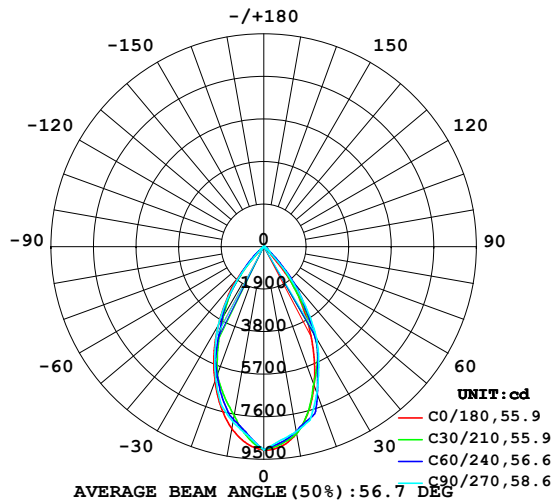


LUMINAIRE PHOTOMETRIC TEST REPORT

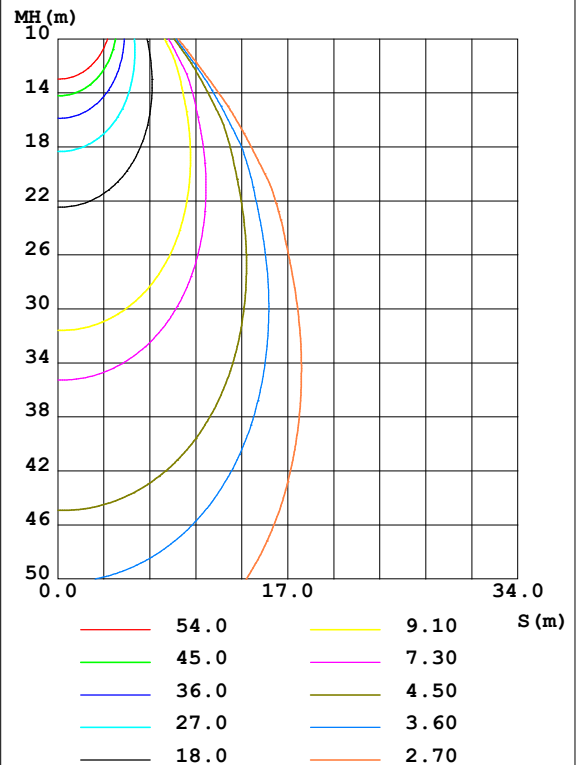
Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.68 lm/W			
MODEL		I _{max} (cd)	9081	S/MH (C0/180)	0.84
NOMINAL POWER(W)		LOR(%)	100.0	S/MH (C90/270)	0.83
RATED VOLTAGE(V)	220.0	TOTAL FLUX (lm)	7674.3	η UP,DN (C0-180)	0.0,52.0
NOMINAL FLUX(lm)	7674.26	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,48.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	8471	8389	8390	8040	8249	7732	7945	8095	0- 10	810.2	810.2	10.6,10.6
20	6579	7149	6943	6483	6387	5961	6283	6621	10- 20	2069	2879	37.5,37.5
30	3961	4295	4733	4097	4081	3715	4090	3923	20- 30	2415	5294	69,69
40	1347	1686	1838	1830	1722	1605	1532	1493	30- 40	1760	7054	91.9,91.9
50	112.1	340.0	271.7	424.8	104.3	335.4	168.5	268.8	40- 50	530.4	7584	98.8,98.8
60	10.28	58.67	33.36	59.23	0	30.78	0.0001	30.06	50- 60	81.58	7666	99.9,99.9
70	0	0	11.12	0	0	0	0	0	60- 70	7.906	7674	100,100
80	0	0	0	0	0	0	0	0	70- 80	0.5244	7674	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	7674	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7447.9 lm

%lum = 97.1%

%lamp = 97.1%

Conical surface Flux(120deg): 7665.8 lm

%lum = 99.9%

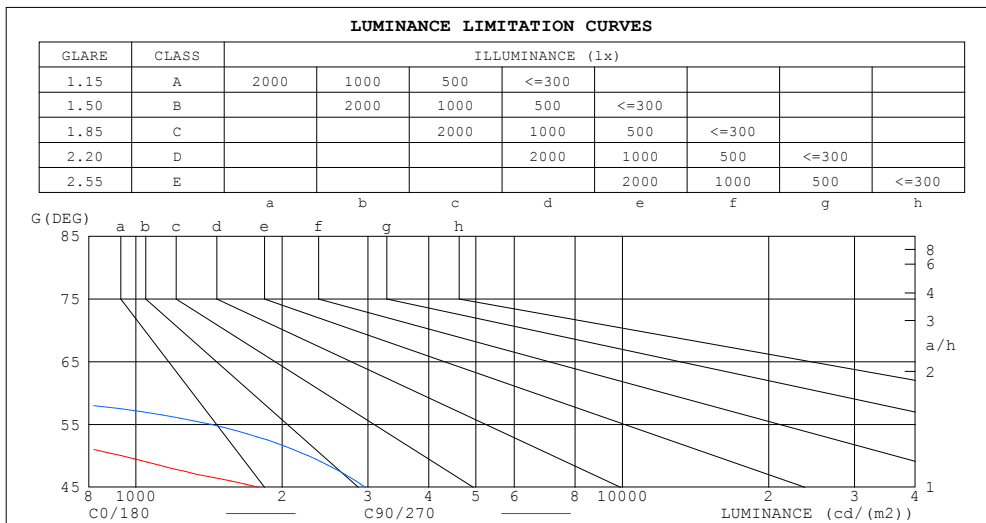
%lamp = 99.9%

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:14 February 2025

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	174
65	0	280
60	110	357
55	422	1424
50	933	2261
45	1788	2963

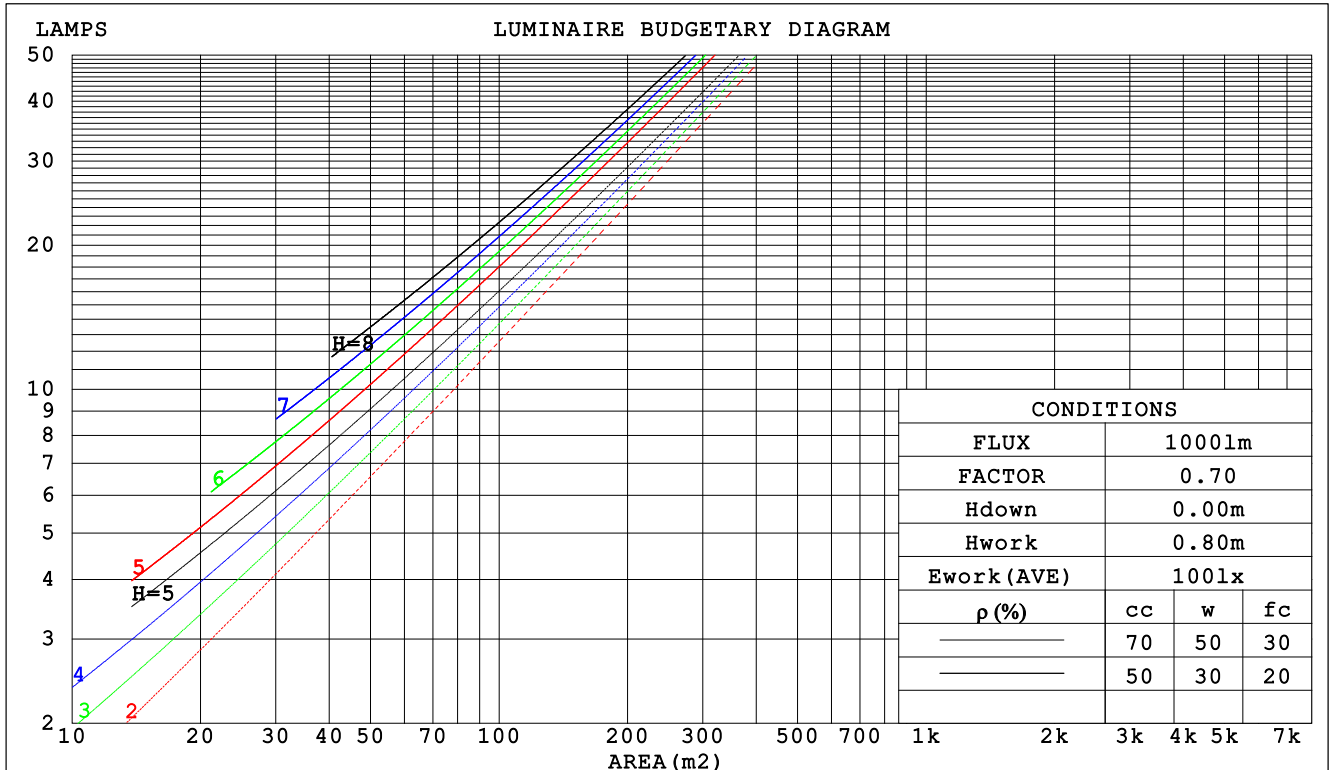
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	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	1.00
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.92	.95	.93	.90	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.86	.92	.88	.85	.90	.86	.84	.87	.85	.82	.81
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.81	.77	.82	.79	.77	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.70	.67	.65
7.0	.74	.68	.63	.73	.67	.63	.72	.67	.63	.71	.66	.63	.69	.65	.62	.61
8.0	.69	.63	.59	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.61	.58	.57
9.0	.65	.59	.55	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.53
10.0	.62	.56	.52	.61	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.52	.50



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	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	.178	.101	.032	.171	.098	.031	.159	.091	.029	.147	.085	.027	.136	.079	.025		
2.0	.171	.094	.029	.166	.091	.028	.155	.086	.027	.145	.081	.025	.136	.077	.024		
3.0	.164	.087	.026	.159	.085	.026	.150	.081	.025	.141	.077	.024	.134	.074	.023		
4.0	.156	.081	.024	.152	.080	.024	.144	.076	.023	.137	.074	.022	.130	.071	.022		
5.0	.149	.076	.022	.146	.075	.022	.139	.072	.021	.132	.070	.021	.126	.068	.020		
6.0	.143	.072	.020	.139	.070	.020	.133	.068	.020	.128	.066	.020	.123	.065	.019		
7.0	.137	.067	.019	.134	.067	.019	.128	.065	.019	.123	.063	.018	.119	.062	.018		
8.0	.131	.064	.018	.128	.063	.018	.123	.062	.018	.119	.060	.017	.115	.059	.017		
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.058	.016	.111	.056	.016		
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.111	.055	.016	.107	.054	.015		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.123	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm										
NAME: GLM-PLS128CR1500 (3030CW) 4000K					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: EVERFINE					SUR.:			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	14.0	14.9	14.2	15.1	15.3	15.3	16.3	15.6	16.5	16.6
3H	13.8	14.7	14.0	14.9	15.1	15.2	16.1	15.4	16.3	16.5
4H	13.7	14.5	14.0	14.8	15.0	15.1	15.9	15.4	16.1	16.4
6H	13.6	14.4	13.9	14.6	14.9	15.0	15.8	15.3	16.0	16.3
8H	13.6	14.3	13.9	14.6	14.8	14.9	15.7	15.3	16.0	16.2
12H	13.5	14.2	13.8	14.5	14.8	14.9	15.6	15.2	15.9	16.2
4H 2H	13.7	14.6	14.0	14.8	15.0	15.1	15.9	15.4	16.1	16.4
3H	13.5	14.3	13.9	14.5	14.8	14.9	15.6	15.2	15.9	16.2
4H	13.4	14.1	13.8	14.4	14.7	14.8	15.5	15.2	15.8	16.1
6H	13.3	13.9	13.7	14.2	14.6	14.7	15.3	15.1	15.6	16.0
8H	13.3	13.8	13.7	14.2	14.5	14.7	15.2	15.1	15.6	15.9
12H	13.2	13.7	13.7	14.1	14.5	14.6	15.1	15.0	15.5	15.9
8H 4H	13.3	13.8	13.7	14.2	14.5	14.7	15.2	15.1	15.6	15.9
6H	13.2	13.6	13.6	14.0	14.4	14.6	15.0	15.0	15.4	15.8
8H	13.1	13.5	13.6	13.9	14.4	14.5	14.9	15.0	15.3	15.8
12H	13.1	13.4	13.6	13.9	14.3	14.5	14.8	14.9	15.2	15.7
12H 4H	13.2	13.7	13.7	14.1	14.5	14.6	15.1	15.0	15.5	15.9
6H	13.1	13.5	13.6	13.9	14.4	14.5	14.9	15.0	15.3	15.8
8H	13.1	13.4	13.6	13.9	14.3	14.5	14.8	14.9	15.2	15.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / -18.2					+ 2.6 / -12.2				
1.5H	+ 5.2 / -12.5					+ 5.1 / - 9.4				
2.0H	+ 5.1 / -16.7					+ 4.1 / -13.2				

CIE Pub.117, 7674 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.1$)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

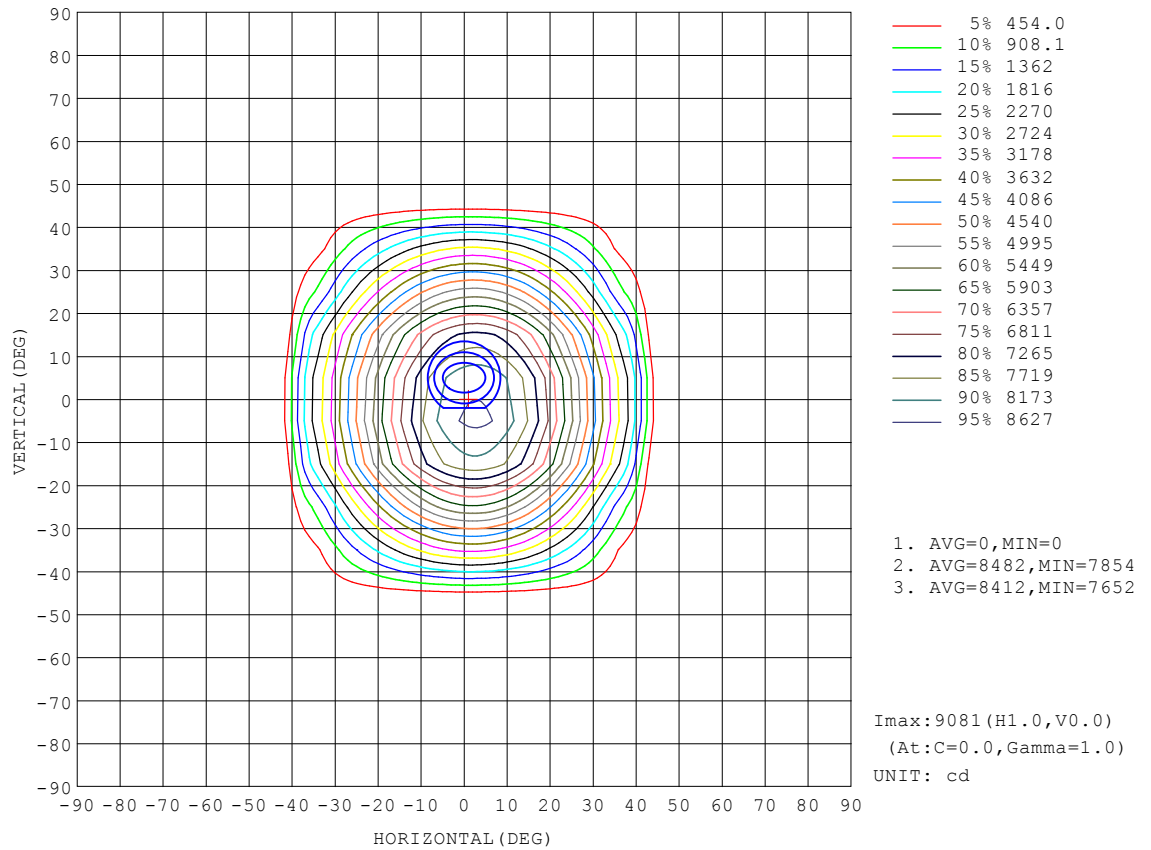
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:14 February 2025

$V(B)$ Range:-75 - 75DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

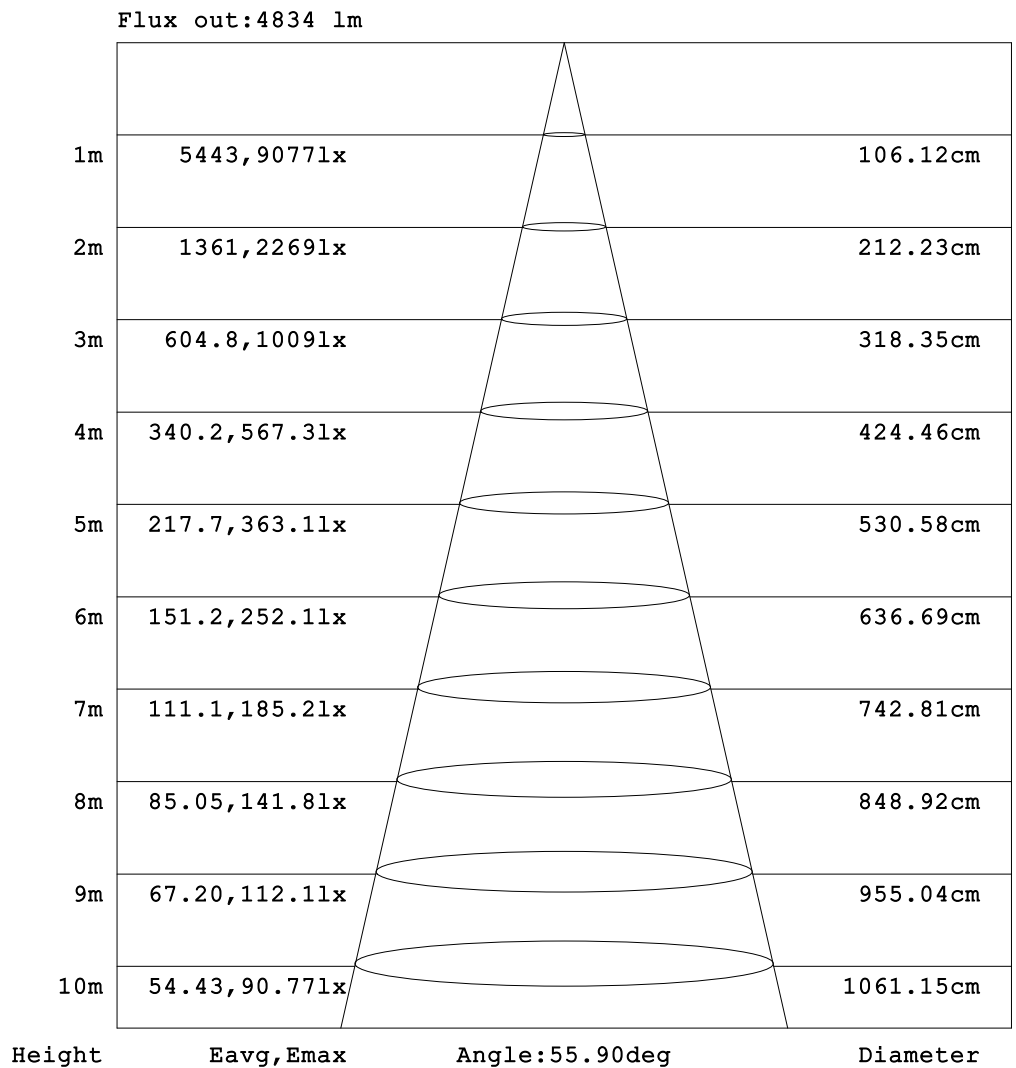


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



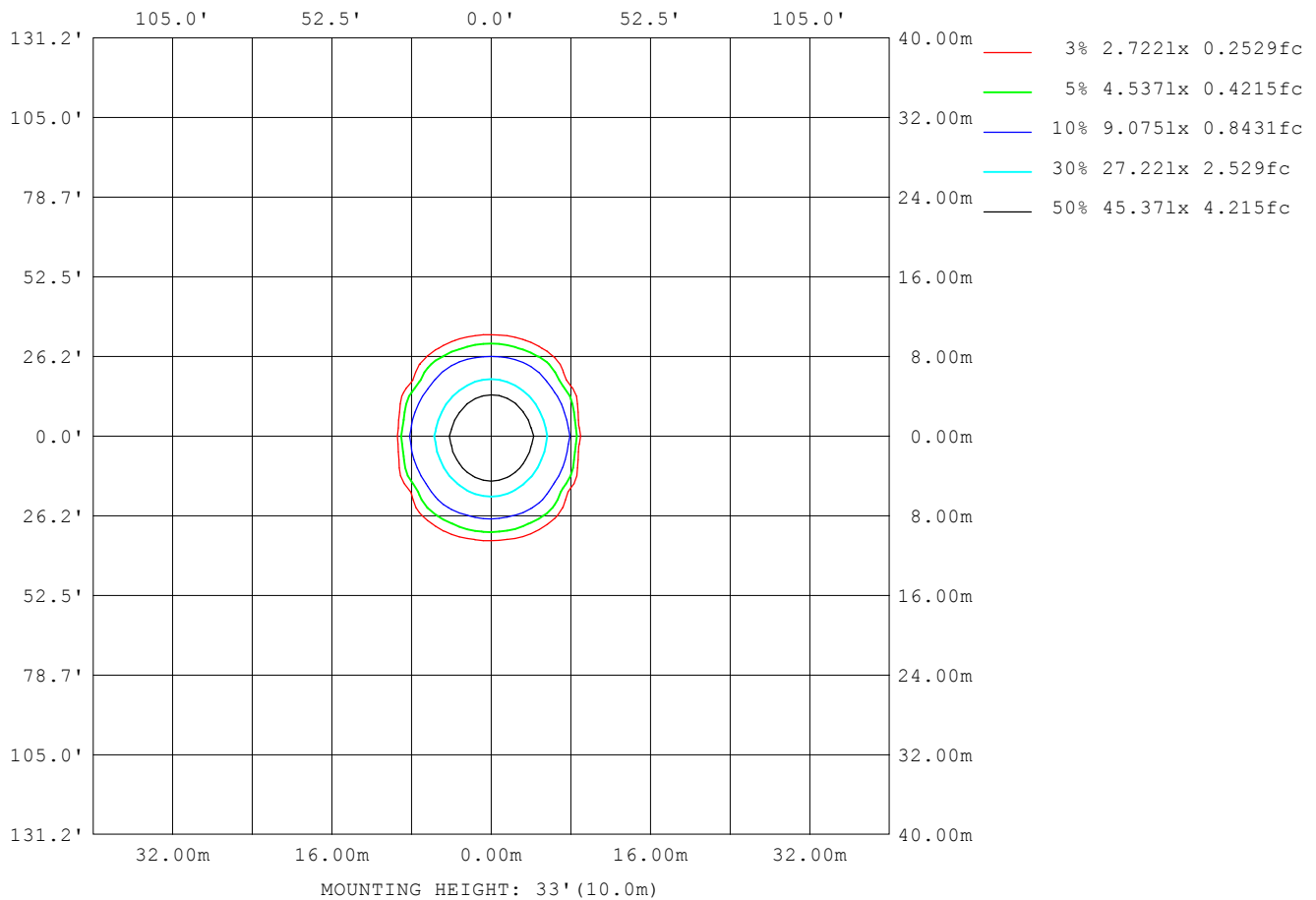
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.82V I:0.2414A P:51.615W PF:0.9728 Freq:49.99Hz Lamp Flux:7674.26x1 lm		
NAME: GLM-PLS128CR1500 (3030CW) 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

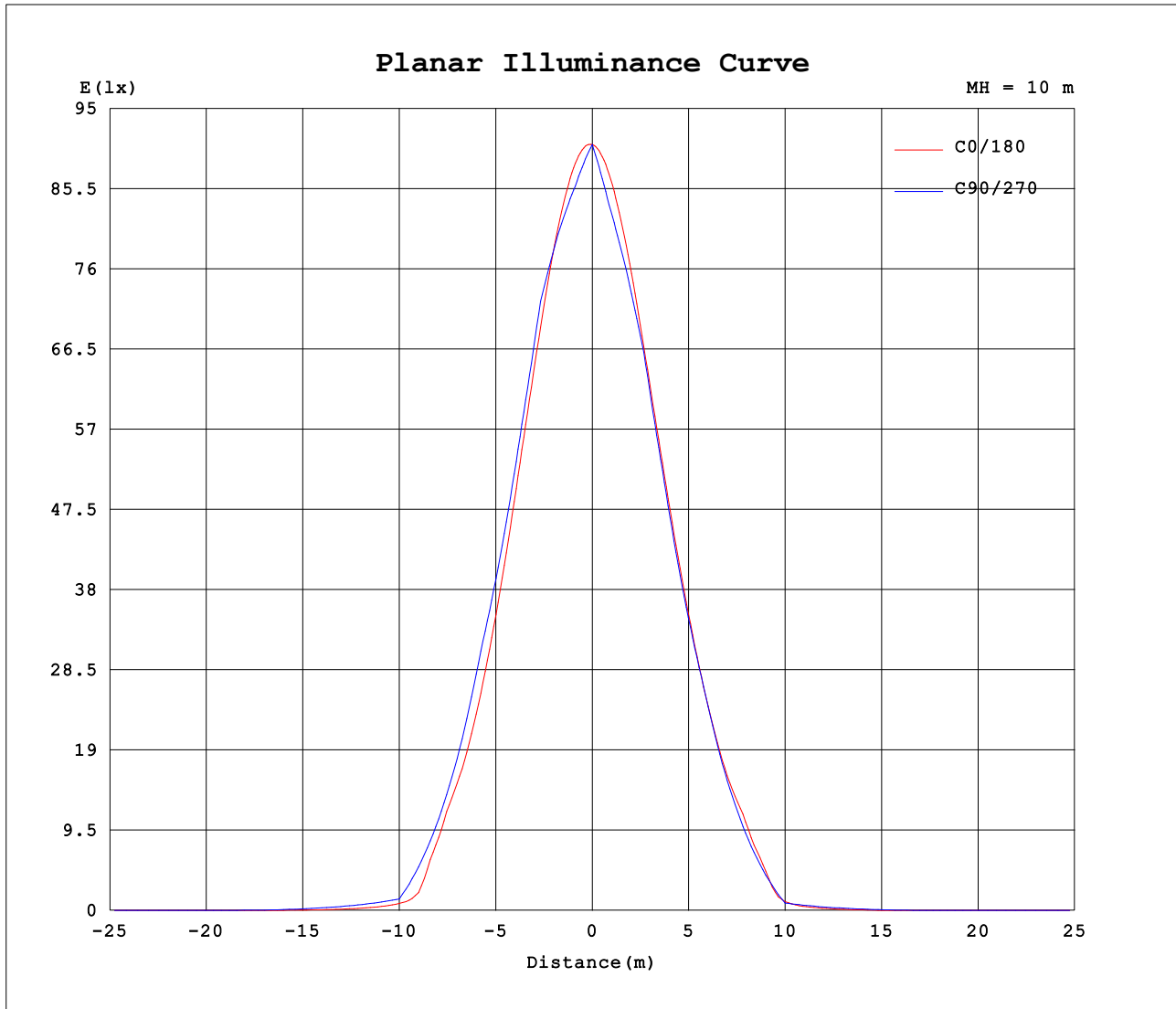
AvgL	cd/m2
L_0~180 (65) av	0
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	140
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	167
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:14 February 2025

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

