

Report No.:

Test Time: 2022-01-12 11:28

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ECO12W110-4PK

Number of Lamps: 1

Luminous Length (mm): 69 mm

Luminous Height (mm): 0 mm

Current: 0.055A

Power Factor: 0.959

Lamp Catalog: 3000K

Lumens per Lamp: 1012.4 lm

Luminous Width (mm): 69 mm

Voltage: 230.3 V

Power: 12.21 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1012.4 lm

Downward Ratio: 100.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.2, 164.0, 164.0, 163.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.0, 108.9, 109.5, 109.0

Luminaire Efficacy Rating (LER): 82.96

Max. Intensity: 364.08 cd

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 1012.4 lm

Efficiency: 100.00%

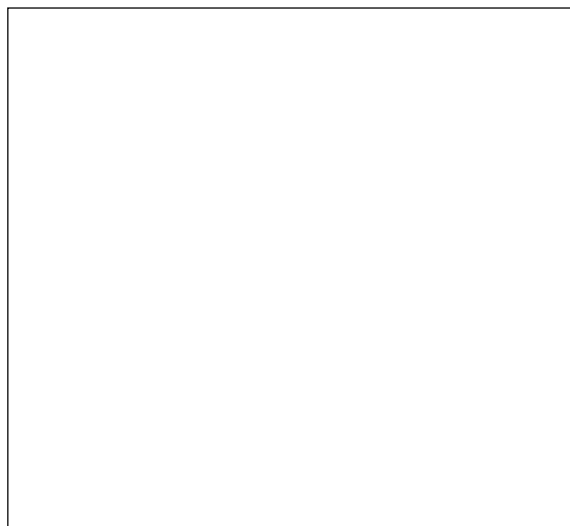
Upward Ratio: 0.00%

Central Intensity: 362.16 cd

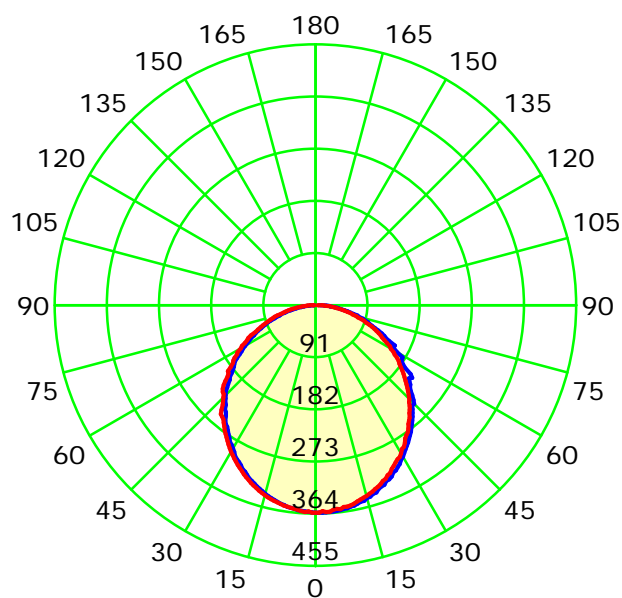
Pos of Max. Intensity: H45 V2

S/MH(C90/C270): 1.22

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature: 25°C

Operator: YAN

Gamma Plane (°):0.0-90.0: 1.0

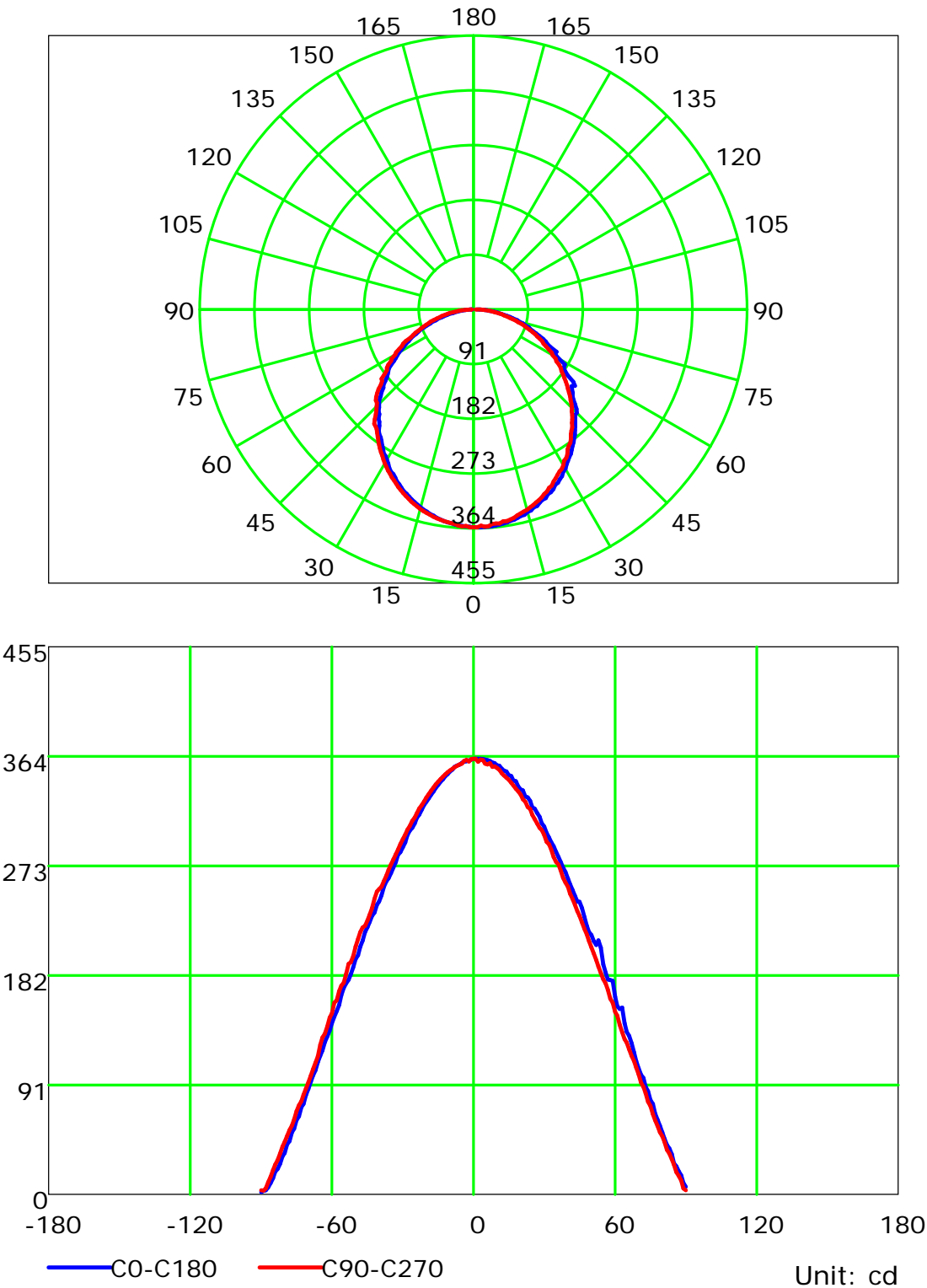
Test Device: GPM-1600

Distance: 7.919 m

Humidity: 50%

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector:

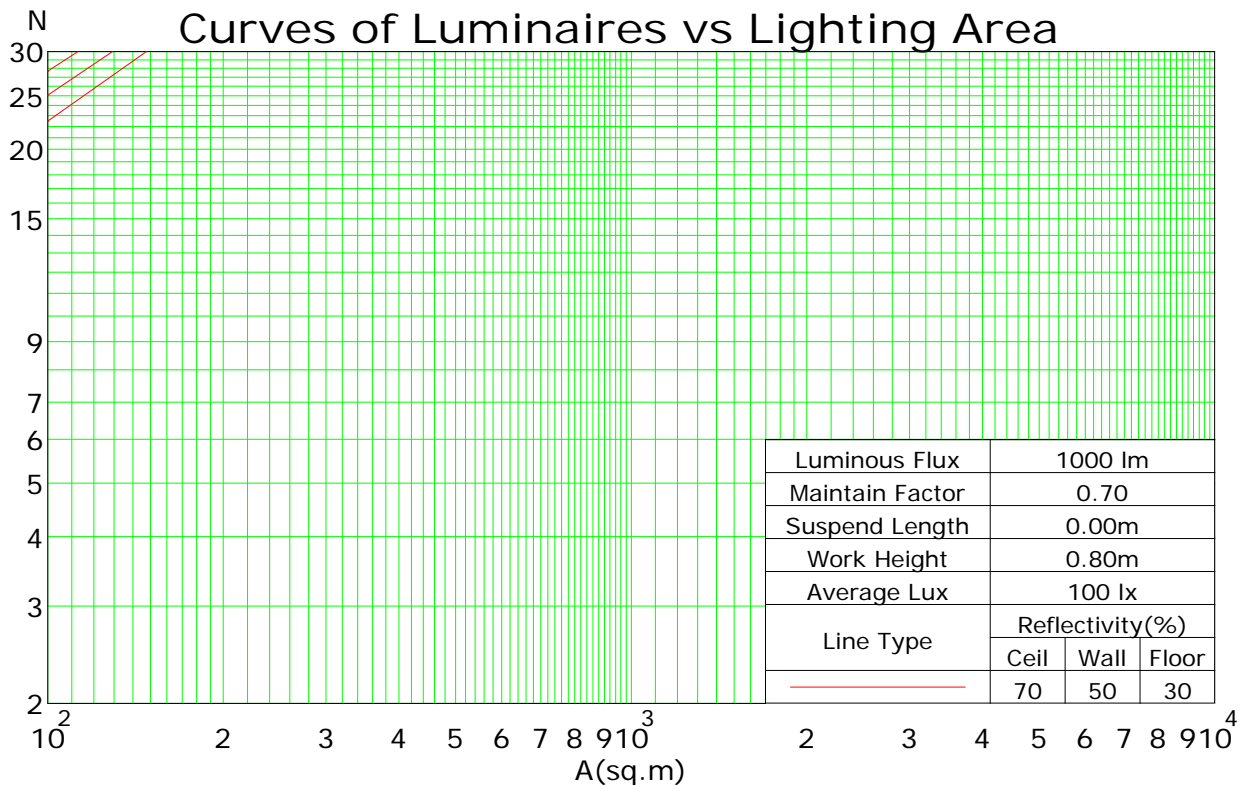
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

Spacing Criteria (0-180): 1.22

Spacing Criteria (90-270): 1.22

Spacing Criteria (Diagonal): 1.34



C Plane (°):0.0-360.0: 45.0

Test Lab:

Test Type: TYPE C

Temperature: 25°C

Operator: YAN

Gamma Plane (°):0.0-90.0:1.0

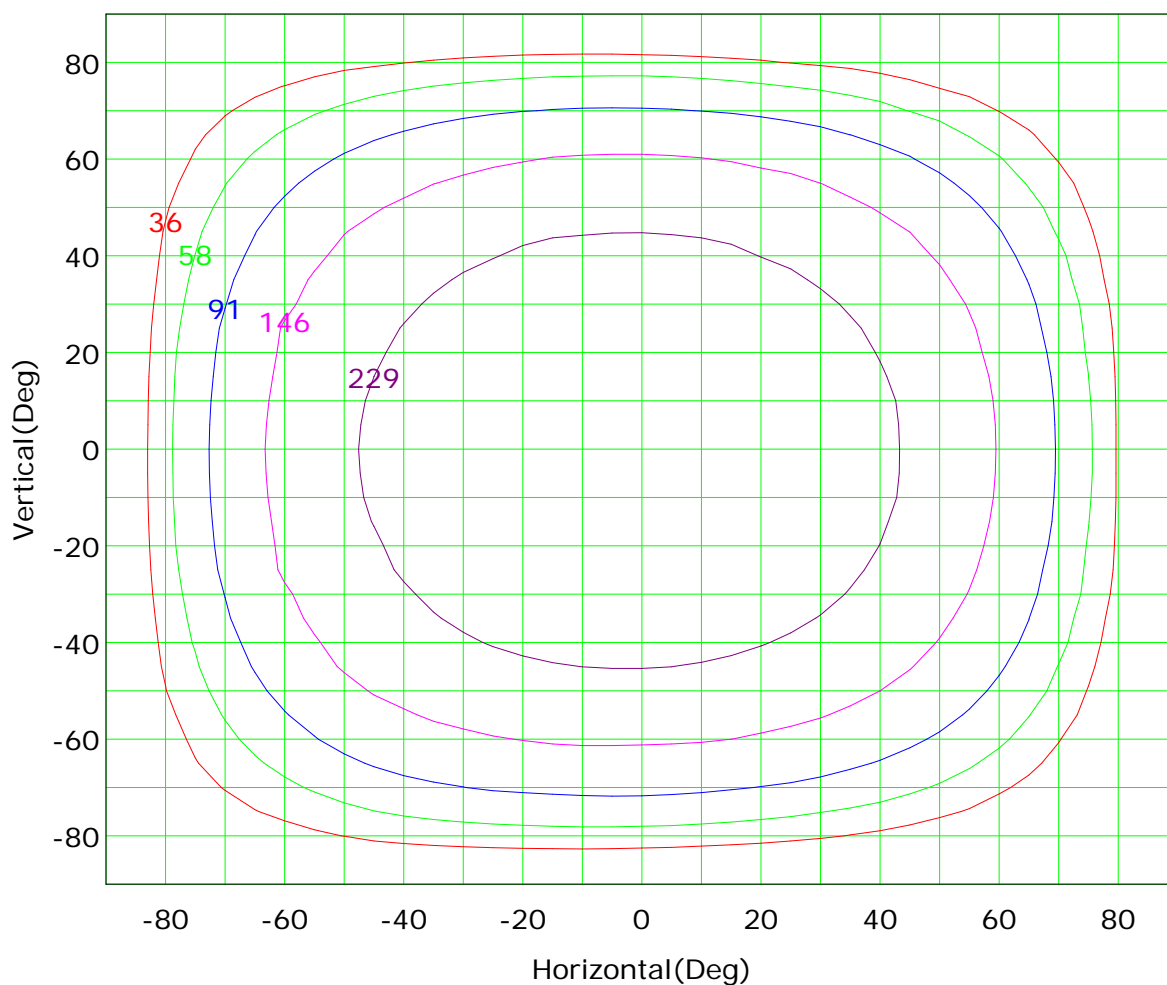
Test Device: GPM-1600

Distance: 7.919 m

Humidity: 50%

Inspector:

Isocandela (rectangle)



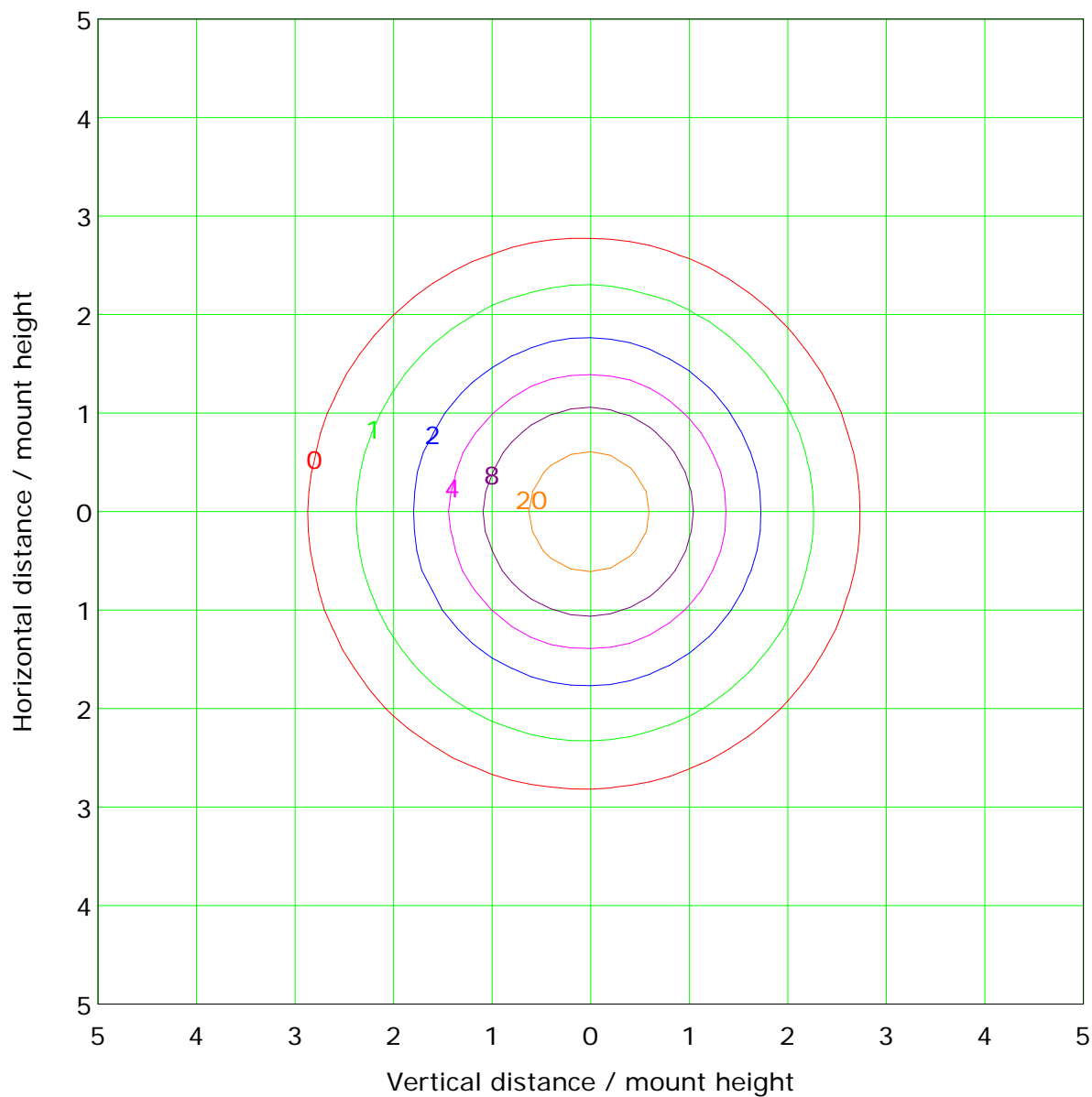
I_{max} (100%): 364 cd

(10%):	36 cd	(16%):	58 cd
(25%):	91 cd	(40%):	146 cd
(63%):	229 cd	(100%):	364 cd

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

IsoLux Plot



Mounting Height: 3.0m		Max Lux(100%): 40.4 lx	
(1%):	0.4 lx	(2%):	0.8 lx
(5%):	2.0 lx	(10%):	4.0 lx
(20%):	8.1 lx	(50%):	20.2 lx
(100%):	40.4 lx		

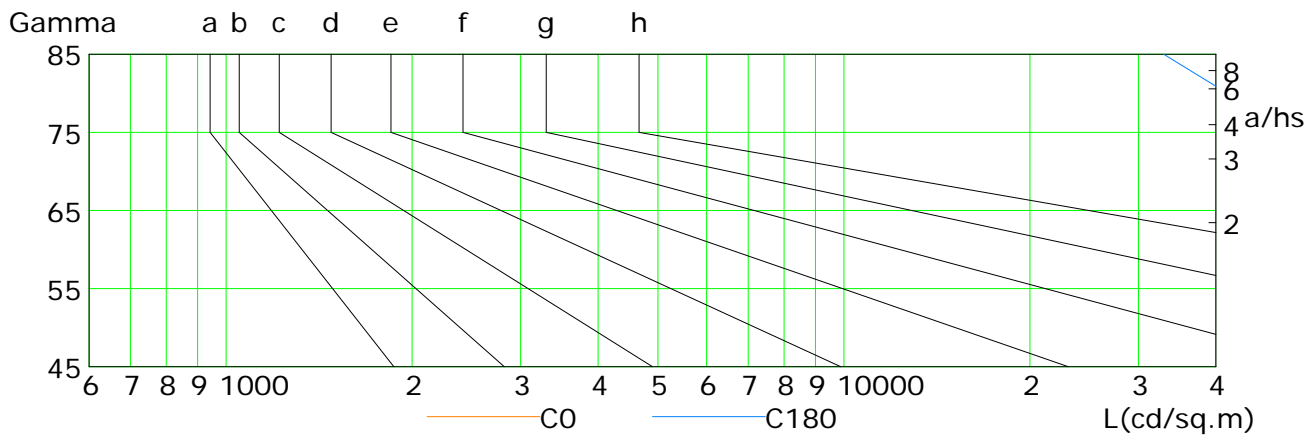
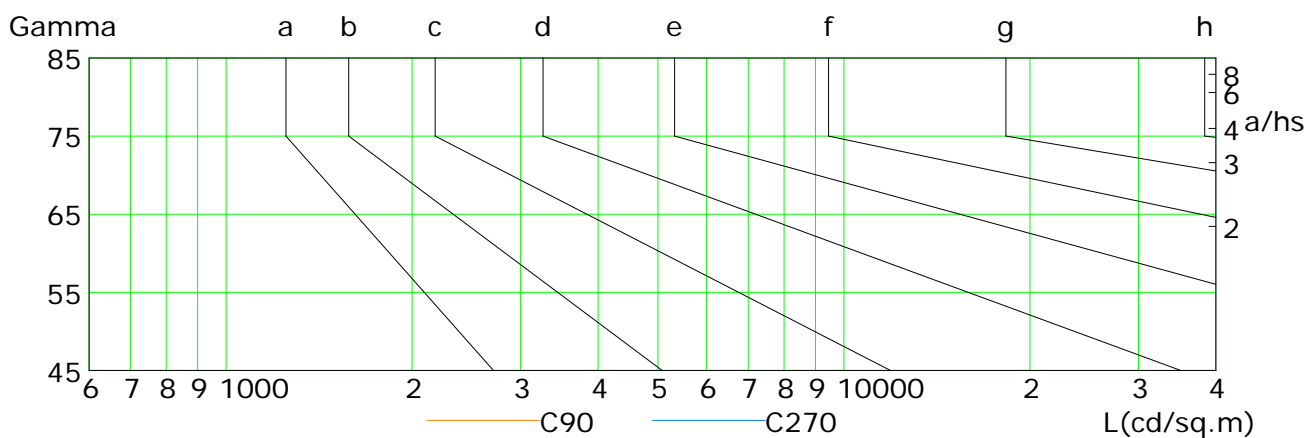
C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<= 300				
1.50	B		2000	1000	500	<= 300			
1.85	C			2000	1000	500	<= 300		
2.20	D				2000	1000	500	<= 300	
2.55	E					2000	1000	500	<= 300

a b c d e f g h

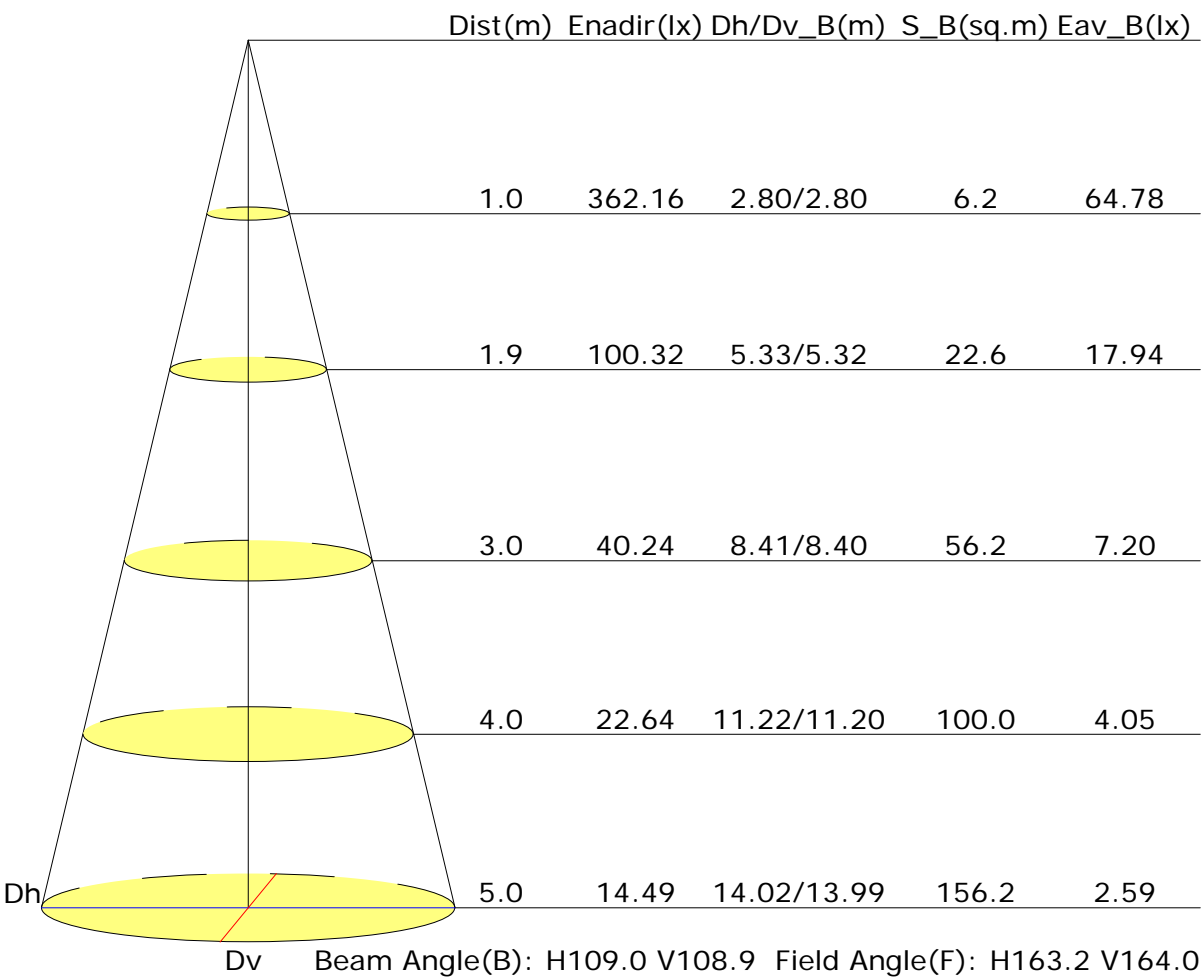


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	72279	70525	70108	69078	67244	64488	63746	62535	62707
C90	68792	67130	65527	63806	62731	61510	59745	58737	60128
C180	66011	63967	62963	59849	57403	54097	50315	41815	32968
C270	67705	67336	64483	63281	61906	57358	56320	53003	49307

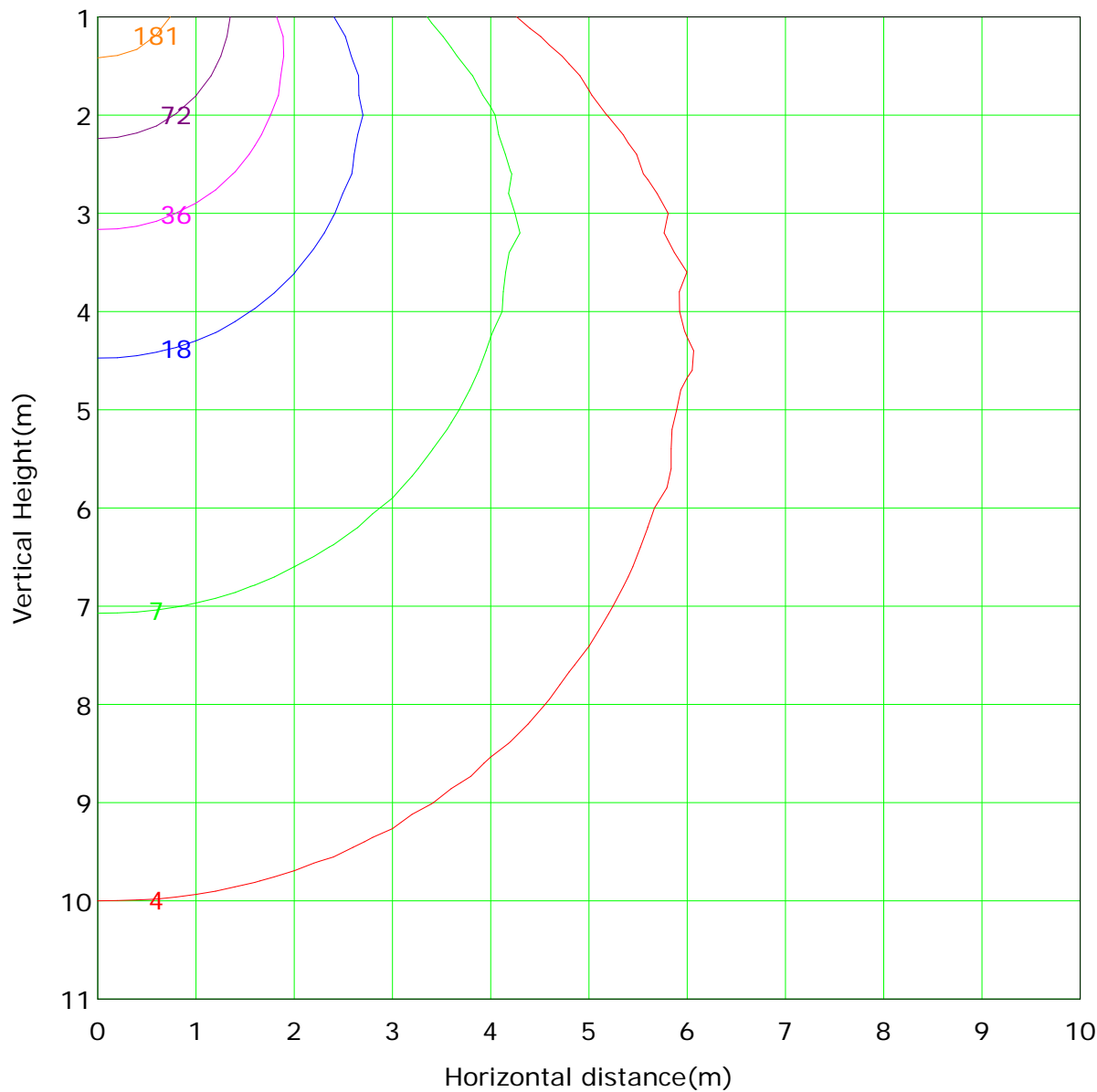
C Plane (°): 0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 362.2 lx
— (1%): 3.6 lx — (2%): 7.2 lx
— (5%): 18.1 lx — (10%): 36.2 lx
— (20%): 72.4 lx — (50%): 181.1 lx
— (100%): 362.2 lx

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector:

Area Flux Table

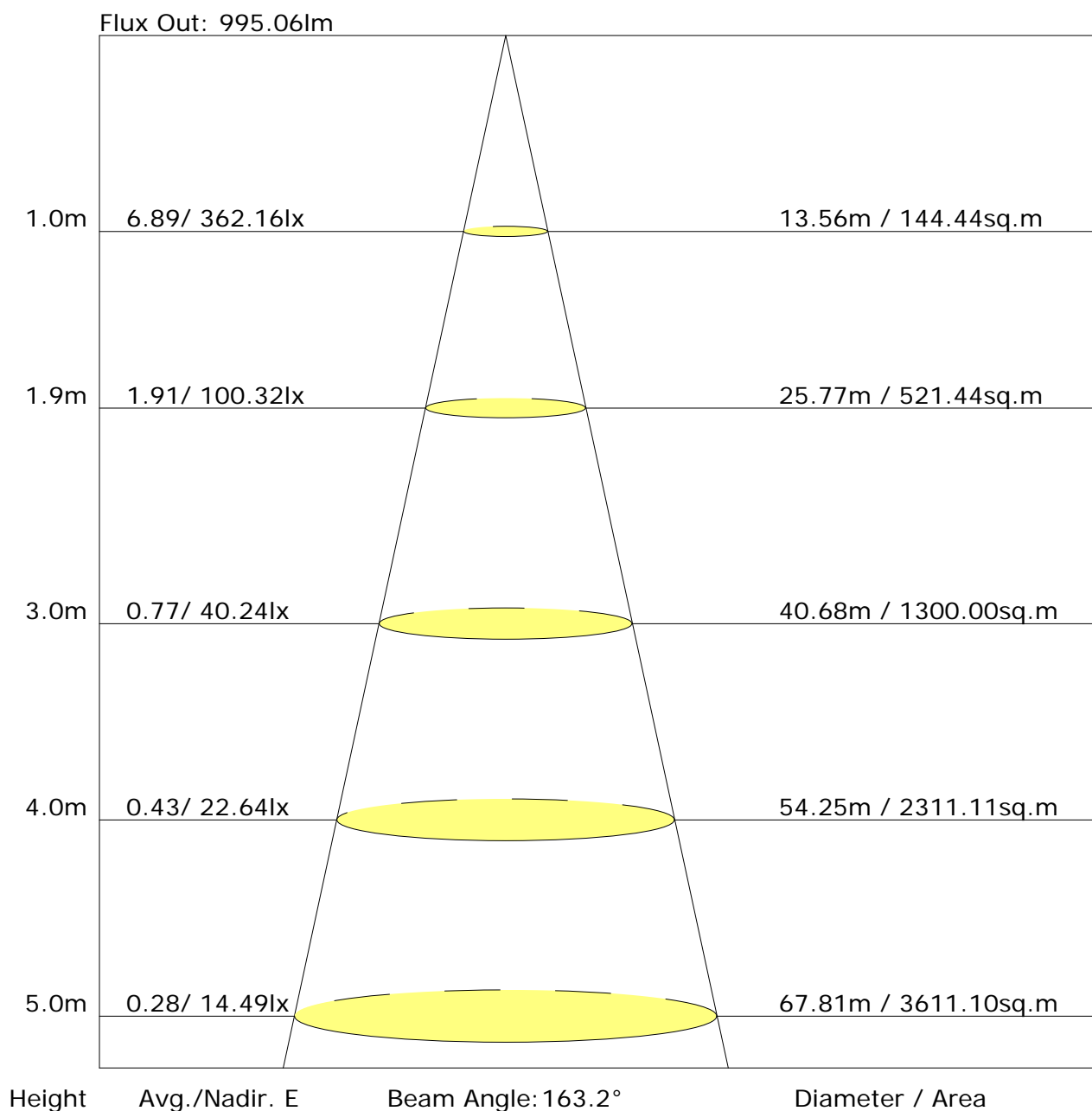
Unit: 1m

Unit: m																				
Vertical plane																				
-90	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	5.7	0.9
-80	0.0	0.1	0.3	0.5	0.9	1.3	1.6	1.9	2.0	2.1	2.0	1.8	1.5	1.1	0.7	0.4	0.2	0.0	18.3	16.5
-70	0.0	0.2	0.5	1.0	1.6	2.3	2.9	3.4	3.7	3.7	3.5	3.1	2.5	1.9	1.2	0.7	0.3	0.0	32.4	31.9
-60	0.0	0.2	0.7	1.5	2.4	3.3	4.3	5.0	5.4	5.4	5.1	4.4	3.6	2.7	1.7	0.9	0.4	0.1	47.0	46.7
-50	0.0	0.3	1.0	1.9	3.1	4.4	5.5	6.4	6.9	7.0	6.5	5.7	4.6	3.4	2.2	1.2	0.4	0.1	60.6	60.4
-40	0.0	0.4	1.2	2.3	3.7	5.2	6.5	7.6	8.2	8.3	7.8	6.8	5.5	4.1	2.6	1.4	0.5	0.1	72.3	72.2
-30	0.0	0.4	1.3	2.6	4.2	5.9	7.4	8.7	9.4	9.5	8.9	7.7	6.2	4.6	3.0	1.6	0.6	0.1	82.2	82.1
-20	0.1	0.5	1.4	2.9	4.6	6.4	8.1	9.5	10.3	10.4	9.7	8.4	6.7	4.9	3.2	1.7	0.6	0.1	89.4	89.3
-10	0.1	0.5	1.5	3.0	4.7	6.6	8.5	9.9	10.8	10.8	10.2	8.8	7.0	5.1	3.4	1.8	0.6	0.1	93.4	93.3
0	0.1	0.5	1.5	3.0	4.7	6.7	8.5	9.9	10.8	10.9	10.2	8.8	7.1	5.1	3.4	1.8	0.6	0.1	93.6	93.5
10	0.1	0.5	1.4	2.9	4.6	6.4	8.2	9.6	10.3	10.4	9.8	8.5	6.8	5.0	3.2	1.7	0.6	0.1	90.1	90.0
20	0.1	0.5	1.3	2.7	4.2	5.9	7.5	8.8	9.5	9.6	9.0	7.9	6.3	4.6	3.0	1.6	0.6	0.1	83.2	83.1
30	0.0	0.4	1.2	2.4	3.8	5.3	6.6	7.7	8.3	8.4	7.9	7.0	5.6	4.1	2.7	1.4	0.5	0.1	73.4	73.3
40	0.0	0.3	1.0	2.0	3.2	4.4	5.5	6.4	6.9	7.0	6.6	5.8	4.8	3.5	2.3	1.2	0.5	0.1	61.5	61.3
50	0.0	0.3	0.8	1.5	2.5	3.4	4.3	5.0	5.4	5.4	5.2	4.6	3.8	2.8	1.8	1.0	0.4	0.1	48.2	47.9
60	0.0	0.2	0.5	1.1	1.7	2.4	3.0	3.5	3.8	3.8	3.7	3.3	2.7	2.0	1.3	0.7	0.3	0.0	34.1	33.6
70	0.0	0.1	0.3	0.6	1.0	1.4	1.7	2.0	2.2	2.2	2.1	1.9	1.6	1.2	0.8	0.5	0.2	0.0	20.0	18.7
80	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.7	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	7.0	1.8
90	0.6	5.4	16.1	32.1	51.5	72.0	91.2	106.4	115.2	116.3	109.5	95.9	77.4	57.0	37.2	19.8	7.4	1.2	1012	
Flux(T)	0.0	4.2	15.2	31.1	50.6	71.1	90.3	105.5	114.3	115.4	108.7	95.0	76.6	56.2	36.4	18.9	6.6	0.4		996
Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
Horizontal plane																				

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	27.5	28.9	27.8	29.2	29.4	27.2	28.6	27.5	28.8	29.1
3H	29.2	30.5	29.5	30.8	31.0	28.8	30.1	29.1	30.4	30.6
4H	29.9	31.2	30.3	31.4	31.7	29.5	30.7	29.8	31.0	31.3
6H	30.5	31.7	30.9	32.0	32.3	30.1	31.2	30.4	31.5	31.8
8H	30.8	31.9	31.2	32.2	32.5	30.3	31.4	30.6	31.7	32.0
12H	31.0	32.0	31.4	32.4	32.7	30.4	31.5	30.8	31.8	32.1
X=4H Y=2H	28.2	29.4	28.6	29.7	30.0	28.0	29.2	28.3	29.5	29.8
3H	30.1	31.1	30.5	31.5	31.8	29.8	30.8	30.2	31.1	31.5
4H	31.0	31.9	31.4	32.3	32.6	30.6	31.5	31.0	31.9	32.3
6H	31.7	32.6	32.1	32.9	33.3	31.3	32.1	31.7	32.5	32.9
8H	32.0	32.8	32.5	33.2	33.6	31.6	32.3	32.0	32.7	33.2
12H	32.3	33.0	32.7	33.4	33.8	31.8	32.5	32.2	32.9	33.3
X=8H Y=4H	31.3	32.1	31.8	32.5	32.9	31.0	31.8	31.4	32.2	32.6
6H	32.3	32.9	32.7	33.3	33.8	31.9	32.5	32.3	32.9	33.4
8H	32.7	33.2	33.2	33.7	34.2	32.3	32.8	32.7	33.3	33.7
12H	33.0	33.5	33.5	34.0	34.5	32.6	33.1	33.1	33.5	34.0
X=12H Y=4H	31.4	32.0	31.8	32.5	32.9	31.0	31.7	31.5	32.2	32.6
6H	32.3	32.9	32.8	33.4	33.8	32.0	32.5	32.5	33.0	33.5
8H	32.8	33.3	33.3	33.8	34.3	32.4	32.9	32.9	33.4	33.9
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.4					+0.4/-0.5				
S=2.0H	+0.6/-0.8					+0.5/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 1012lm ($8\log(F/F_0) = 0.0$).

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.60	0.68	0.76	0.81	0.88	0.93	0.96	1.01	1.03
	0.30		0.52	0.61	0.68	0.74	0.82	0.87	0.91	0.96	1.00
	0.20		0.47	0.55	0.63	0.68	0.77	0.82	0.87	0.93	0.97
0.50	0.50	0.20	0.58	0.66	0.73	0.78	0.85	0.89	0.92	0.97	0.99
	0.30		0.52	0.59	0.67	0.72	0.80	0.85	0.88	0.93	0.96
	0.20		0.47	0.54	0.62	0.67	0.75	0.81	0.85	0.90	0.94
0.30	0.50	0.20	0.57	0.64	0.71	0.76	0.82	0.86	0.89	0.93	0.95
	0.30		0.51	0.58	0.66	0.71	0.77	0.82	0.85	0.90	0.93
	0.20		0.46	0.54	0.61	0.66	0.74	0.79	0.82	0.87	0.91
0.00	0.00	0.00	0.44	0.51	0.58	0.63	0.70	0.75	0.78	0.83	0.86
<p>Rating: 12W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.95	0.81	0.68	0.60	0.48	0.40	0.34	0.27	0.22	
	0.30		0.79	0.69	0.60	0.53	0.43	0.37	0.32	0.25	0.21	
	0.20		0.68	0.60	0.53	0.47	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.92	0.78	0.66	0.57	0.46	0.41	0.33	0.25	0.21	
	0.30		0.77	0.67	0.58	0.51	0.42	0.35	0.31	0.24	0.20	
	0.20		0.67	0.60	0.52	0.46	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.89	0.75	0.63	0.55	0.44	0.36	0.31	0.24	0.20	
	0.30		0.76	0.66	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.66	0.59	0.51	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.56	0.49	0.42	0.37	0.30	0.25	0.22	0.17	0.14	
<p>Rating: 12W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating: 12W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	362.1	0.3	0.3	0.03	0.03
1.0-2.0	361.8	1.0	1.4	0.10	0.14
2.0-3.0	361.7	1.7	3.1	0.17	0.31
3.0-4.0	361.5	2.4	5.5	0.24	0.55
4.0-5.0	360.7	3.1	8.6	0.31	0.85
5.0-6.0	359.5	3.8	12.4	0.37	1.23
6.0-7.0	358.7	4.5	16.9	0.44	1.67
7.0-8.0	357.6	5.1	22.0	0.51	2.17
8.0-9.0	356.3	5.8	27.8	0.57	2.74
9.0-10.0	355.1	6.4	34.2	0.63	3.38
10.0-11.0	353.7	7.1	41.3	0.70	4.08
11.0-12.0	352.1	7.7	49.0	0.76	4.84
12.0-13.0	349.9	8.3	57.3	0.82	5.66
13.0-14.0	348.0	8.9	66.2	0.88	6.54
14.0-15.0	346.0	9.5	75.7	0.94	7.47
15.0-16.0	343.6	10.1	85.7	0.99	8.47
16.0-17.0	341.3	10.6	96.4	1.05	9.52
17.0-18.0	339.0	11.2	107.6	1.10	10.62
18.0-19.0	336.1	11.7	119.2	1.16	11.78
19.0-20.0	333.3	12.2	131.4	1.20	12.98
20.0-21.0	330.6	12.7	144.1	1.25	14.24
21.0-22.0	327.4	13.2	157.3	1.30	15.54
22.0-23.0	324.0	13.6	170.9	1.34	16.88
23.0-24.0	321.0	14.0	184.9	1.39	18.27
24.0-25.0	317.5	14.4	199.4	1.43	19.69
25.0-26.0	313.9	14.8	214.2	1.46	21.16
26.0-27.0	310.7	15.2	229.4	1.50	22.66
27.0-28.0	307.1	15.6	245.0	1.54	24.20
28.0-29.0	303.4	15.9	260.8	1.57	25.76
29.0-30.0	299.5	16.2	277.0	1.60	27.36
30.0-31.0	295.2	16.4	293.4	1.62	28.98
31.0-32.0	291.3	16.7	310.1	1.65	30.63
32.0-33.0	287.3	16.9	327.1	1.67	32.30
33.0-34.0	282.7	17.1	344.2	1.69	33.99
34.0-35.0	278.4	17.3	361.5	1.71	35.70
35.0-36.0	274.2	17.5	378.9	1.72	37.43

C Plane (°): 0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	270.0	17.6	396.5	1.74	39.17
37.0-38.0	265.7	17.7	414.3	1.75	40.92
38.0-39.0	261.1	17.8	432.1	1.76	42.68
39.0-40.0	256.4	17.9	450.0	1.77	44.45
40.0-41.0	252.1	18.0	467.9	1.77	46.22
41.0-42.0	247.6	18.0	485.9	1.78	48.00
42.0-43.0	242.5	18.0	503.9	1.77	49.77
43.0-44.0	237.6	17.9	521.8	1.77	51.54
44.0-45.0	232.9	17.9	539.7	1.77	53.31
45.0-46.0	228.2	17.9	557.6	1.76	55.07
46.0-47.0	223.4	17.8	575.3	1.76	56.83
47.0-48.0	218.5	17.7	593.0	1.74	58.57
48.0-49.0	213.3	17.5	610.5	1.73	60.30
49.0-50.0	208.3	17.4	627.9	1.72	62.02
50.0-51.0	203.0	17.2	645.1	1.70	63.72
51.0-52.0	197.4	16.9	662.0	1.67	65.39
52.0-53.0	193.2	16.8	678.8	1.66	67.05
53.0-54.0	188.8	16.6	695.5	1.64	68.69
54.0-55.0	183.0	16.3	711.8	1.61	70.31
55.0-56.0	177.7	16.1	727.9	1.59	71.89
56.0-57.0	172.1	15.7	743.6	1.55	73.45
57.0-58.0	166.3	15.4	759.0	1.52	74.97
58.0-59.0	162.0	15.1	774.1	1.50	76.46
59.0-60.0	156.5	14.8	788.9	1.46	77.92
60.0-61.0	149.9	14.3	803.2	1.41	79.34
61.0-62.0	144.4	13.9	817.1	1.37	80.71
62.0-63.0	139.3	13.6	830.7	1.34	82.05
63.0-64.0	133.8	13.1	843.8	1.30	83.35
64.0-65.0	128.0	12.7	856.5	1.25	84.60
65.0-66.0	122.4	12.2	868.7	1.21	85.81
66.0-67.0	116.7	11.7	880.4	1.16	86.97
67.0-68.0	111.1	11.3	891.7	1.11	88.08
68.0-69.0	105.5	10.8	902.5	1.06	89.14
69.0-70.0	100.0	10.3	912.7	1.01	90.16
70.0-71.0	94.5	9.8	922.5	0.96	91.12
71.0-72.0	89.3	9.3	931.8	0.92	92.04

C Plane (°): 0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2	
G1.0	362.1	362.3	362.2	362.0	361.4	361.9	362.0	362.0	362.1	
G2.0	362.2	364.1	359.8	362.3	360.9	361.5	359.8	363.1	362.2	
G3.0	362.3	362.1	361.6	362.0	360.2	360.9	361.2	362.9	362.3	
G4.0	362.0	363.7	361.1	360.7	359.8	361.0	360.5	362.6	362.0	
G5.0	361.5	361.3	358.2	359.8	358.9	360.0	358.2	362.0	361.5	
G6.0	361.0	362.6	357.5	359.0	357.1	358.1	357.4	359.4	361.0	
G7.0	360.3	359.9	358.5	358.1	356.6	357.2	356.3	360.7	360.3	
G8.0	359.1	359.0	355.5	356.8	355.4	355.5	355.2	357.6	359.1	
G9.0	358.6	358.0	356.0	354.5	353.2	353.9	354.0	358.7	358.6	
G10.0	356.8	359.1	354.5	352.8	351.7	352.3	352.5	355.2	356.8	
G11.0	356.2	357.7	352.9	350.9	349.4	350.1	350.9	356.2	356.2	
G12.0	354.0	356.3	350.0	350.5	347.6	348.0	349.2	353.9	354.0	
G13.0	352.2	352.5	348.2	346.8	345.1	346.5	347.4	350.4	352.2	
G14.0	351.7	350.8	346.4	346.5	343.1	344.2	345.3	350.1	351.7	
G15.0	348.5	349.0	344.8	342.3	340.5	341.8	343.1	348.4	348.5	
G16.0	347.9	347.0	342.3	339.7	338.0	339.2	340.9	344.3	347.9	
G17.0	344.0	346.4	340.0	339.7	334.9	335.3	338.3	343.4	344.0	
G18.0	343.6	342.6	337.4	337.2	332.4	332.4	335.8	340.9	343.6	
G19.0	339.1	340.2	335.0	331.8	329.1	330.9	332.8	336.6	339.1	
G20.0	336.6	338.6	332.4	331.1	326.3	327.8	329.9	333.9	336.6	
G21.0	335.9	335.7	328.6	325.5	323.7	324.6	326.8	332.5	335.9	
G22.0	330.9	332.3	326.6	324.5	319.7	319.4	323.7	328.5	330.9	
G23.0	330.0	329.6	322.1	319.2	315.8	316.1	320.9	325.3	330.0	
G24.0	327.1	326.4	320.5	317.7	313.1	312.5	317.0	322.2	327.1	
G25.0	321.7	323.3	315.4	312.5	308.5	308.8	313.4	319.7	321.7	
G26.0	320.6	320.0	312.0	309.0	304.7	307.3	310.5	315.6	320.6	
G27.0	317.0	316.0	308.3	305.3	302.5	303.3	306.3	312.3	317.0	
G28.0	313.9	313.4	304.7	303.0	298.8	297.2	303.3	308.8	313.9	
G29.0	308.5	308.6	303.0	299.1	292.8	295.4	299.2	305.0	308.5	
G30.0	305.9	306.1	299.0	295.0	288.7	289.1	295.3	301.4	305.9	
G31.0	300.5	300.9	293.0	291.0	284.5	285.0	291.3	296.7	300.5	
G32.0	296.7	298.7	291.1	286.6	282.3	282.8	286.7	293.6	296.7	
G33.0	292.9	293.0	286.9	281.3	276.4	276.3	282.9	288.4	292.9	
G34.0	289.5	288.7	280.6	277.1	271.8	274.0	278.6	284.0	289.5	
G35.0	284.7	287.1	276.5	272.9	267.1	267.7	274.2	279.8	284.7	
G36.0	280.7	280.6	274.3	268.5	262.9	265.1	269.8	275.2	280.7	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	276.5	276.1	269.6	264.0	260.3	258.3	265.1	272.7	276.5	
G38.0	271.9	273.9	263.3	259.9	255.9	256.0	260.6	267.9	271.9	
G39.0	268.0	269.7	259.3	255.1	248.8	250.8	256.0	261.4	268.0	
G40.0	262.6	262.9	255.9	250.3	243.6	247.1	253.9	256.6	262.6	
G41.0	257.9	257.5	250.1	245.6	240.9	244.6	251.9	252.0	257.9	
G42.0	253.1	254.9	245.7	240.6	234.3	237.9	245.9	247.9	253.1	
G43.0	248.3	248.1	241.0	235.6	231.7	231.8	238.1	245.5	248.3	
G44.0	243.6	245.4	235.4	230.9	226.4	225.4	232.6	241.2	243.6	
G45.0	243.3	238.4	231.6	226.3	222.2	221.6	227.9	233.3	243.3	
G46.0	238.3	235.3	226.3	220.9	218.3	217.0	223.3	227.6	238.3	
G47.0	230.7	230.4	221.0	216.3	211.1	211.2	222.1	224.7	230.7	
G48.0	223.4	225.2	216.2	212.0	205.9	208.4	218.1	219.2	223.4	
G49.0	218.3	218.7	210.8	206.3	198.9	204.1	212.5	214.7	218.3	
G50.0	215.8	214.4	205.4	200.0	195.8	201.3	206.1	209.1	215.8	
G51.0	210.6	209.9	200.3	195.8	188.9	192.7	198.2	203.6	210.6	
G52.0	207.4	205.1	195.0	189.6	182.9	184.9	193.1	201.0	207.4	
G53.0	211.3	199.9	189.6	184.4	178.5	182.6	191.8	193.6	211.3	
G54.0	205.2	194.6	184.1	180.4	175.7	177.1	183.4	188.7	205.2	
G55.0	191.4	188.6	178.9	174.4	171.9	174.2	176.1	183.5	191.4	
G56.0	184.4	184.0	175.4	169.6	165.8	173.6	173.7	177.4	184.4	
G57.0	178.9	179.1	170.2	164.5	157.8	159.9	169.1	171.2	178.9	
G58.0	178.4	173.2	162.8	159.1	152.5	154.9	161.5	167.5	178.4	
G59.0	177.7	167.5	159.6	153.9	147.9	153.7	159.5	162.4	177.7	
G60.0	164.4	162.5	151.9	149.2	142.5	146.1	150.6	154.4	164.4	
G61.0	156.5	156.7	148.9	143.0	136.3	137.4	147.2	151.0	156.5	
G62.0	154.3	152.4	141.2	137.6	131.4	131.4	139.7	145.0	154.3	
G63.0	155.4	147.6	135.0	131.5	126.7	127.5	133.7	138.6	155.4	
G64.0	142.5	140.3	129.3	127.1	119.8	122.5	130.7	132.9	142.5	
G65.0	135.3	134.7	126.2	121.7	115.5	115.9	124.6	128.7	135.3	
G66.0	131.9	129.6	120.8	115.1	110.1	110.3	114.8	123.5	131.9	
G67.0	125.9	125.2	115.4	110.6	103.3	104.5	109.4	116.9	125.9	
G68.0	118.3	118.7	111.0	104.5	99.1	99.3	104.1	111.3	118.3	
G69.0	111.1	113.1	105.6	99.1	93.8	94.8	98.9	105.7	111.1	
G70.0	105.0	107.9	100.2	94.1	88.1	88.6	93.4	100.5	105.0	
G71.0	99.7	102.6	93.1	89.2	82.9	83.3	88.2	94.9	99.7	
G72.0	96.9	97.2	89.6	84.0	75.5	79.1	83.0	89.7	96.9	
G73.0	89.7	91.6	84.3	78.6	72.7	74.2	77.8	84.1	89.7	

C Plane (°):0.0-360.0: 45.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 7.919 m
 Humidity: 50%
 Inspector:

Unit: cd

C Plane (°):0.0-360.0: 45.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: YAN

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 7.919 m
Humidity: 50%
Inspector: