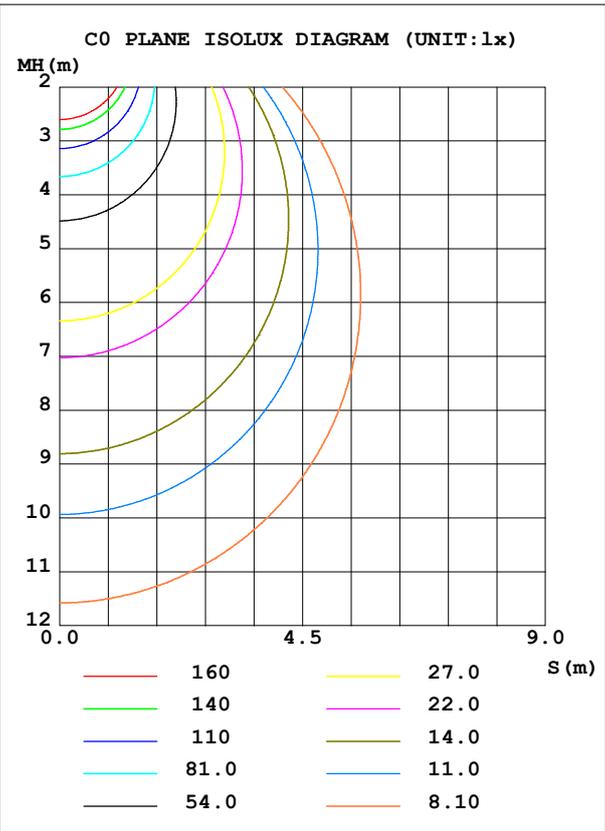
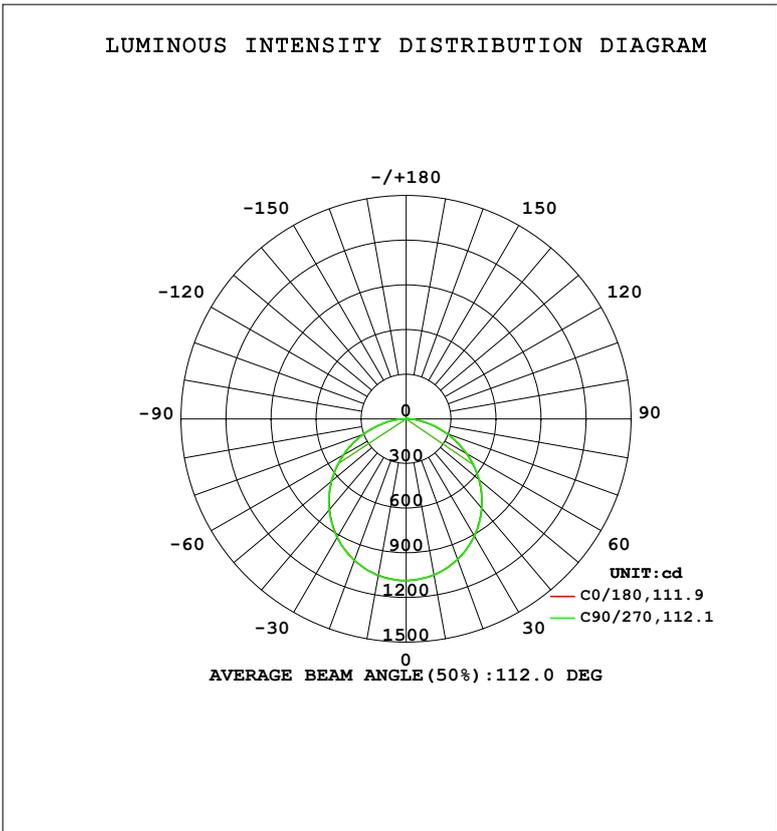


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL EGRF2440LAJUDSN_ 3000K		Imax (cd)	1086	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)	3102.3	$\eta$ UP, DN (C0-180)	0.1,49.2
NOMINAL FLUX (lm)	3102.25	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.1,50.6
LAMPS INSIDE	1	$\eta$ up (%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	$\eta$ 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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:

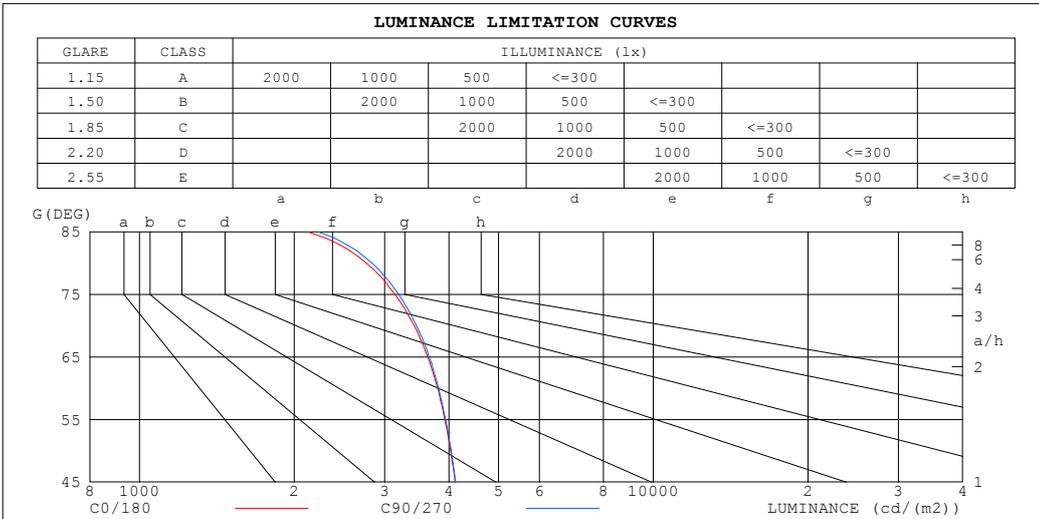
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1064	1064	1068	1068					0- 10	102.7	102.7	3.31,3.31
20	1004	1004	1011	1012					10- 20	293.8	396.5	12.8,12.8
30	908.6	909.3	918.7	920.2					20- 30	444.7	841.2	27.1,27.1
40	783.0	784.3	796.1	797.7					30- 40	535.3	1376	44.4,44.4
50	633.4	635.0	649.0	650.8					40- 50	554.4	1931	62.2,62.2
60	464.6	466.8	481.7	483.3					50- 60	500.2	2431	78.4,78.4
70	286.0	289.3	304.1	306.0					60- 70	381.5	2813	90.7,90.7
80	117.2	120.3	133.5	135.0					70- 80	221.1	3034	97.8,97.8
90	0.1826	0.1659	1.761	1.563					80- 90	61.20	3095	99.8,99.8
100	0.3697	0.4368	0.4535	0.4250					90-100	0.3394	3095	99.8,99.8
110	0.7067	0.7960	0.8402	0.8119					100-110	0.6382	3096	99.8,99.8
120	1.044	1.139	1.221	1.182					110-120	0.9621	3097	99.8,99.8
130	1.353	1.454	1.564	1.525					120-130	1.175	3098	99.9,99.9
140	1.591	1.680	1.851	1.812					130-140	1.244	3099	99.9,99.9
150	1.790	1.868	2.122	2.072					140-150	1.160	3100	99.9,99.9
160	2.060	2.117	2.354	2.321					150-160	0.9630	3101	100,100
170	2.281	2.327	2.530	2.520					160-170	0.6534	3102	100,100
180	2.536	2.619	2.569	2.630					170-180	0.2358	3102	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2126	2225
80	2761	2835
75	3141	3194
70	3422	3460
65	3638	3662
60	3803	3819
55	3930	3942
50	4032	4041
45	4115	4121

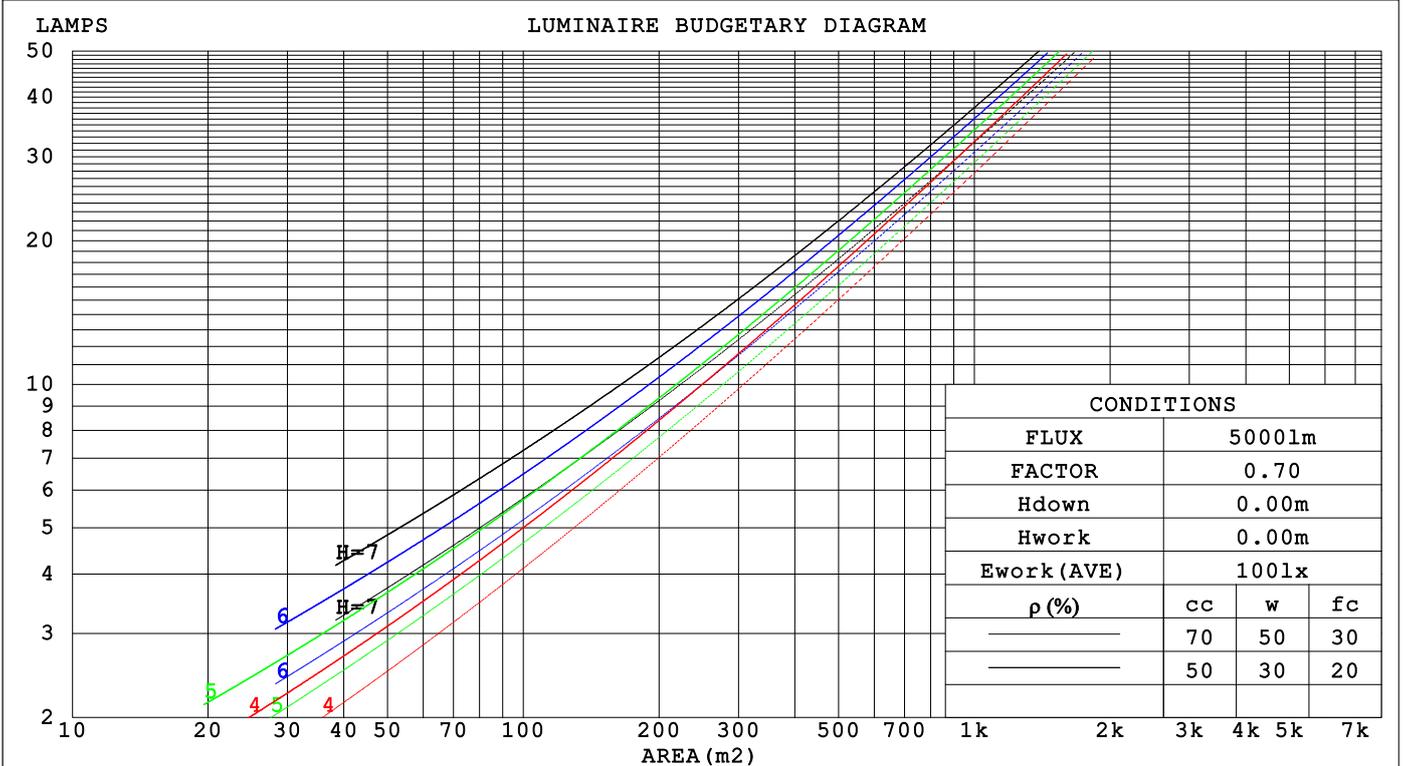
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-10-29

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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.96	1.01	.97	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.46	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz		
Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.311	.177	.056	.304	.173	.055	.291	.167	.053	.278	.161	.052	.267	.155	.050	
2.0	.293	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.210	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021	

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.166	.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	.151	.092	.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	.137	.077	.035	.118	.067	.031	.082	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.113	.062	.027	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.108	.058	.024	.074	.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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz										
Lamp Flux:3102.25x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.: 3000K				
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	17.6	19.1	17.8	19.3	19.5	17.6	19.1	17.8	19.3	19.5
3H	19.0	20.4	19.3	20.7	20.9	19.1	20.5	19.4	20.7	21.0
4H	19.6	21.0	19.9	21.2	21.5	19.7	21.0	20.0	21.3	21.5
6H	20.0	21.3	20.4	21.6	21.8	20.1	21.3	20.4	21.6	21.9
8H	20.1	21.4	20.5	21.6	21.9	20.2	21.4	20.5	21.7	22.0
12H	20.2	21.4	20.6	21.7	22.0	20.3	21.4	20.6	21.7	22.0
4H 2H	18.2	19.5	18.5	19.8	20.0	18.2	19.5	18.5	19.8	20.0
3H	19.8	21.0	20.2	21.3	21.6	19.8	21.0	20.2	21.3	21.6
4H	20.5	21.6	20.9	21.9	22.3	20.6	21.6	20.9	22.0	22.3
6H	21.1	22.0	21.5	22.4	22.7	21.1	22.1	21.5	22.4	22.8
8H	21.2	22.1	21.6	22.5	22.9	21.3	22.2	21.7	22.5	22.9
12H	21.3	22.1	21.7	22.5	22.9	21.4	22.2	21.8	22.6	23.0
8H 4H	20.8	21.7	21.2	22.0	22.4	20.8	21.7	21.2	22.1	22.5
6H	21.5	22.2	21.9	22.6	23.0	21.5	22.2	21.9	22.6	23.1
8H	21.7	22.4	22.2	22.8	23.2	21.8	22.4	22.2	22.8	23.3
12H	21.9	22.4	22.3	22.9	23.4	21.9	22.5	22.4	22.9	23.4
12H 4H	20.8	21.6	21.2	22.0	22.4	20.8	21.6	21.3	22.0	22.4
6H	21.5	22.2	22.0	22.6	23.0	21.6	22.2	22.0	22.6	23.1
8H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.9	23.3
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, 3102 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.9)  
 Area: 0.2444 m2

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:

UTILIZATION FACTORS TABLE

Test:U:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

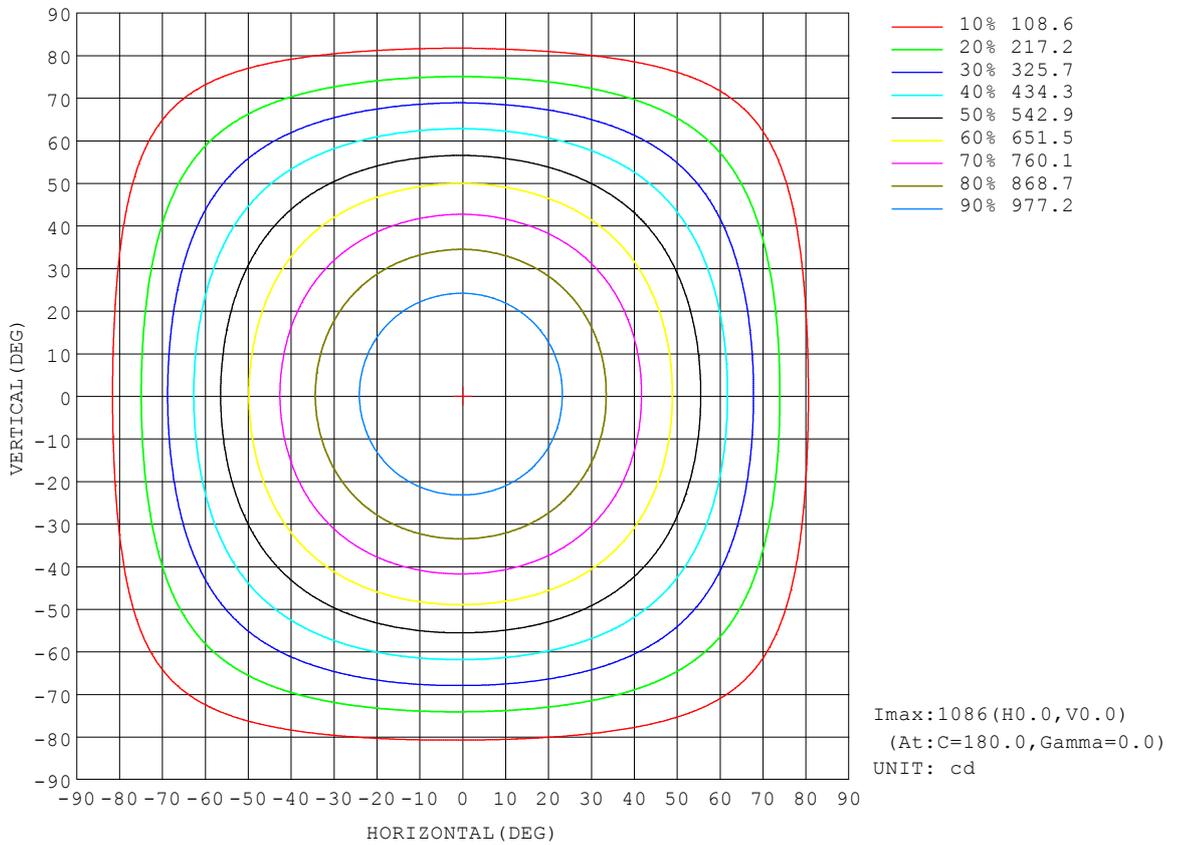
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	38	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	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  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-10-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

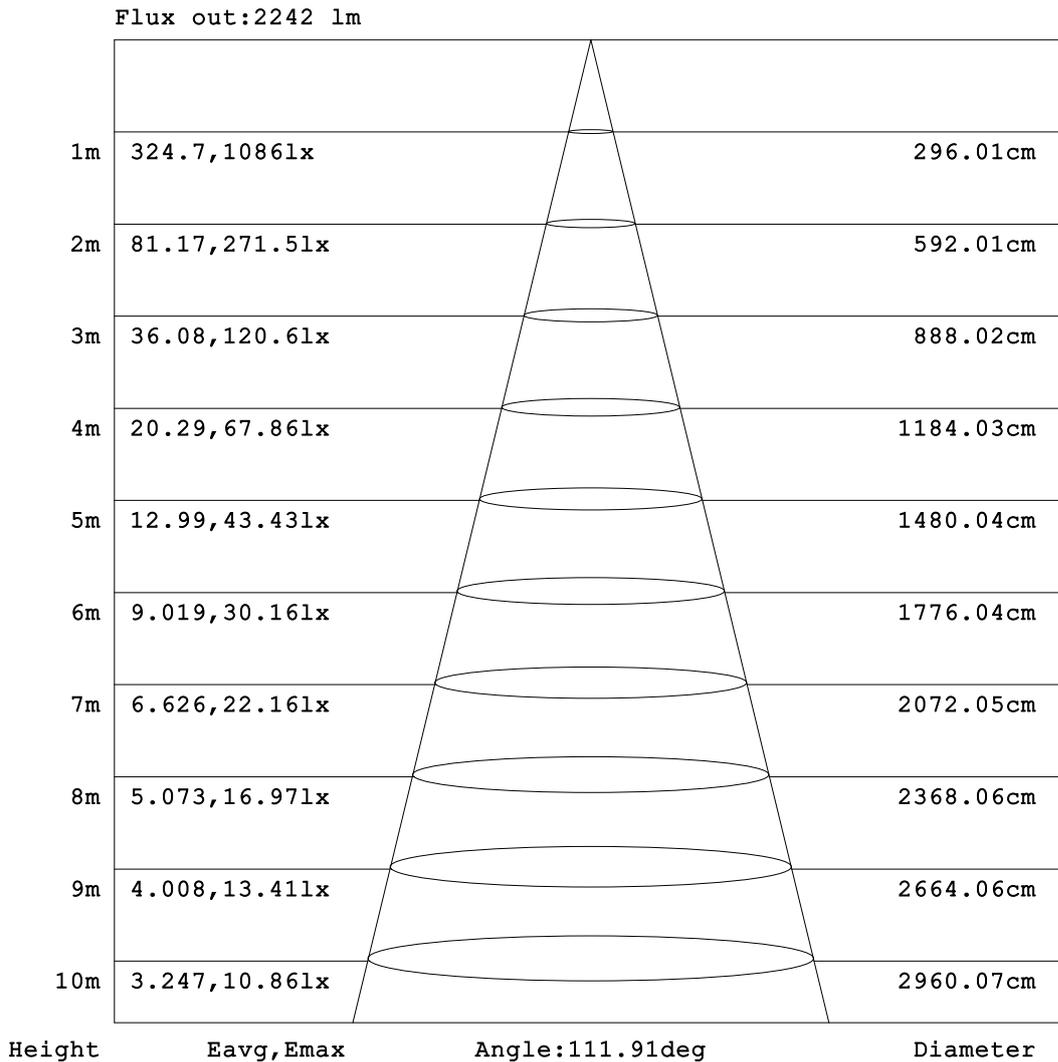


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-10-29

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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:



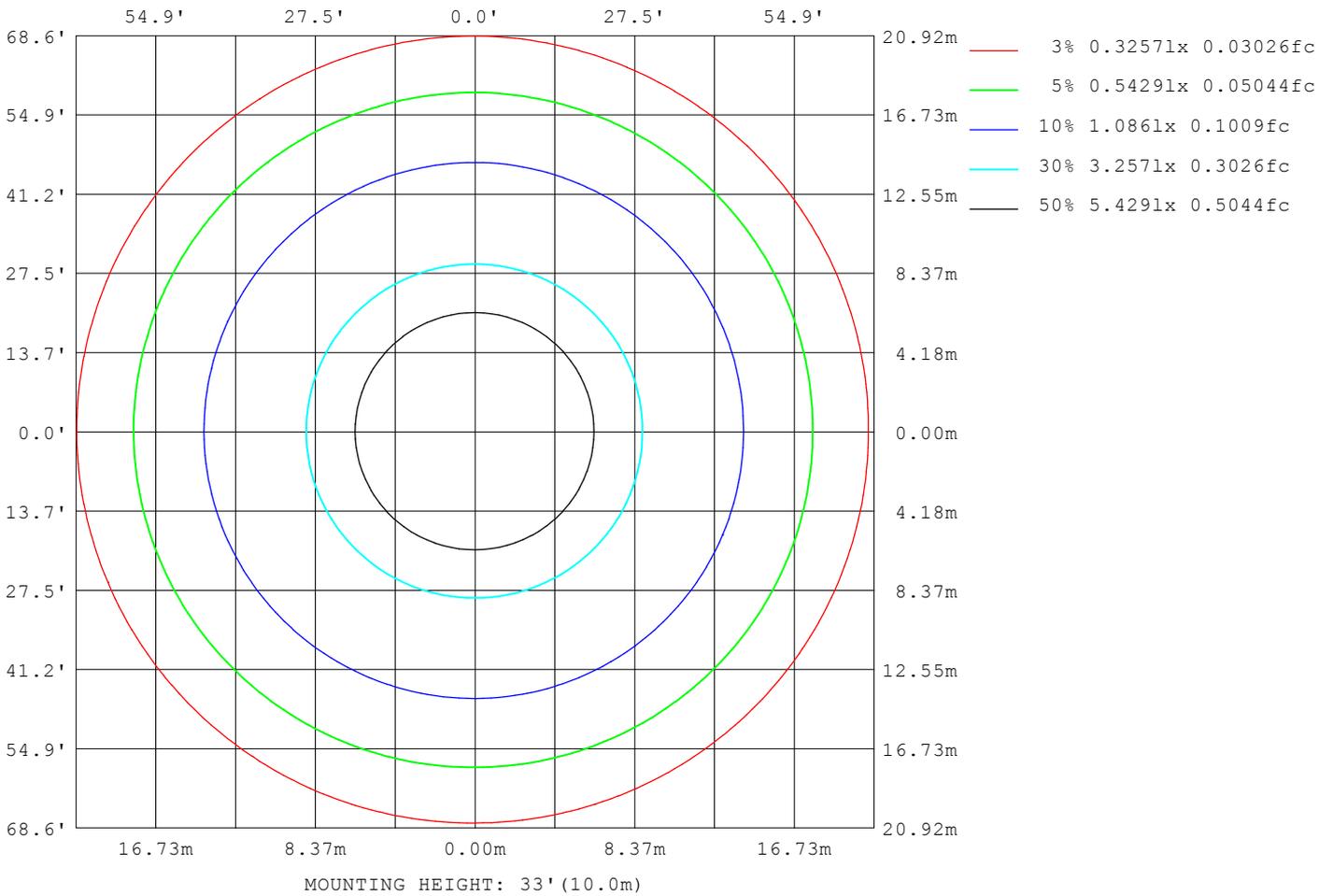
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

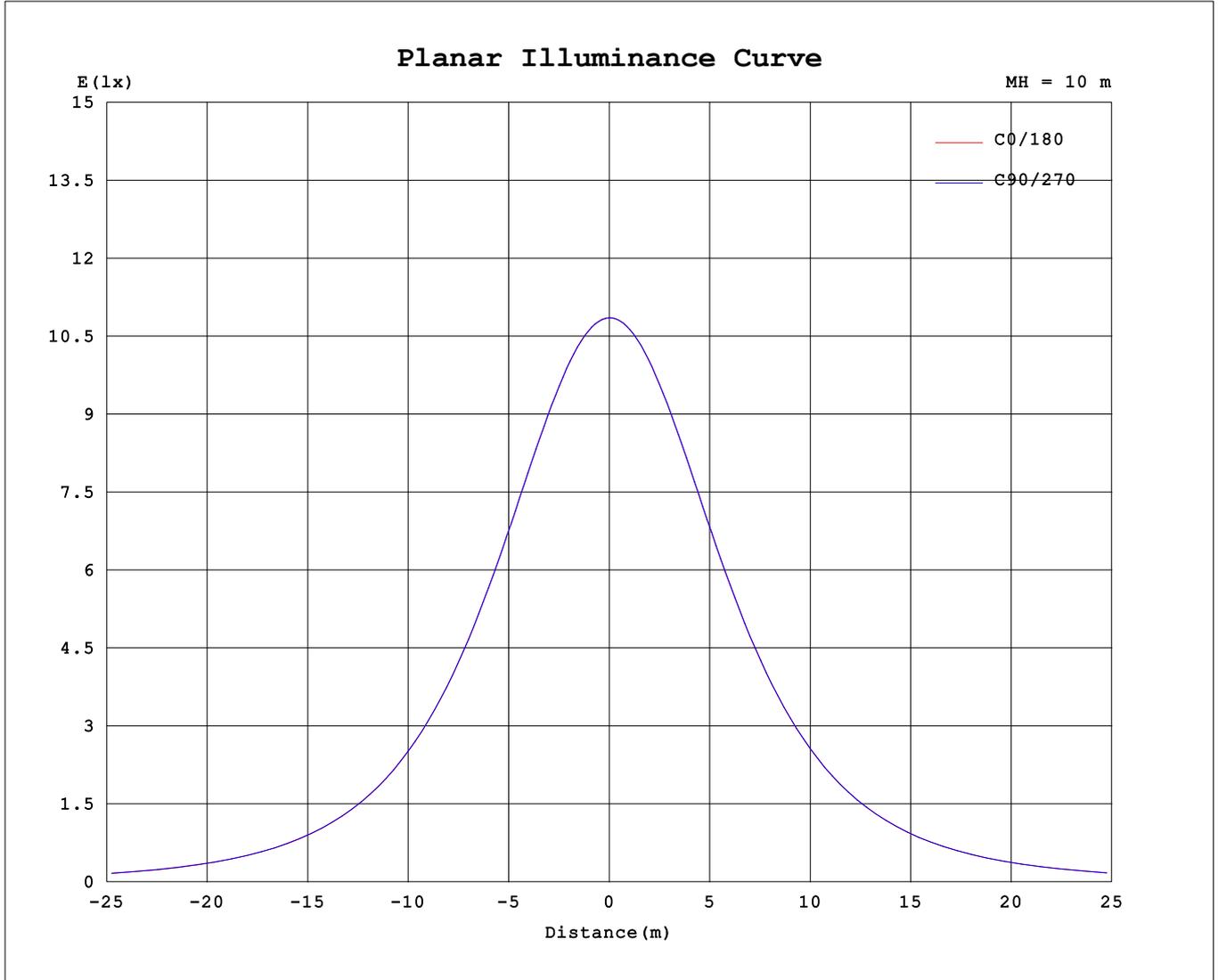
AvgL	cd/m2
L_0~180 (65) av	3724
L_0~180 (75) av	3279
L_0~180 (85) av	2466
L_90~270 (65) av	3744
L_90~270 (75) av	3320
L_90~270 (85) av	2534
L_45 (65) av	3742
L_45 (75) av	3313
L_45 (85) av	2530

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.93V I:0.3297A P:39.113W PF:0.9891 Freq:59.98Hz Lamp Flux:3102.25x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1086	1086	1086	1086															
5	1080	1080	1082	1082															
10	1064	1064	1068	1068															
15	1038	1038	1044	1044															
20	1004	1004	1011	1012															
25	960	961	969	970															
30	909	909	919	920															
35	849	850	861	862															
40	783	784	796	798															
45	711	712	725	727															
50	633	635	649	651															
55	551	553	567	569															
60	465	467	482	483															
65	376	378	393	395															
70	286	289	304	306															
75	199	202	216	218															
80	117	120	133	135															
85	45.3	47.4	59.8	60.5															
90	0.18	0.17	1.76	1.56															
95	0.22	0.28	0.30	0.25															
100	0.37	0.44	0.45	0.43															
105	0.54	0.62	0.66	0.61															
110	0.71	0.80	0.84	0.81															
115	0.88	0.97	1.04	1.01															
120	1.04	1.14	1.22	1.18															
125	1.20	1.29	1.40	1.35															
130	1.35	1.45	1.56	1.52															
135	1.48	1.58	1.72	1.68															
140	1.59	1.68	1.85	1.81															
145	1.70	1.78	1.99	1.95															
150	1.79	1.87	2.12	2.07															
155	1.92	2.00	2.23	2.19															
160	2.06	2.12	2.35	2.32															
165	2.18	2.22	2.44	2.42															
170	2.28	2.33	2.53	2.52															
175	2.39	2.43	2.57	2.59															
180	2.54	2.62	2.57	2.63															

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: