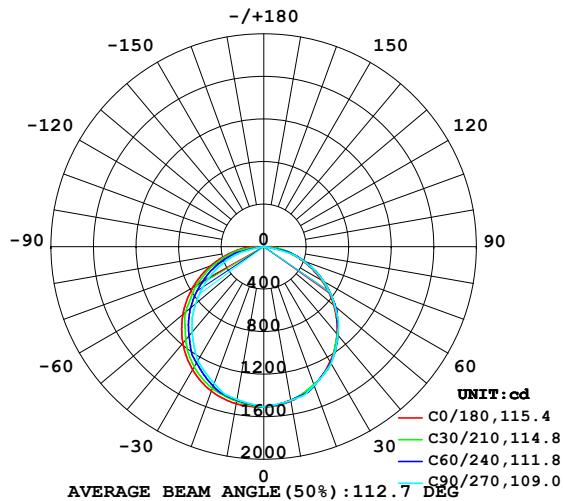


LUMINAIRE PHOTOMETRIC TEST REPORT

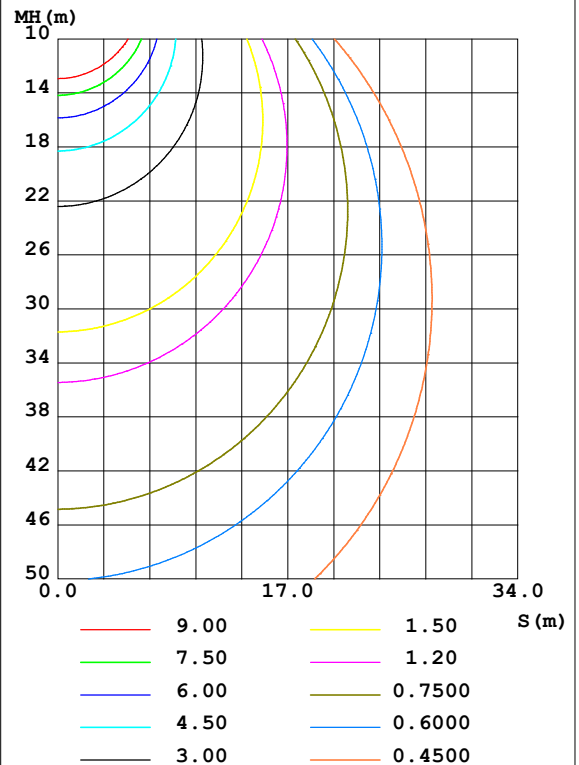
Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.43 lm/W			
MODEL		I _{max} (cd)	1508	S/MH (C0/180)	1.32
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	4299.6	η UP, DN (C0-180)	0.0, 50.6
NOMINAL FLUX (lm)	4299.56	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.35

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: 28 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=0.9812]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1474	1465	1468	1477	1500	1470	1458	1458	0- 10	141.7	141.7	3.3,3.3
20	1386	1397	1388	1426	1445	1412	1369	1384	10- 20	406.7	548.4	12.8,12.8
30	1249	1251	1268	1304	1338	1284	1240	1232	20- 30	616.4	1165	27.1,27.1
40	1072	1086	1083	1160	1185	1133	1049	1061	30- 40	744.3	1909	44.4,44.4
50	861.2	871.6	876.6	961.4	992.9	930.8	836.6	841.5	40- 50	773.6	2683	62.4,62.4
60	626.2	644.8	647.5	740.0	772.7	707.2	603.8	611.3	50- 60	702.4	3385	78.7,78.7
70	384.6	413.1	402.3	501.8	532.1	469.4	360.0	379.0	60- 70	545.0	3930	91.4,91.4
80	174.4	164.5	0	227.1	296.8	203.5	0	140.2	70- 80	319.6	4250	98.8,98.8
90	53.11	0	0	0	56.20	0	0	0	80- 90	49.85	4300	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): 2298.4 lm

%lum = 53.5%

%lamp = 53.5%

Conical surface Flux(120deg): 3385.1 lm

%lum = 78.7%

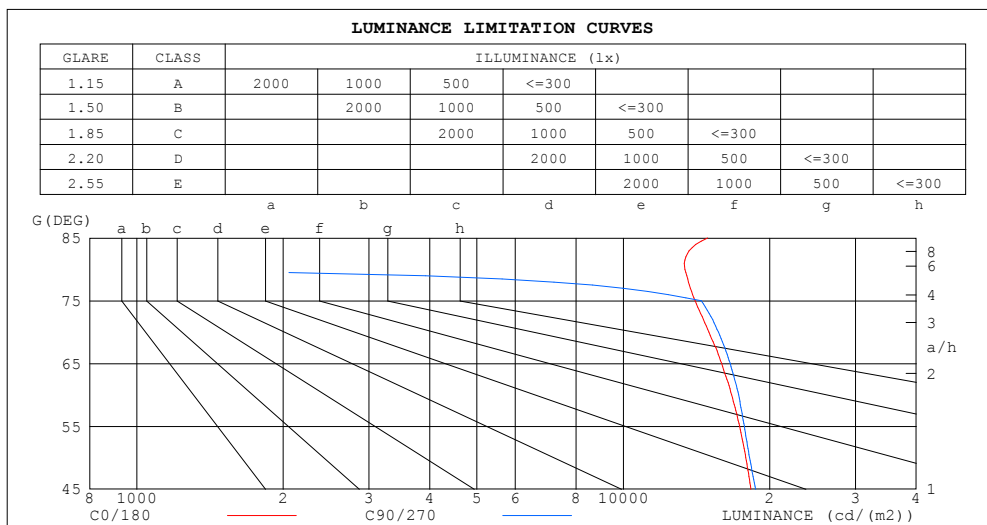
%lamp = 78.7%

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14899	0
80	13392	0
75	14050	14462
70	14993	15684
65	15926	16588
60	16698	17266
55	17337	17731
50	17863	18184
45	18298	18700

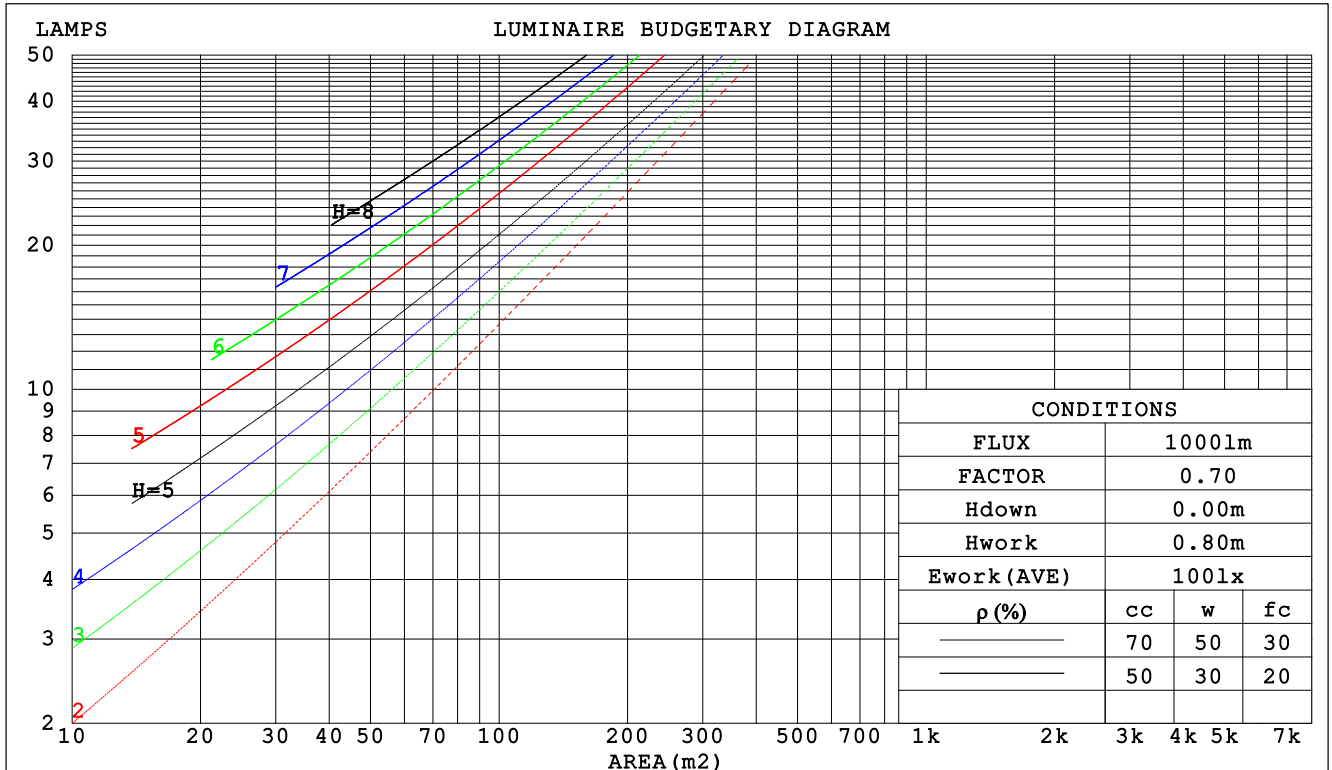
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 February 2025

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=0.9812]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.04	.00	.96	1.02	.98	.94	.98	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
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	.30
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



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

WEC AND CCEC

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	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	.305	.174	.055	.298	.170	.054	.285	.164	.052	.273	.157	.051	.262	.152	.049		
2.0	.291	.159	.049	.284	.157	.048	.273	.152	.047	.262	.147	.046	.252	.143	.045		
3.0	.270	.144	.043	.264	.142	.043	.254	.138	.042	.244	.134	.041	.236	.130	.040		
4.0	.249	.130	.038	.244	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.211	.111	.033	.203	.109	.033		
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.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	.172	.087	.025	.167	.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		

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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm										
NAME: GLM-PLS128C600(4000K)					TYPE:LED			WEIGHT:		
SPEC.:Power:35.1W Current:300mA Voltage:107V					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	22.7	24.3	23.0	24.5	24.7	22.8	24.3	23.1	24.5	24.7
3H	24.2	25.7	24.5	25.9	26.1	24.3	25.7	24.6	26.0	26.2
4H	24.9	26.2	25.2	26.5	26.7	24.9	26.3	25.2	26.5	26.8
6H	25.3	26.6	25.7	26.9	27.2	25.0	26.2	25.3	26.5	26.8
8H	25.5	26.7	25.8	27.0	27.3	24.9	26.1	25.3	26.4	26.7
12H	25.6	26.8	25.9	27.1	27.4	24.9	26.0	25.2	26.3	26.6
4H 2H	23.4	24.7	23.7	25.0	25.2	23.4	24.8	23.7	25.0	25.3
3H	25.1	26.3	25.4	26.6	26.9	25.1	26.3	25.5	26.6	26.9
4H	25.8	26.9	26.2	27.2	27.6	25.9	26.9	26.2	27.3	27.6
6H	26.5	27.4	26.9	27.8	28.1	26.0	26.9	26.4	27.3	27.6
8H	26.7	27.5	27.1	27.9	28.3	25.9	26.8	26.3	27.2	27.6
12H	26.8	27.6	27.2	28.0	28.4	25.9	26.7	26.3	27.1	27.5
8H 4H	26.2	27.0	26.6	27.4	27.8	26.2	27.0	26.6	27.4	27.8
6H	27.0	27.7	27.4	28.1	28.5	26.3	27.1	26.8	27.5	27.9
8H	27.3	27.9	27.7	28.3	28.8	26.3	26.9	26.7	27.4	27.8
12H	27.5	28.0	28.0	28.5	29.0	26.2	26.8	26.7	27.2	27.7
12H 4H	26.1	26.9	26.6	27.3	27.7	26.2	27.0	26.6	27.4	27.8
6H	27.0	27.6	27.4	28.0	28.5	26.4	27.0	26.8	27.4	27.9
8H	27.3	27.8	27.8	28.3	28.8	26.3	26.9	26.8	27.3	27.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 4300 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.1$)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600(4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

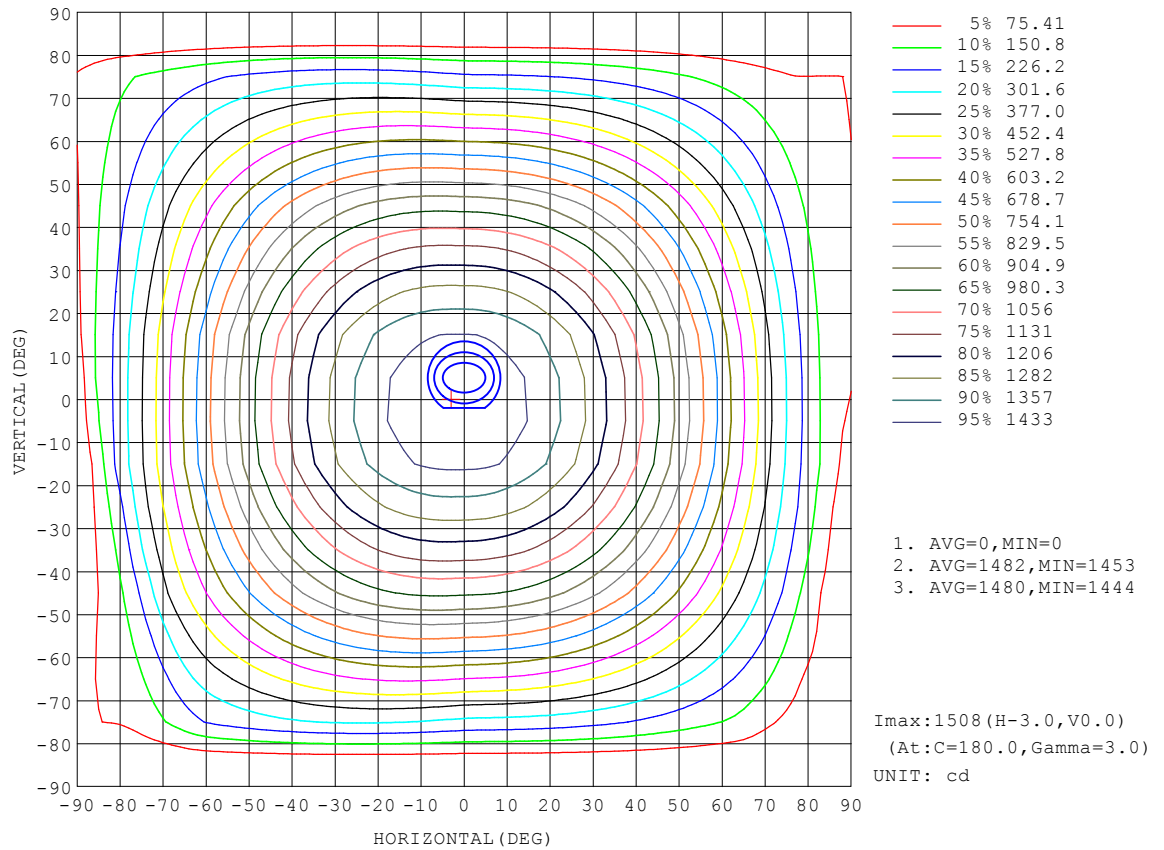
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	56	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	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		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:28 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=0.9812]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

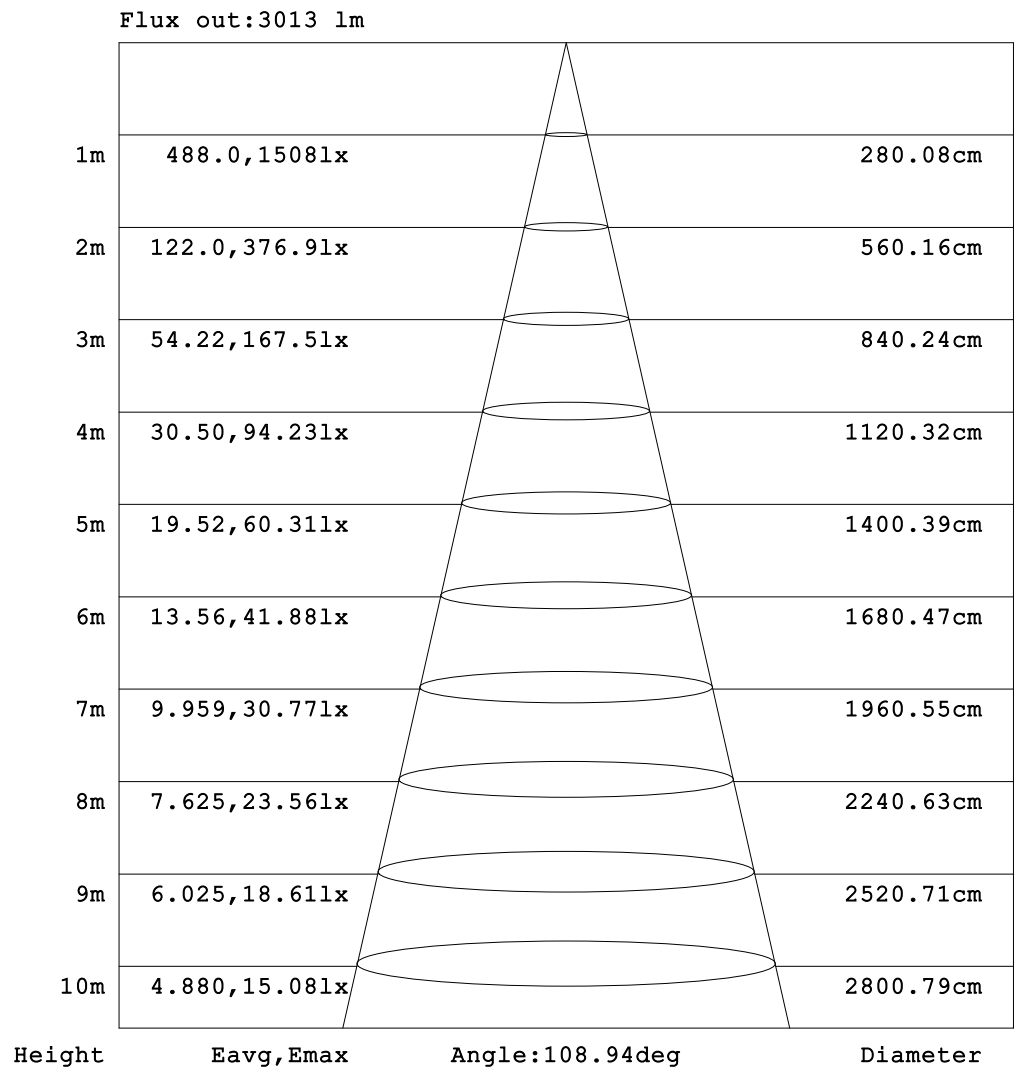


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 February 2025

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=0.9812]
Remarks:

AAI Figure

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



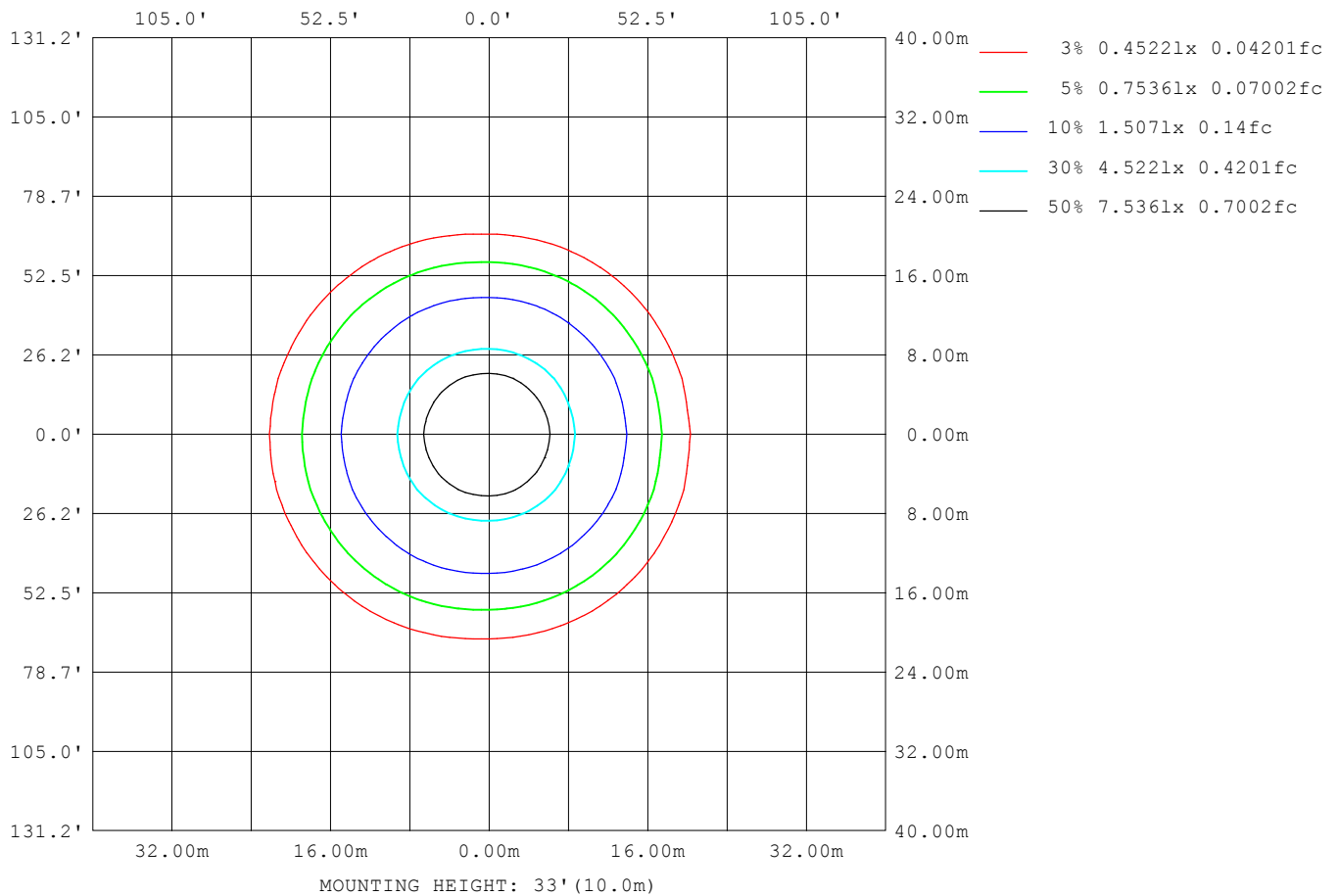
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

ISOLUX DIAGRAM

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	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:28 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=0.9812]
Remarks:

LED Avg.L Report

Test:U:220.44V I:0.1616A P:35.119W PF:0.9522 Freq:49.99Hz Lamp Flux:4299.56x1 lm		
NAME: GLM-PLS128C600 (4000K)	TYPE:LED	WEIGHT:
SPEC.:Power:35.1W Current:300mA Voltage:107V	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

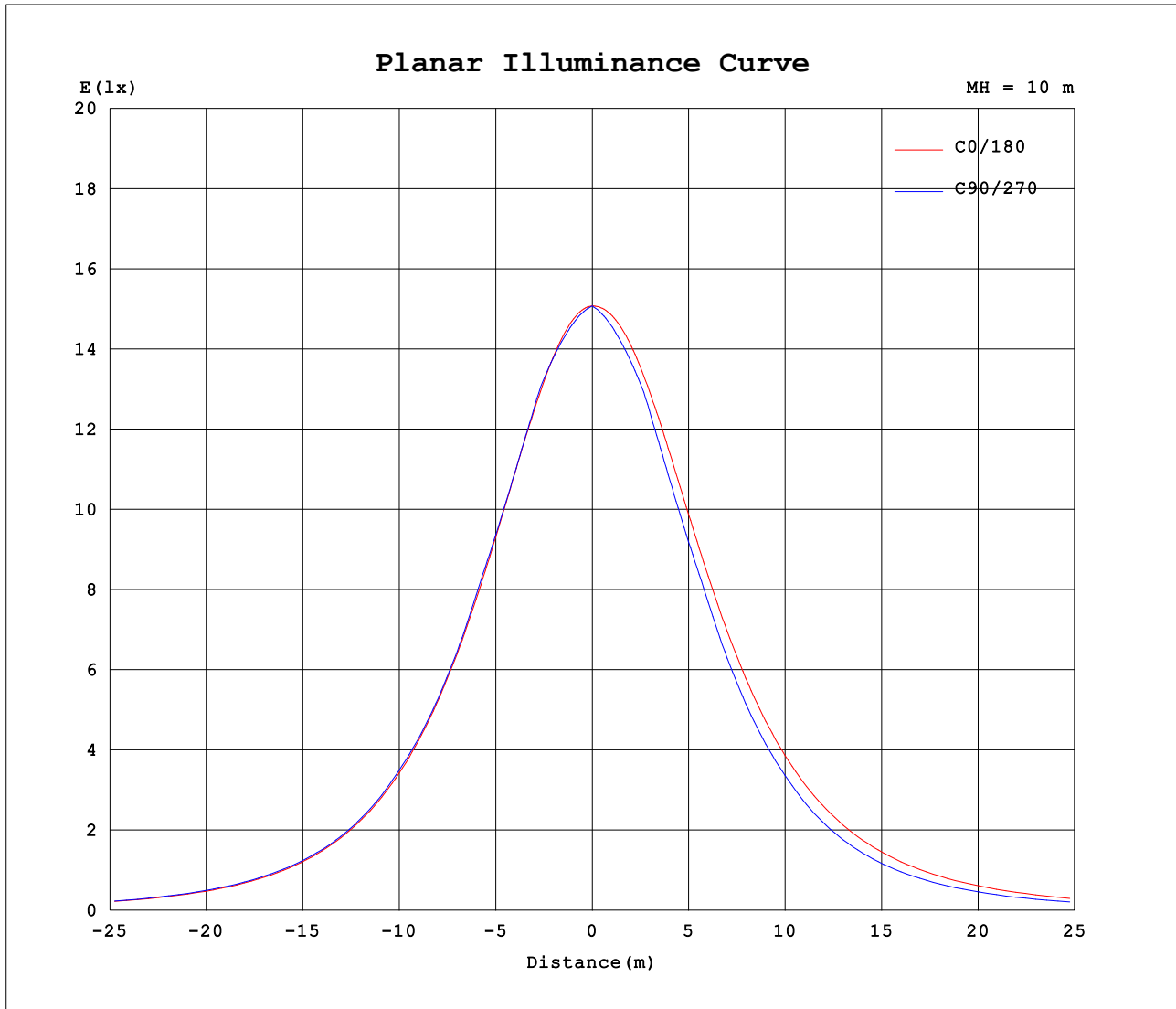
AvgL	cd/m2
L_0~180 (65) av	18276
L_0~180 (75) av	17625
L_0~180 (85) av	22305
L_90~270 (65) av	15904
L_90~270 (75) av	13377
L_90~270 (85) av	0
L_45 (65) av	17600
L_45 (75) av	16768
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:28 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=0.9812]
Remarks:

