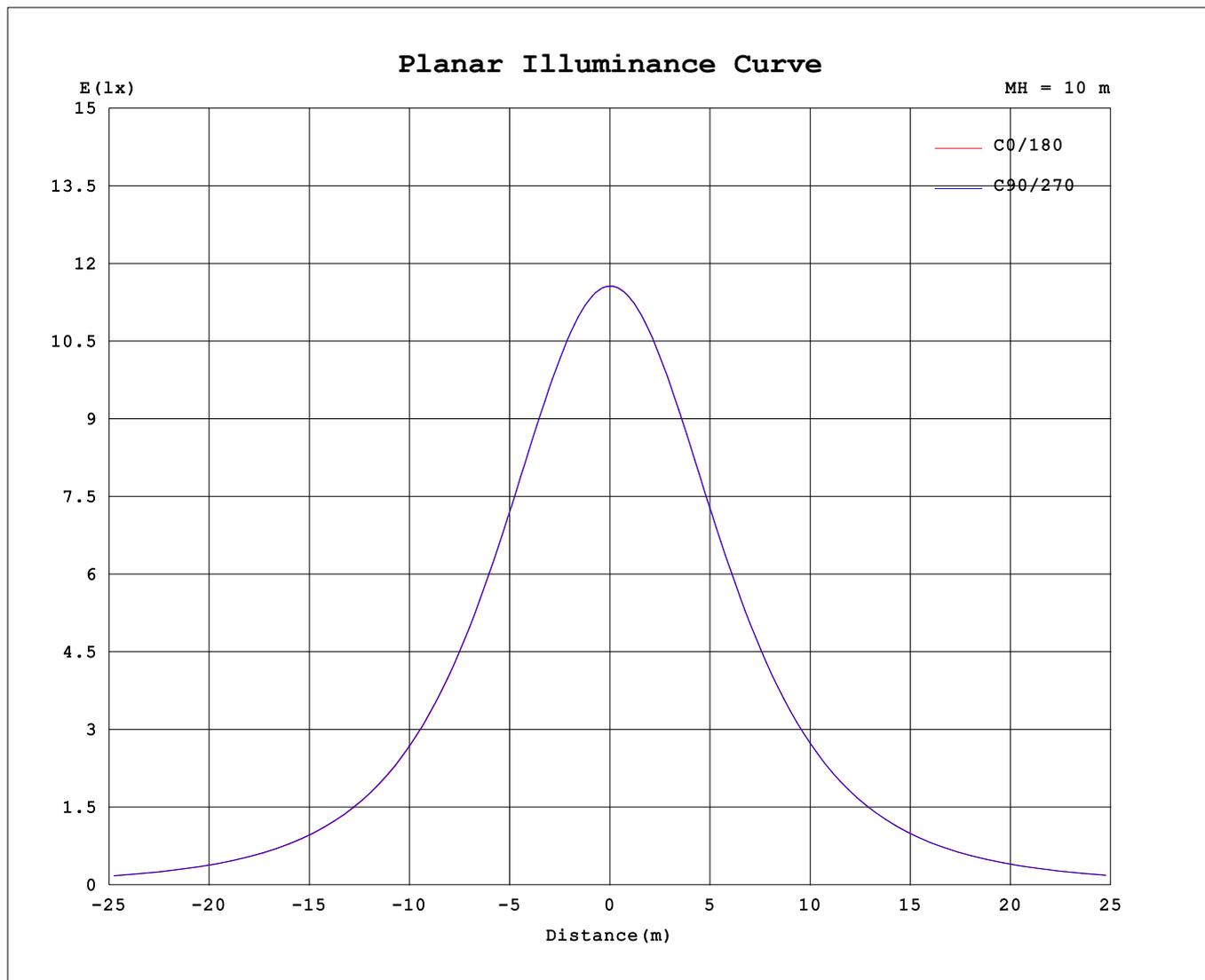
AvgL	cd/m2
L_0~180 (65) av	3992
L_0~180 (75) av	3550
L_0~180 (85) av	3334
L_90~270 (65) av	4007
L_90~270 (75) av	3571
L_90~270 (85) av	3147
L_45 (65) av	4009
L_45 (75) av	3577
L_45 (85) av	3283

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-10-29

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:2025-10-29

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:119.91V I:0.3296A P:39.078W PF:0.9889 Freq:59.98Hz Lamp Flux:3324.16x1 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	1157	1157	1157	1157															
5	1150	1151	1153	1152															
10	1133	1134	1138	1137															
15	1106	1107	1113	1112															
20	1069	1071	1078	1077															
25	1022	1025	1034	1033															
30	967	971	981	980															
35	904	908	920	918															
40	833	838	851	850															
45	757	762	777	774															
50	674	680	696	693															
55	586	592	609	606															
60	494	501	519	515															
65	400	407	425	421															
70	304	313	331	326															
75	211	220	238	232															
80	125	133	162	144															
85	48.4	69.7	93.6	64.3															
90	1.28	0.18	2.23	1.84															
95	0.28	0.31	0.33	0.29															
100	0.44	0.46	0.50	0.47															
105	0.60	0.67	0.70	0.68															
110	0.79	0.85	0.91	0.89															
115	0.97	1.04	1.12	1.09															
120	1.13	1.22	1.31	1.28															
125	1.31	1.38	1.49	1.47															
130	1.46	1.55	1.66	1.65															
135	1.61	1.68	1.82	1.81															
140	1.72	1.80	1.98	1.96															
145	1.81	1.88	2.13	2.12															
150	1.92	1.98	2.27	2.24															
155	2.05	2.12	2.39	2.38															
160	2.19	2.24	2.51	2.49															
165	2.32	2.36	2.62	2.60															
170	2.44	2.47	2.70	2.71															
175	2.54	2.57	2.73	2.76															
180	2.69	2.77	2.73	2.81															

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: