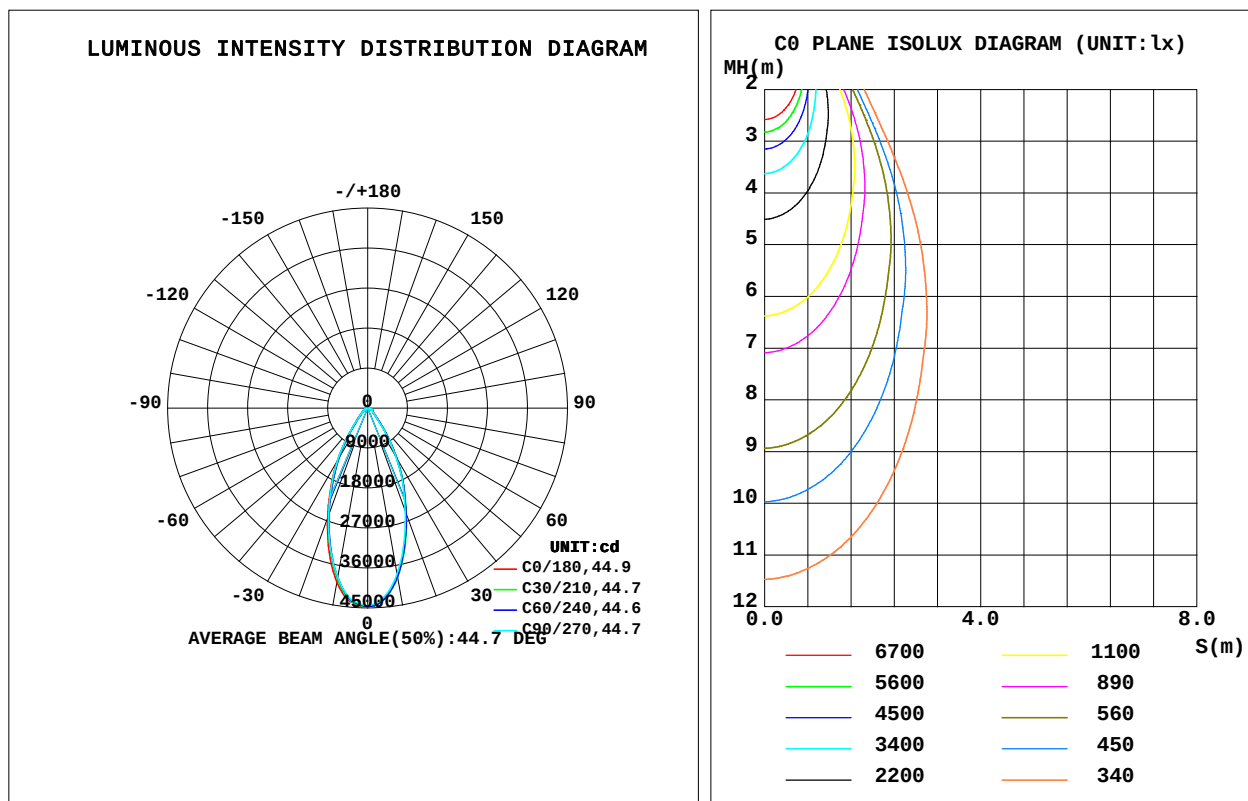


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.62 lm/W			
MODEL		I _{max} (cd)	44749	S/MH(C0/180)	0.72
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	0.71
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	31503	η UP, DN(C0-180)	0.0,49.3
NOMINAL FLUX(lm)	31503	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX	0.75



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

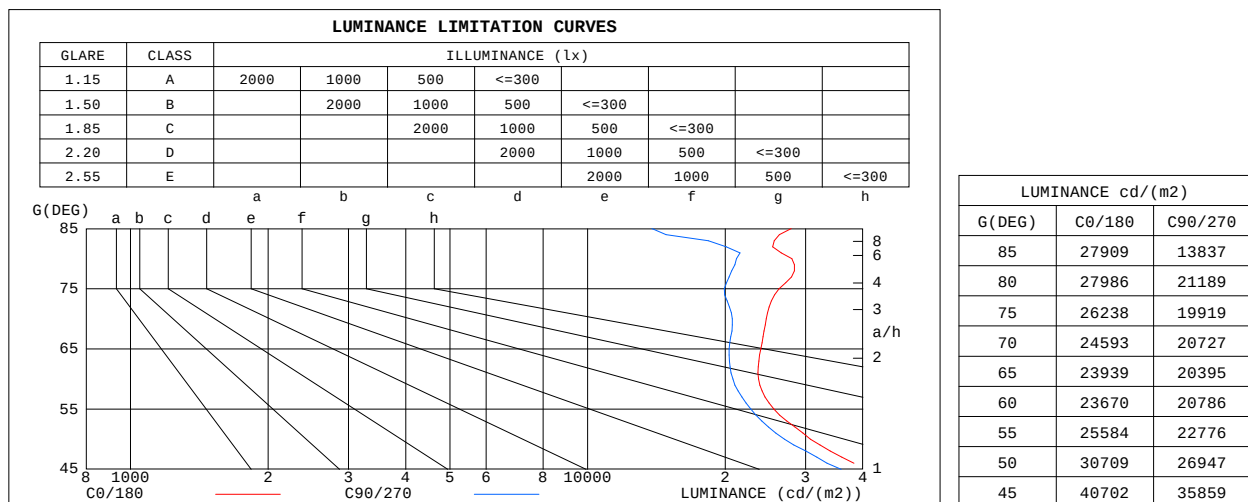
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum, lamp
10	3831	3935	3801	3833	3986	3830	3880	3873	0- 10	3973	3973	12.6, 12.6
20	2507	2592	2478	2462	2645	2497	2583	2584	10- 20	8934	12907	41, 41
30	1311	1339	1292	1210	1360	1279	1356	1375	20- 30	8656	21563	68.4, 68.4
40	441.2	445.7	414.3	378.1	459.2	403.2	449.4	458.7	30- 40	5013	26576	84.4, 84.4
50	192.5	169.8	168.9	156.7	196.0	160.3	173.4	174.5	40- 50	2024	28600	90.8, 90.8
60	115.4	109.4	101.3	105.0	115.7	105.0	102.2	109.2	50- 60	1163	29763	94.5, 94.5
70	82.01	86.83	69.12	83.68	82.11	83.55	70.79	86.41	60- 70	891.1	30654	97.3, 97.3
80	47.38	46.09	35.87	39.24	47.16	43.01	37.26	49.21	70- 80	628.0	31282	99.3, 99.3
90	7.793	4.692	0.1640	3.539	8.707	4.248	0.2755	6.129	80- 90	220.6	31503	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: $\times 10$ cd									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:



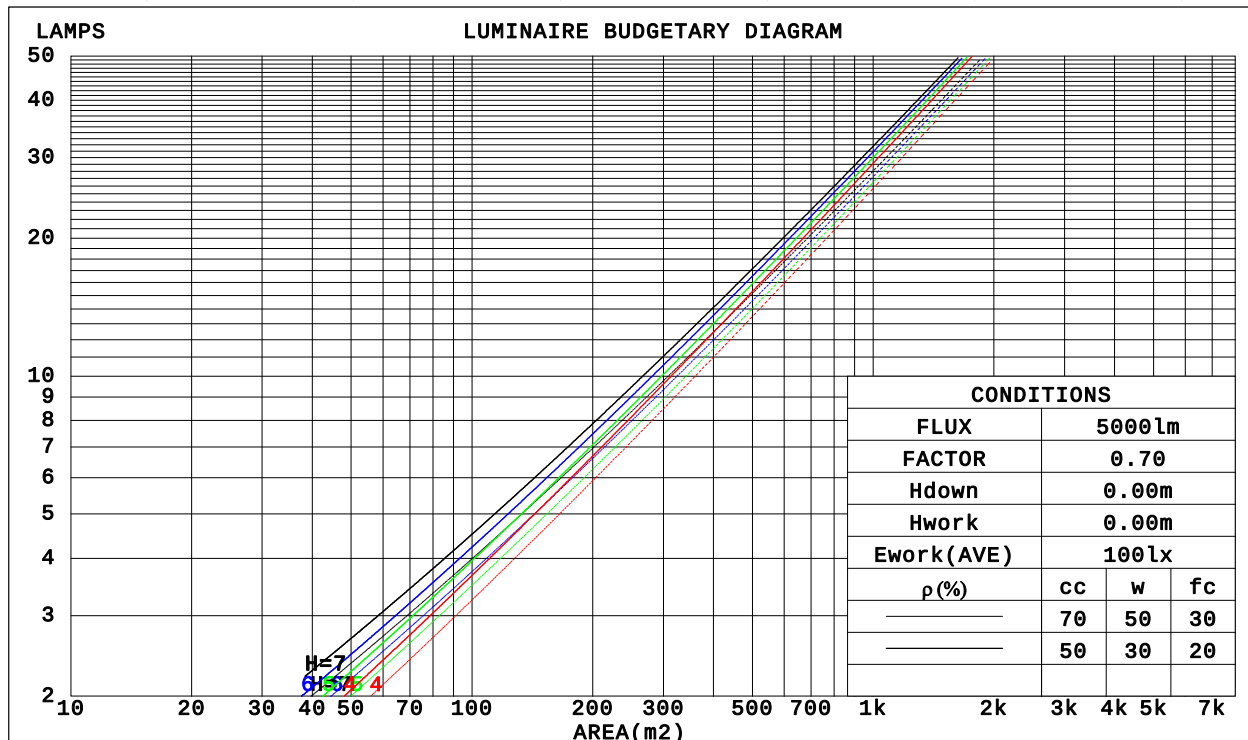
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	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	1.09	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.88	.84	.92	.87	.83	.90	.85	.82	.87	.84	.81	.85	.82	.79	.78
4.0	.87	.81	.77	.86	.81	.76	.84	.79	.75	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.73	.68	.65	.72	.68	.64	.63
7.0	.72	.66	.62	.72	.66	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.59
8.0	.68	.62	.58	.68	.62	.58	.66	.61	.57	.65	.61	.57	.64	.60	.57	.56
9.0	.65	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52
10.0	.61	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	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	.202	.115	.036	.195	.111	.035	.182	.105	.033	.171	.098	.032	.160	.093	.030	
2.0	.190	.104	.032	.184	.101	.031	.173	.096	.030	.163	.092	.029	.154	.087	.028	
3.0	.178	.095	.028	.173	.093	.028	.164	.089	.027	.155	.085	.026	.147	.082	.025	
4.0	.167	.087	.026	.163	.085	.025	.155	.082	.025	.147	.079	.024	.140	.076	.023	
5.0	.157	.080	.023	.154	.079	.023	.147	.076	.022	.140	.074	.022	.134	.072	.022	
6.0	.149	.074	.021	.145	.073	.021	.139	.071	.021	.133	.069	.020	.128	.067	.020	
7.0	.141	.070	.020	.138	.069	.020	.132	.067	.019	.127	.065	.019	.123	.064	.019	
8.0	.134	.065	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	.117	.060	.018	
9.0	.127	.062	.017	.125	.061	.017	.121	.060	.017	.117	.058	.017	.113	.057	.017	
10.0	.121	.058	.016	.119	.058	.016	.115	.057	.016	.112	.056	.016	.108	.054	.016	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.071	.117	.086	.061	.081	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.098	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm											
NAME: GGL-508-250W 6000K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:250*390mm			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	2H	21.2	22.2	21.4	22.4	22.5	21.0	22.0	21.2	22.2	22.3
	3H	22.2	23.1	22.4	23.3	23.5	21.8	22.8	22.1	23.0	23.2
	4H	22.7	23.6	23.0	23.8	24.1	22.3	23.2	22.5	23.4	23.6
	6H	23.3	24.1	23.6	24.4	24.6	22.7	23.5	23.0	23.8	24.0
	8H	23.5	24.3	23.8	24.6	24.8	22.9	23.7	23.2	23.9	24.2
	12H	23.7	24.4	24.0	24.7	25.0	22.9	23.7	23.2	24.0	24.2
4H	2H	21.4	22.3	21.7	22.6	22.8	21.3	22.2	21.6	22.4	22.6
	3H	22.7	23.5	23.1	23.8	24.1	22.4	23.2	22.8	23.5	23.8
	4H	23.5	24.2	23.8	24.5	24.8	23.0	23.8	23.4	24.1	24.4
	6H	24.2	24.8	24.6	25.1	25.5	23.6	24.2	24.0	24.6	24.9
	8H	24.4	25.0	24.8	25.4	25.7	23.8	24.4	24.2	24.8	25.2
	12H	24.7	25.2	25.1	25.6	26.0	24.0	24.5	24.4	24.9	25.3
8H	4H	23.8	24.4	24.2	24.8	25.1	23.4	24.0	23.8	24.4	24.8
	6H	24.7	25.2	25.1	25.6	26.0	24.2	24.7	24.6	25.1	25.5
	8H	25.1	25.5	25.5	25.9	26.3	24.5	24.9	25.0	25.4	25.8
	12H	25.4	25.7	25.8	26.2	26.7	24.7	25.1	25.2	25.5	26.0
12H	4H	23.8	24.4	24.3	24.8	25.1	23.5	24.0	23.9	24.4	24.8
	6H	24.8	25.2	25.2	25.6	26.1	24.3	24.7	24.7	25.1	25.6
	8H	25.2	25.6	25.7	26.0	26.5	24.7	25.0	25.1	25.5	25.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.5 / - 0.5					+ 0.5 / - 0.6				
1.5H		+ 1.1 / - 0.4					+ 1.1 / - 0.5				
2.0H		+ 0.8 / - 0.3					+ 0.6 / - 0.3				

CIE Pub.117, 31503 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.0)
Area: 0.0975 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:

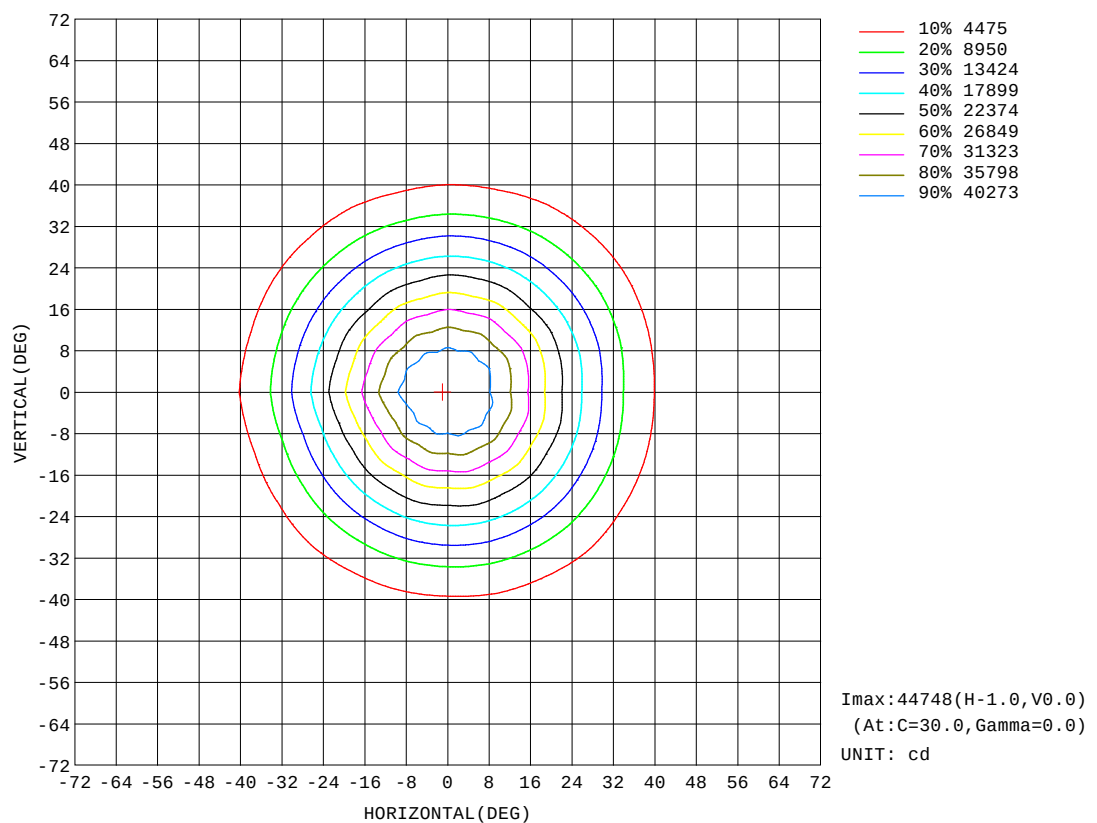
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	75	70	81	75	70	81	74	70	66
0.80	90	83	78	89	83	78	88	82	78	74
1.00	95	88	84	94	88	84	92	88	83	79
1.25	99	93	89	98	93	89	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	101	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	102	108	104	101	104	102	99	92
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	109	112	109	107	107	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:



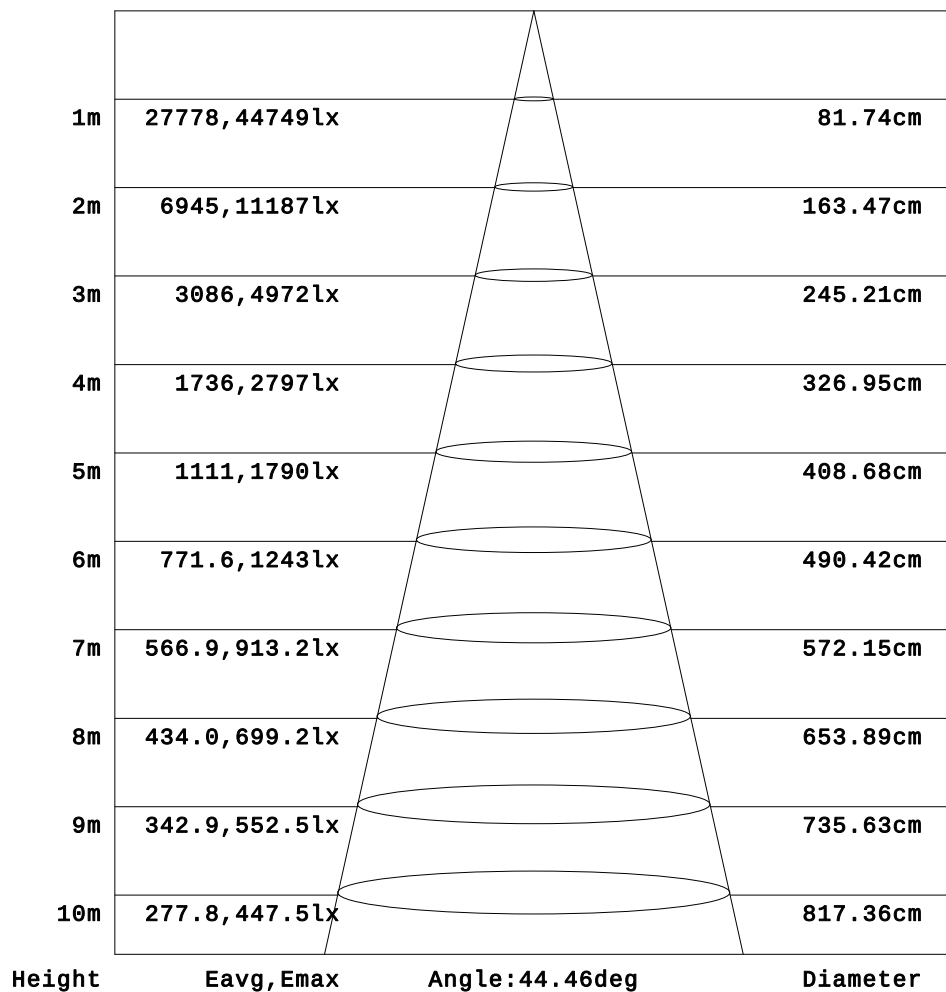
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-01-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:

Flux out:15724 lm



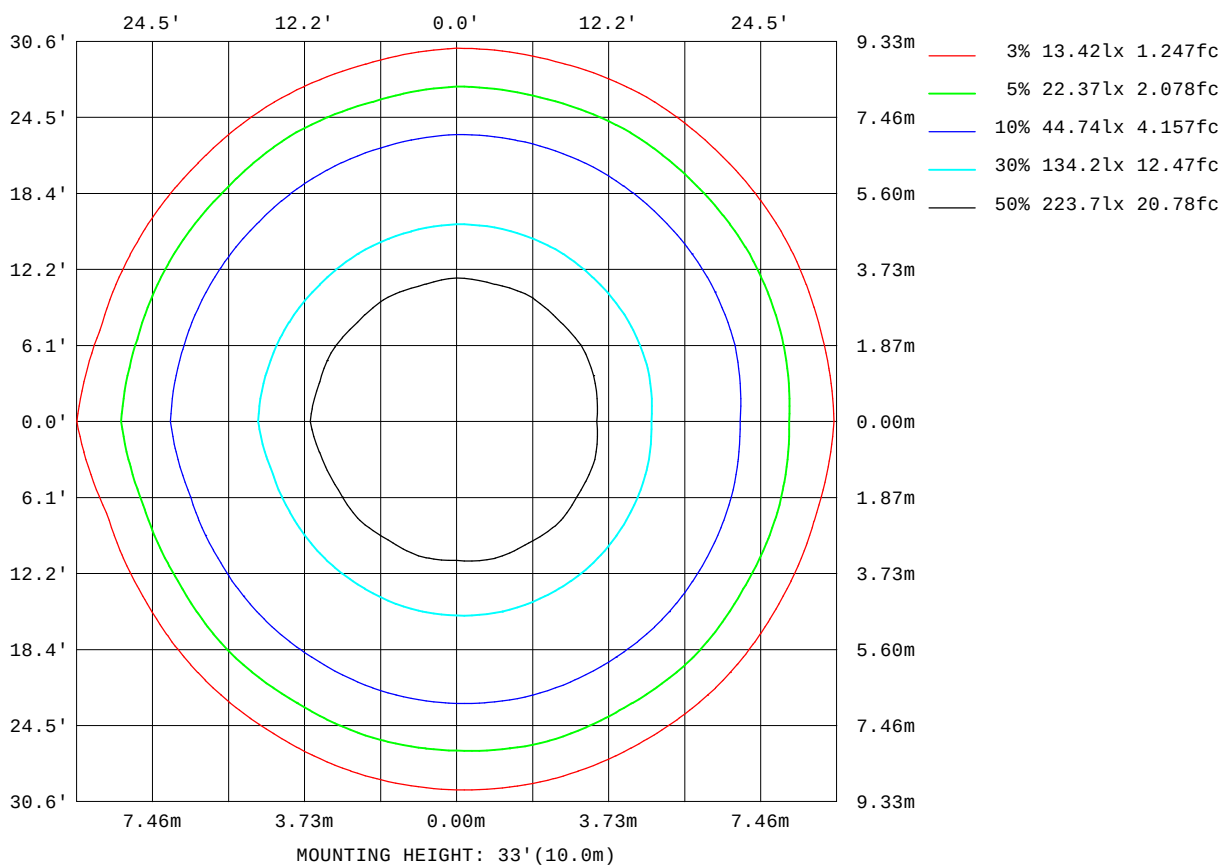
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.93V I:1.1106A P:241.19W PF:0.9874 Freq:50.00Hz Lamp Flux:31503x1 lm		
NAME: GGL-508-250W 6000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:250*390mm	Shielding Angle:

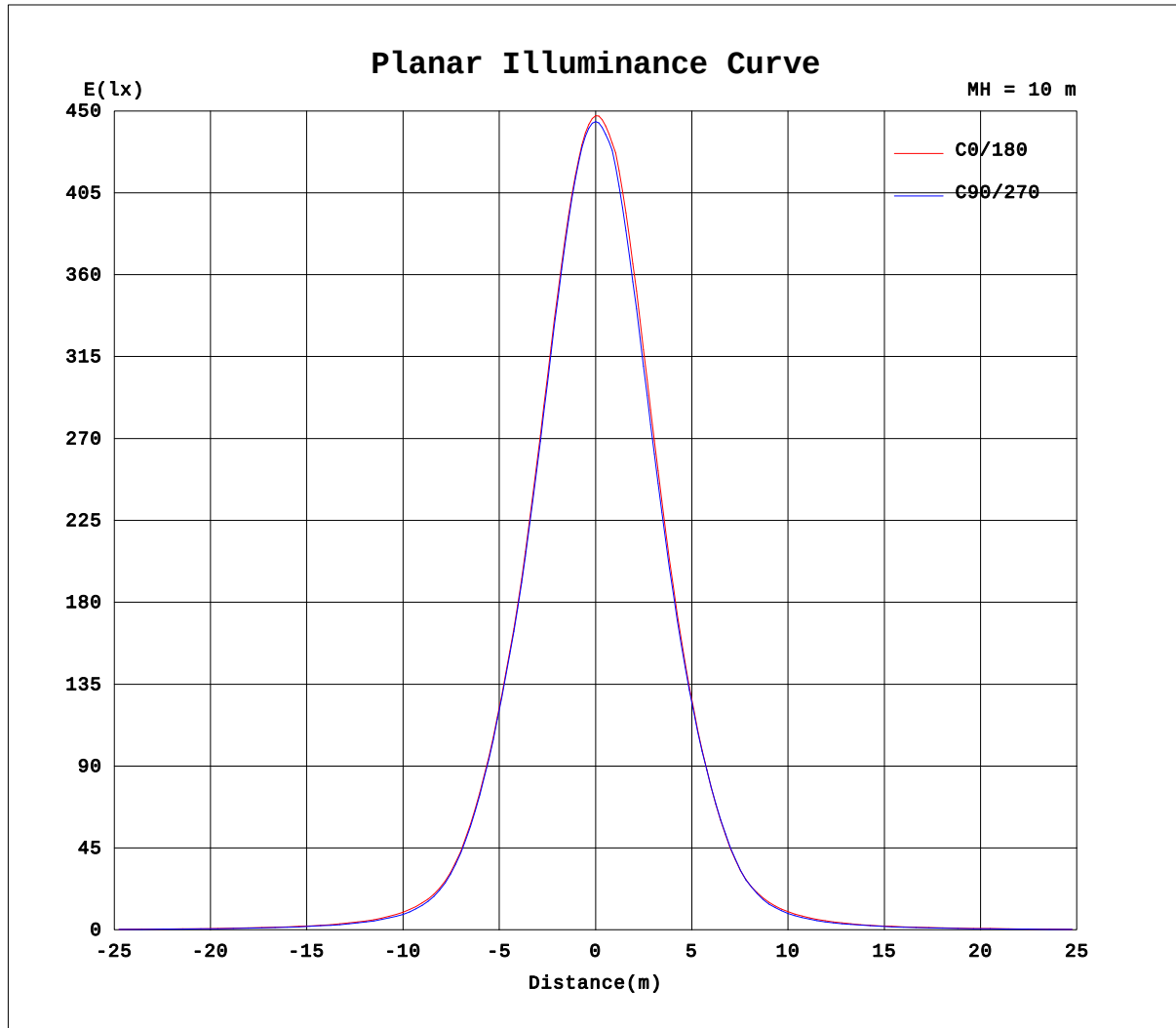
AvgL	cd/m2
L_0~180(65)av	23955
L_0~180(75)av	26265
L_0~180(85)av	28276
L_90~270(65)av	20505
L_90~270(75)av	20242
L_90~270(85)av	16996
L_45(65)av	22891
L_45(75)av	27657
L_45(85)av	24727

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-01-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks: