

Report No.:

Test Time: 2021-12-08 10:47

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ADLED12W110D-2T

Lamp Catalog: 4000K

Number of Lamps: 1

Lumens per Lamp: 987.1 lm

Luminous Length (mm): 83 mm

Luminous Width (mm): 83 mm

Luminous Height (mm): 0 mm

Voltage: 230.8 V

Current: 0.055 A

Power: 11.65 W

Power Factor: 0.918

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 987.1 lm

Measurement Flux: 987.1 lm

Efficiency: 100.00%

Downward Ratio: 100.00%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 151.3, 151.1, 151.3, 151.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.3, 103.5, 103.5, 103.5

Luminaire Efficacy Rating (LER): 84.78

Central Intensity: 395.56 cd

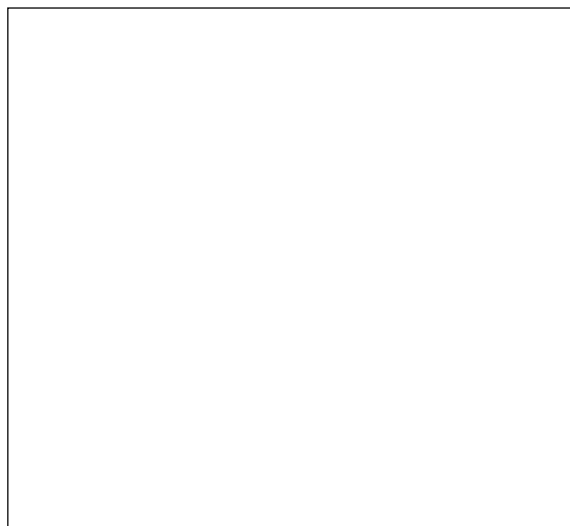
Max. Intensity: 395.89 cd

Pos of Max. Intensity: H45 V1

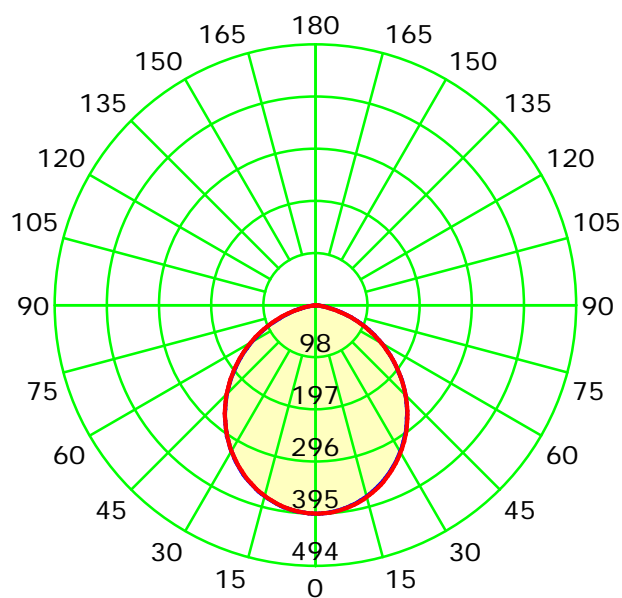
S/MH(C0/C180): 1.21

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Gamma Plane (°):0.0-90.0: 1.0

Test Lab:

Test Device: GPM-1600

Test Type: TYPE C

Distance: 7.919 m

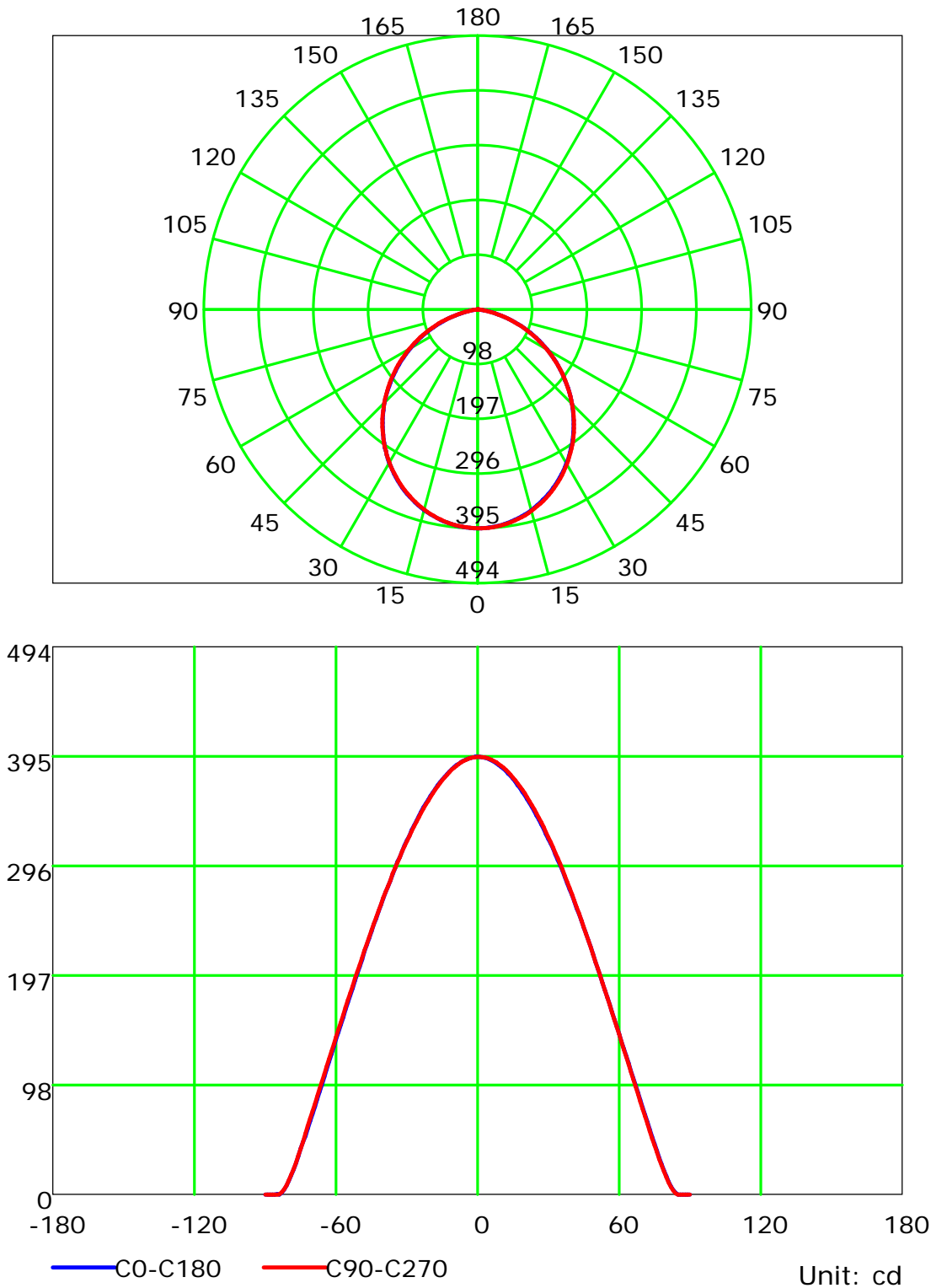
Temperature: 25°C

Humidity: 50%

Operator: YAN

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:

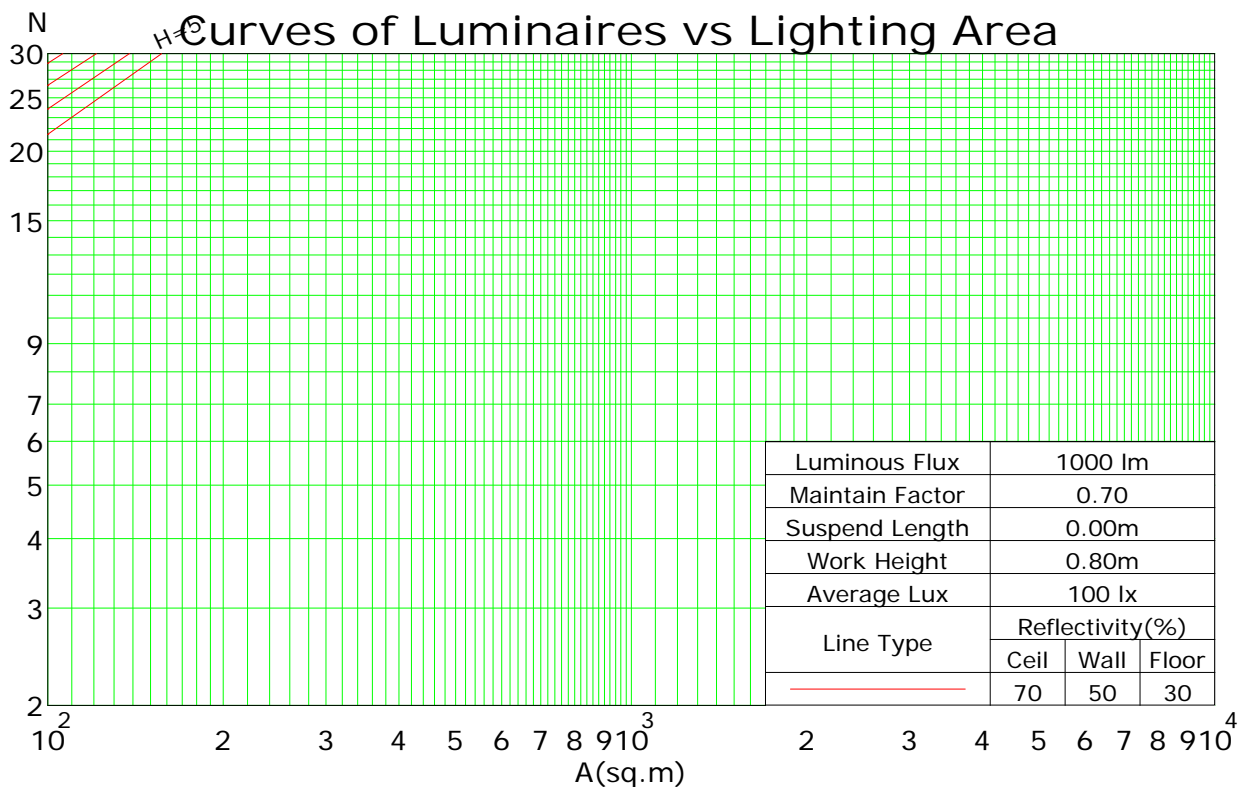
## Coefficients Of Utilization - Zonal Cavity Method

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

Spacing Criteria (0-180): 1.21

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.32



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

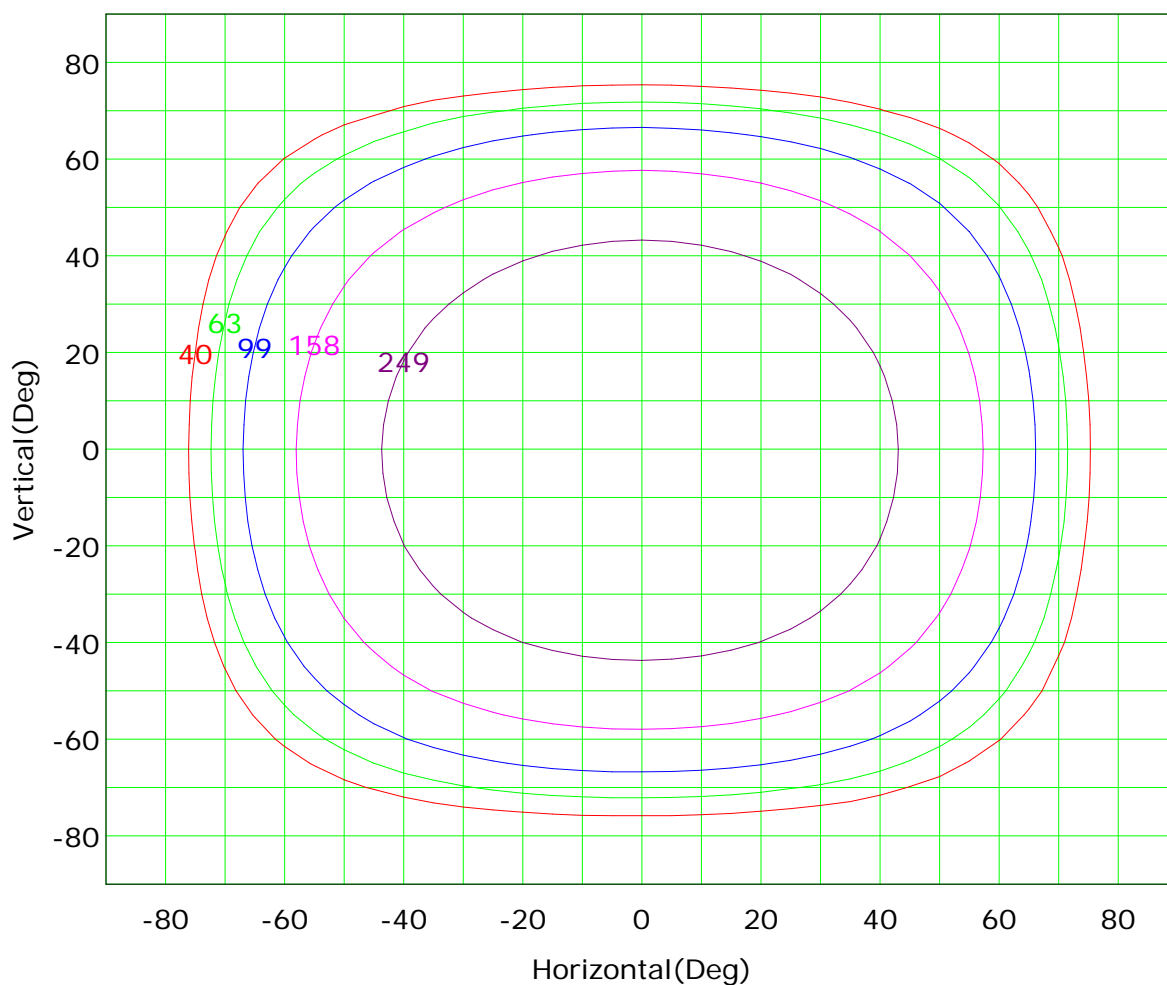
Test Device: GPM-1600

Distance: 7.919 m

Humidity: 50%

Inspector:

## Isocandela (rectangle)



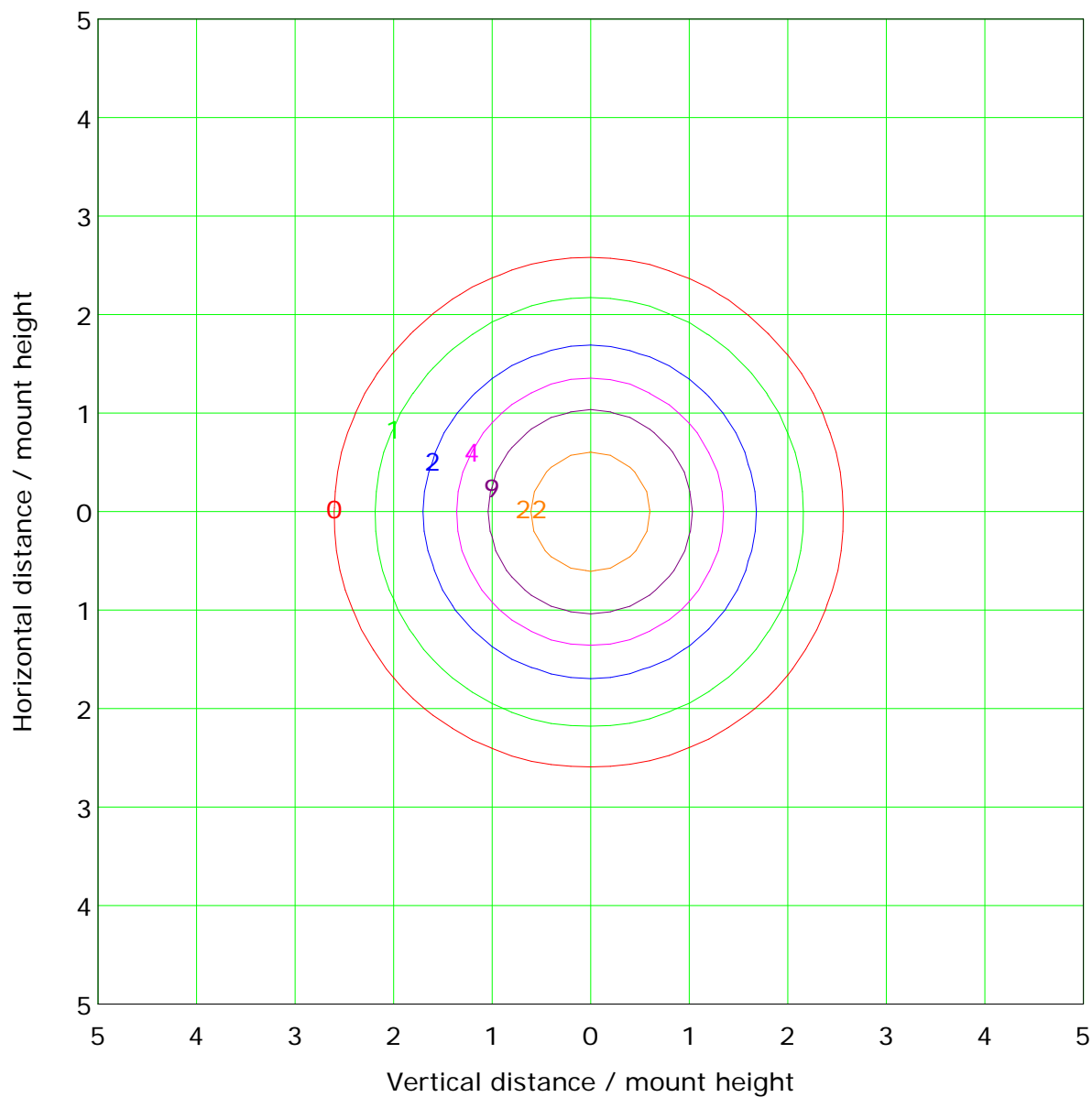
I<sub>max</sub> (100%): 396 cd

( 10%):	40 cd	( 16%):	63 cd
( 25%):	99 cd	( 40%):	158 cd
( 63%):	249 cd	(100%):	396 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%): 44.0 lx	
( 1%):	0.4 lx	( 2%):	0.9 lx
( 5%):	2.2 lx	( 10%):	4.4 lx
( 20%):	8.8 lx	( 50%):	22.0 lx
(100%):	44.0 lx		

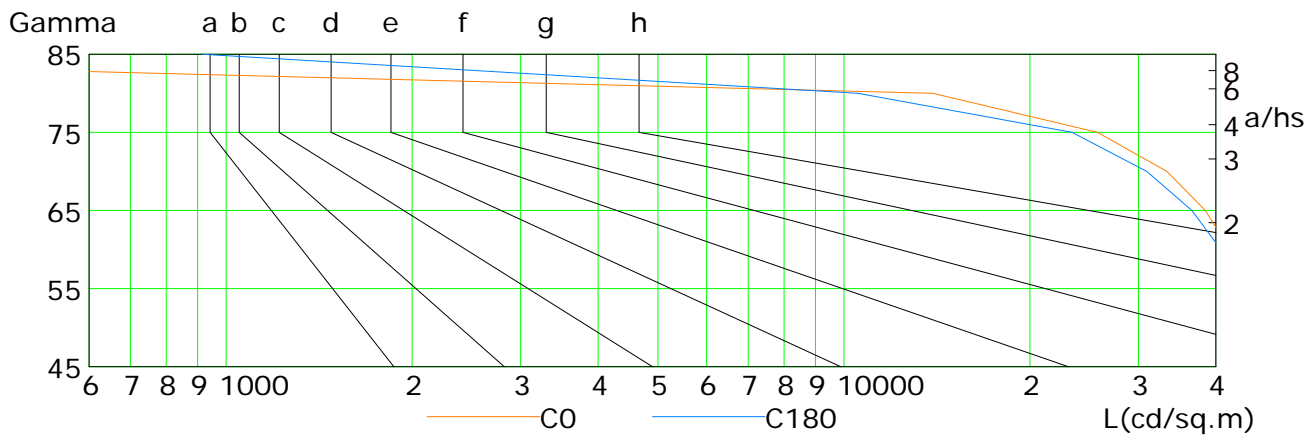
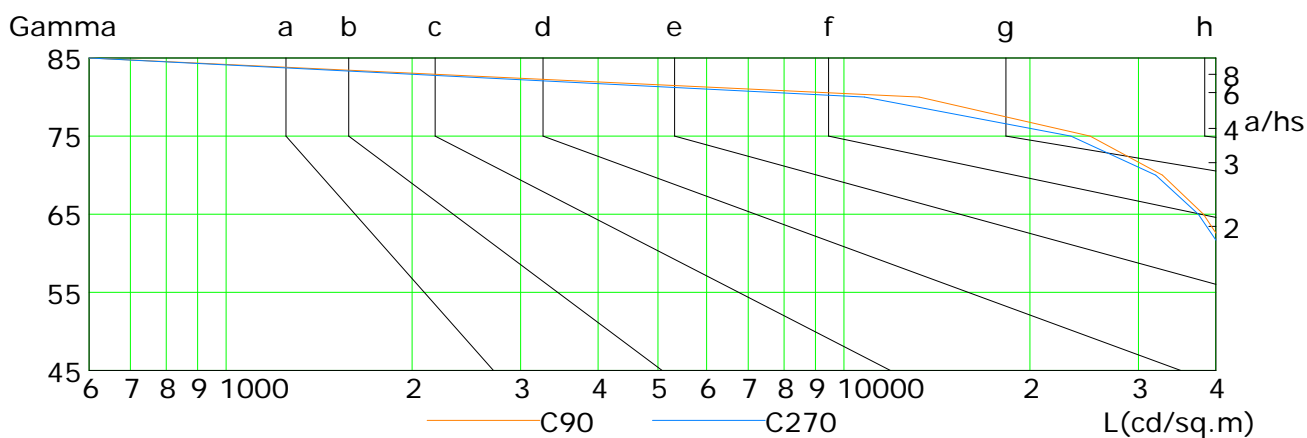
C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25°C  
Operator: YAN

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

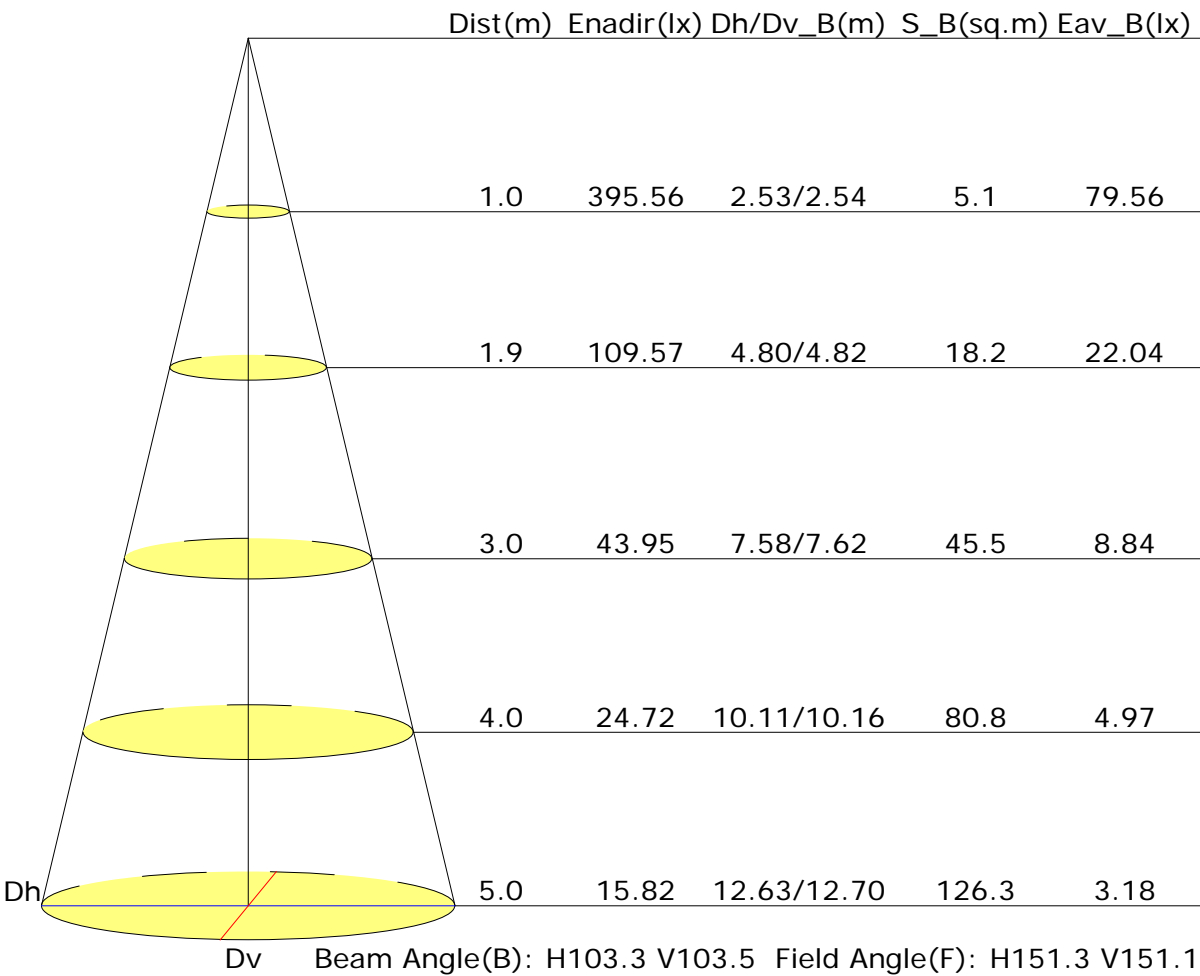


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	49634	47473	45113	42174	38462	33346	25732	13943	50
C90	49644	47496	45065	42070	38191	32807	25036	13241	0
C180	48860	46545	43982	40778	36618	30940	23427	10550	916
C270	49051	46889	44496	41382	37466	31984	23320	10800	0

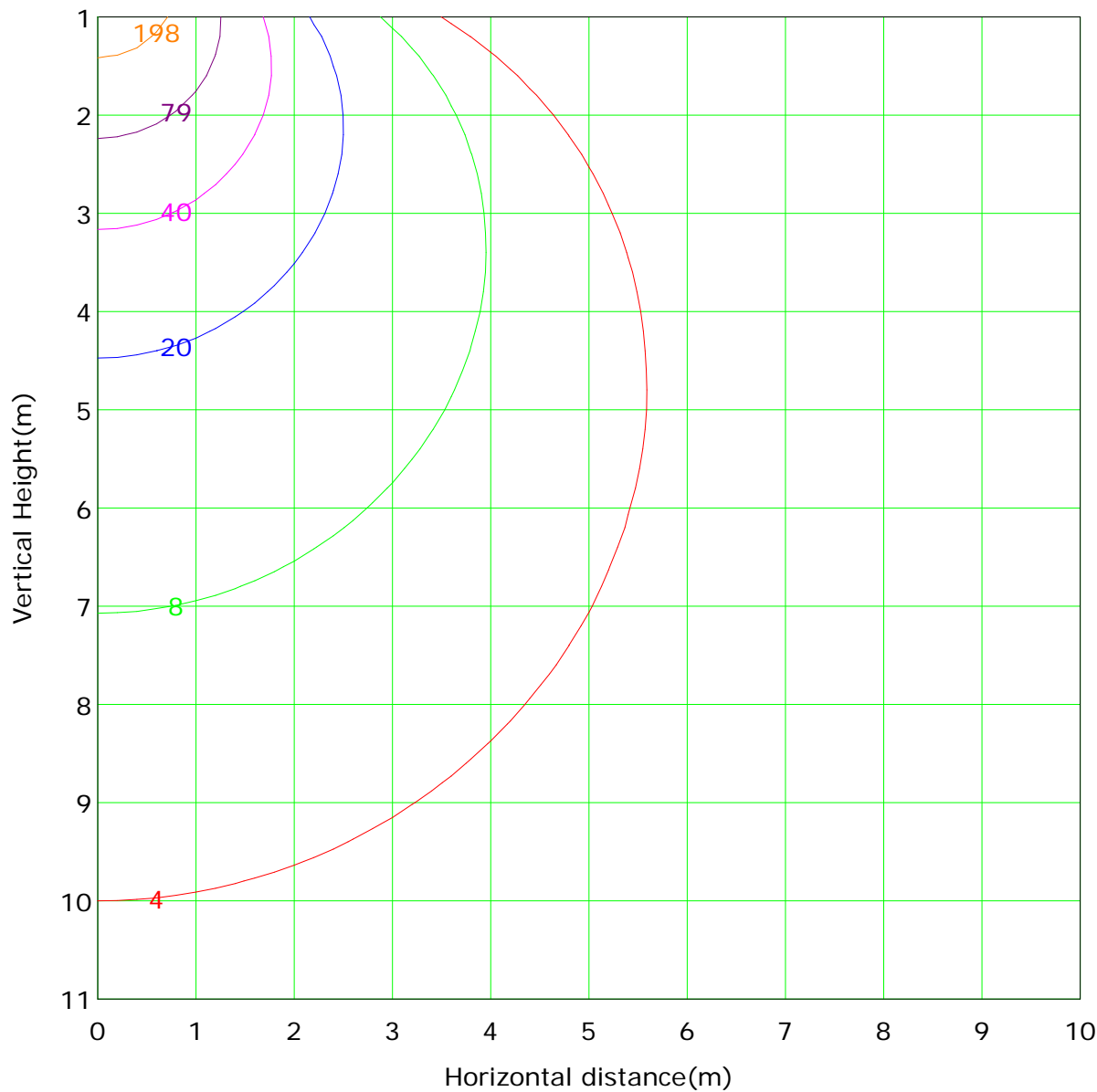
C Plane (°): 0.0-360.0: 45.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25°C  
 Operator: YAN

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

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 395.6 lx

( 1%): 4.0 lx	( 2%): 7.9 lx
( 5%): 19.8 lx	( 10%): 39.6 lx
( 20%): 79.1 lx	( 50%): 197.8 lx
(100%): 395.6 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

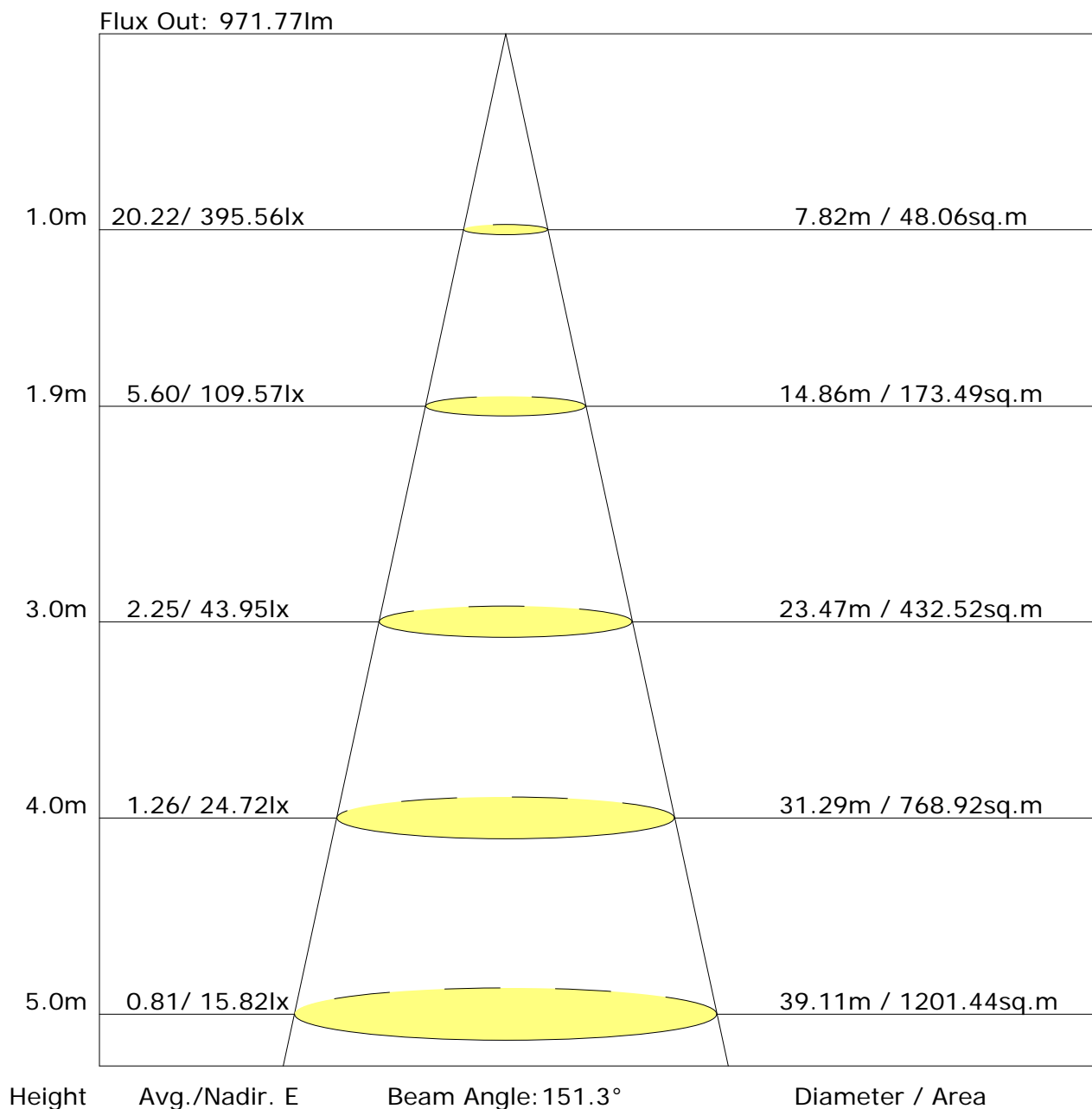
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
		Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	0.0	0.0	0.0	0.1	0.3	0.6	0.9	1.1	1.3	1.3	1.1	0.9	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.1
-70	0.0	0.0	0.2	0.6	1.2	1.9	2.5	3.0	3.3	3.3	3.0	2.5	1.9	1.2	0.7	0.2	0.0	0.0	0.0	0.1
-60	0.0	0.1	0.5	1.2	2.1	3.2	4.1	4.9	5.3	5.3	4.9	4.1	3.2	2.2	1.2	0.7	0.3	0.0	0.0	0.1
-50	0.0	0.1	0.7	1.7	3.0	4.4	5.6	6.6	7.2	7.2	6.6	5.7	4.4	3.1	1.8	0.8	0.2	0.0	0.0	0.1
-40	0.0	0.2	1.0	2.2	3.8	5.5	7.0	8.2	8.9	8.9	8.2	7.0	5.5	3.8	2.3	1.0	0.2	0.0	0.0	0.1
-30	0.0	0.3	1.2	2.6	4.4	6.3	8.1	9.5	10.2	10.2	9.5	8.1	6.4	4.5	2.7	1.2	0.3	0.0	0.0	0.1
-20	0.0	0.3	1.3	2.9	4.9	7.0	8.9	10.4	11.2	11.2	10.4	8.9	7.0	4.9	3.0	1.4	0.4	0.0	0.0	0.1
-10	0.0	0.3	1.4	3.0	5.1	7.3	9.3	10.9	11.8	11.8	10.9	9.4	7.3	5.2	3.1	1.5	0.4	0.0	0.0	0.1
0	0.0	0.4	1.4	3.0	5.1	7.3	9.4	10.9	11.8	11.8	11.0	9.4	7.4	5.2	3.1	1.5	0.4	0.0	0.0	0.1
10	0.0	0.3	1.3	2.9	4.9	7.0	9.0	10.5	11.3	11.3	10.5	9.0	7.1	5.0	3.0	1.4	0.4	0.0	0.0	0.1
20	0.0	0.3	1.2	2.7	4.5	6.4	8.3	9.6	10.3	10.3	9.6	8.3	6.5	4.5	2.7	1.3	0.3	0.0	0.0	0.1
30	0.0	0.2	1.0	2.3	3.9	5.6	7.2	8.3	9.0	9.0	8.3	7.2	5.6	3.9	2.3	1.1	0.3	0.0	0.0	0.1
40	0.0	0.2	0.8	1.8	3.1	4.5	5.8	6.8	7.3	7.3	6.8	5.8	4.6	3.2	1.9	0.8	0.2	0.0	0.0	0.1
50	0.0	0.1	0.5	1.3	2.3	3.3	4.3	5.0	5.4	5.4	4.3	3.3	2.3	1.3	0.5	0.1	0.0	0.0	0.0	0.1
60	0.0	0.0	0.2	0.7	1.3	2.0	2.6	3.1	3.3	3.4	3.1	2.7	2.0	1.4	0.7	0.3	0.0	0.0	0.0	0.1
70	0.0	0.0	0.0	0.2	0.4	0.7	1.0	1.2	1.4	1.4	1.3	1.1	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.1
80	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
90	0.1	2.8	12.7	29.2	50.3	73.0	94.1	110.2	119.1	119.1	110.4	94.4	73.7	51.1	30.1	13.5	3.2	0.1	0.1	0.1
Flux(E)	0.0	1.5	11.7	28.3	49.4	72.1	93.2	109.3	118.2	118.2	109.5	93.5	72.8	50.3	29.2	12.5	1.9	0.0	0.0	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:

## 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	25.8	27.1	26.1	27.4	27.6	25.8	27.1	26.1	27.3	27.6
3H	27.0	28.2	27.4	28.5	28.8	27.0	28.2	27.3	28.4	28.7
4H	27.4	28.5	27.7	28.8	29.1	27.3	28.4	27.6	28.7	29.0
6H	27.5	28.6	27.9	28.9	29.2	27.4	28.4	27.7	28.7	29.1
8H	27.5	28.5	27.9	28.8	29.1	27.4	28.4	27.7	28.7	29.0
12H	27.5	28.4	27.8	28.7	29.1	27.3	28.3	27.7	28.6	29.0
X=4H Y=2H	26.4	27.5	26.7	27.8	28.1	26.4	27.5	26.7	27.8	28.1
3H	27.8	28.7	28.1	29.1	29.4	27.7	28.7	28.1	29.0	29.3
4H	28.2	29.1	28.6	29.4	29.8	28.1	29.0	28.5	29.3	29.7
6H	28.4	29.1	28.8	29.5	29.9	28.3	29.0	28.7	29.4	29.8
8H	28.4	29.1	28.8	29.5	29.9	28.2	28.9	28.7	29.3	29.8
12H	28.3	29.0	28.8	29.4	29.8	28.2	28.8	28.7	29.2	29.7
X=8H Y=4H	28.3	29.0	28.8	29.4	29.9	28.3	29.0	28.7	29.4	29.8
6H	28.6	29.1	29.0	29.5	30.0	28.4	29.0	28.9	29.4	29.9
8H	28.6	29.0	29.0	29.5	30.0	28.4	28.9	28.9	29.4	29.9
12H	28.5	28.9	29.0	29.4	29.9	28.4	28.8	28.9	29.3	29.8
X=12H Y=4H	28.3	28.9	28.8	29.4	29.8	28.2	28.9	28.7	29.3	29.7
6H	28.5	29.0	29.0	29.5	30.0	28.4	28.9	28.9	29.4	29.9
8H	28.5	29.0	29.0	29.4	29.9	28.4	28.8	28.9	29.3	29.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.6					+0.4/-0.6				
S=2.0H	+0.7/-1.1					+0.7/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 987lm ( $8\log(F/F_0) = -0.0$ ).

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	0.64	0.72	0.80	0.85	0.91	0.96	0.99	1.03	1.06
	0.30		0.57	0.65	0.73	0.78	0.86	0.91	0.95	1.00	1.03
	0.20		0.52	0.60	0.68	0.74	0.82	0.87	0.91	0.96	1.00
0.50	0.50	0.20	0.62	0.70	0.77	0.82	0.88	0.93	0.95	0.99	1.02
	0.30		0.56	0.64	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.20		0.51	0.59	0.67	0.72	0.80	0.85	0.89	0.94	0.97
0.30	0.50	0.20	0.61	0.68	0.75	0.80	0.86	0.89	0.92	0.96	0.98
	0.30		0.55	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.96
	0.20		0.51	0.59	0.66	0.71	0.78	0.83	0.87	0.91	0.94
0.00	0.00	0.00	0.49	0.56	0.64	0.68	0.75	0.80	0.83	0.87	0.89
<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	0.89	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.18
	0.30		0.74	0.64	0.54	0.48	0.38	0.32	0.27	0.21	0.17
	0.20		0.64	0.56	0.48	0.43	0.35	0.30	0.25	0.20	0.17
0.50	0.50	0.20	0.86	0.71	0.60	0.51	0.40	0.37	0.28	0.21	0.17
	0.30		0.72	0.62	0.53	0.46	0.37	0.31	0.26	0.20	0.16
	0.20		0.63	0.55	0.47	0.42	0.34	0.28	0.25	0.19	0.16
0.30	0.50	0.20	0.83	0.69	0.57	0.49	0.38	0.31	0.27	0.20	0.16
	0.30		0.71	0.60	0.51	0.44	0.35	0.29	0.25	0.19	0.16
	0.20		0.62	0.54	0.46	0.41	0.33	0.28	0.24	0.18	0.15
0.00	0.00	0.00	0.51	0.44	0.37	0.32	0.25	0.21	0.17	0.13	0.11
<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	0.15	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	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.14	0.16	0.16	0.17	0.18	0.18	0.19	0.19	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	0.13	0.14	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	395.6	0.4	0.4	0.04	0.04
1.0-2.0	395.4	1.1	1.5	0.11	0.15
2.0-3.0	395.0	1.9	3.4	0.19	0.34
3.0-4.0	394.5	2.6	6.0	0.27	0.61
4.0-5.0	393.8	3.4	9.4	0.34	0.96
5.0-6.0	392.9	4.1	13.6	0.42	1.37
6.0-7.0	391.8	4.9	18.4	0.49	1.87
7.0-8.0	390.5	5.6	24.0	0.57	2.43
8.0-9.0	389.1	6.3	30.3	0.64	3.07
9.0-10.0	387.5	7.0	37.3	0.71	3.78
10.0-11.0	385.7	7.7	45.0	0.78	4.56
11.0-12.0	383.7	8.4	53.4	0.85	5.41
12.0-13.0	381.6	9.1	62.5	0.92	6.33
13.0-14.0	379.3	9.7	72.2	0.98	7.31
14.0-15.0	376.9	10.3	82.5	1.05	8.36
15.0-16.0	374.3	11.0	93.5	1.11	9.47
16.0-17.0	371.5	11.6	105.1	1.17	10.65
17.0-18.0	368.7	12.2	117.2	1.23	11.88
18.0-19.0	365.6	12.7	130.0	1.29	13.17
19.0-20.0	362.4	13.3	143.2	1.34	14.51
20.0-21.0	359.1	13.8	157.0	1.40	15.91
21.0-22.0	355.6	14.3	171.3	1.45	17.36
22.0-23.0	352.1	14.8	186.1	1.50	18.85
23.0-24.0	348.3	15.2	201.3	1.54	20.40
24.0-25.0	344.5	15.7	217.0	1.59	21.98
25.0-26.0	340.5	16.1	233.1	1.63	23.61
26.0-27.0	336.4	16.5	249.5	1.67	25.28
27.0-28.0	332.1	16.8	266.3	1.70	26.98
28.0-29.0	327.7	17.1	283.5	1.74	28.72
29.0-30.0	323.3	17.5	300.9	1.77	30.49
30.0-31.0	318.8	17.7	318.7	1.80	32.29
31.0-32.0	314.1	18.0	336.7	1.82	34.11
32.0-33.0	309.2	18.2	354.9	1.85	35.95
33.0-34.0	304.3	18.4	373.3	1.87	37.82
34.0-35.0	299.3	18.6	391.9	1.88	39.70
35.0-36.0	294.1	18.7	410.6	1.90	41.60

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	288.7	18.8	429.5	1.91	43.51
37.0-38.0	283.2	18.9	448.4	1.92	45.42
38.0-39.0	277.8	19.0	467.3	1.92	47.34
39.0-40.0	272.3	19.0	486.3	1.92	49.27
40.0-41.0	266.7	19.0	505.3	1.92	51.19
41.0-42.0	260.8	19.0	524.3	1.92	53.11
42.0-43.0	254.9	18.9	543.2	1.91	55.03
43.0-44.0	249.1	18.8	562.0	1.90	56.93
44.0-45.0	243.1	18.7	580.7	1.89	58.82
45.0-46.0	237.1	18.5	599.2	1.88	60.70
46.0-47.0	230.9	18.4	617.6	1.86	62.56
47.0-48.0	224.7	18.2	635.7	1.84	64.40
48.0-49.0	218.5	17.9	653.7	1.82	66.22
49.0-50.0	212.1	17.7	671.4	1.79	68.01
50.0-51.0	205.6	17.4	688.8	1.76	69.78
51.0-52.0	199.3	17.1	705.9	1.73	71.51
52.0-53.0	192.9	16.8	722.7	1.70	73.21
53.0-54.0	186.4	16.4	739.1	1.66	74.87
54.0-55.0	179.8	16.1	755.1	1.63	76.50
55.0-56.0	173.3	15.7	770.8	1.59	78.09
56.0-57.0	166.7	15.2	786.0	1.54	79.63
57.0-58.0	160.1	14.8	800.8	1.50	81.13
58.0-59.0	153.4	14.3	815.2	1.45	82.58
59.0-60.0	146.7	13.9	829.1	1.40	83.99
60.0-61.0	140.1	13.4	842.4	1.35	85.34
61.0-62.0	133.4	12.9	855.3	1.30	86.65
62.0-63.0	126.7	12.3	867.6	1.25	87.89
63.0-64.0	119.9	11.8	879.4	1.19	89.09
64.0-65.0	113.2	11.2	890.6	1.14	90.22
65.0-66.0	106.5	10.6	901.2	1.08	91.30
66.0-67.0	99.7	10.0	911.2	1.02	92.32
67.0-68.0	93.0	9.4	920.7	0.95	93.27
68.0-69.0	86.3	8.8	929.5	0.89	94.16
69.0-70.0	79.6	8.2	937.6	0.83	94.99
70.0-71.0	72.9	7.5	945.2	0.76	95.75
71.0-72.0	66.2	6.9	952.1	0.70	96.45

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	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	
G1.0	395.6	395.9	395.5	395.7	395.6	395.7	395.2	395.3	395.6	
G2.0	395.2	395.5	395.4	395.5	394.9	395.2	395.0	395.0	395.2	
G3.0	394.9	395.5	395.1	395.0	394.6	394.8	394.5	394.4	394.9	
G4.0	394.2	394.8	394.5	394.5	393.8	394.0	393.8	393.6	394.2	
G5.0	393.2	394.2	393.7	394.0	393.1	393.1	392.9	392.8	393.2	
G6.0	392.3	393.5	392.8	393.2	392.2	391.9	391.8	391.6	392.3	
G7.0	391.2	392.4	391.6	392.0	390.9	390.7	390.7	390.6	391.2	
G8.0	389.7	390.9	390.5	390.5	389.3	389.2	389.3	388.8	389.7	
G9.0	388.1	389.8	389.0	389.3	388.3	387.4	387.5	387.3	388.1	
G10.0	386.5	388.3	387.6	387.9	386.2	385.8	385.6	385.5	386.5	
G11.0	384.8	386.3	385.7	385.8	384.3	383.8	384.0	383.5	384.8	
G12.0	382.8	384.1	383.9	384.1	382.1	381.6	381.5	381.5	382.8	
G13.0	380.5	381.9	381.8	381.8	379.8	379.4	379.4	379.1	380.5	
G14.0	378.4	379.6	379.5	379.6	377.4	377.1	376.9	376.7	378.4	
G15.0	375.7	377.5	376.9	377.2	375.1	374.3	374.5	374.1	375.7	
G16.0	373.0	374.7	374.2	374.7	372.3	371.4	371.6	371.3	373.0	
G17.0	370.0	372.0	371.5	371.6	369.9	368.5	369.0	368.4	370.0	
G18.0	367.4	369.2	368.7	368.9	366.6	365.5	365.9	365.5	367.4	
G19.0	363.9	366.4	365.8	365.8	363.3	362.3	362.5	362.1	363.9	
G20.0	361.0	363.1	362.5	362.5	360.1	358.9	359.1	359.0	361.0	
G21.0	357.5	359.5	359.2	359.5	356.7	355.3	355.8	355.3	357.5	
G22.0	354.1	356.0	355.6	355.9	353.4	351.8	352.6	351.7	354.1	
G23.0	350.5	352.2	351.9	352.3	349.9	348.4	348.8	348.1	350.5	
G24.0	346.6	348.7	348.1	348.4	345.8	344.4	344.8	344.1	346.6	
G25.0	342.6	344.8	344.6	344.6	341.9	340.5	340.9	340.4	342.6	
G26.0	338.9	341.0	340.4	340.9	337.4	336.5	336.8	336.0	338.9	
G27.0	334.7	336.7	336.5	336.7	333.3	332.0	332.5	332.0	334.7	
G28.0	330.3	332.3	332.1	332.3	329.1	327.8	328.3	327.4	330.3	
G29.0	325.8	328.2	327.4	327.8	324.1	323.4	323.9	323.1	325.8	
G30.0	321.3	323.8	322.8	323.7	320.2	318.7	319.5	318.4	321.3	
G31.0	317.3	319.4	318.4	319.1	315.4	314.0	314.8	313.7	317.3	
G32.0	312.5	314.5	313.6	314.4	310.1	309.0	310.1	309.0	312.5	
G33.0	307.5	309.5	308.8	309.3	305.2	304.2	305.0	304.0	307.5	
G34.0	302.5	304.9	304.0	304.2	300.9	299.1	300.1	299.1	302.5	
G35.0	297.8	299.7	299.0	299.2	294.9	294.2	295.2	293.9	297.8	
G36.0	292.6	294.4	293.7	294.3	289.5	288.9	290.2	288.5	292.6	

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	287.3	288.9	288.2	288.5	283.8	283.2	284.2	283.3	287.3	
G38.0	281.5	284.1	282.7	282.9	278.5	277.6	278.8	277.7	281.5	
G39.0	275.9	278.3	277.0	278.0	273.4	272.1	273.7	272.2	275.9	
G40.0	270.7	272.9	271.5	272.0	267.6	266.7	268.3	266.6	270.7	
G41.0	265.3	267.1	265.8	266.4	261.9	260.6	262.5	260.8	265.3	
G42.0	258.8	261.4	259.6	260.8	256.1	254.8	256.5	255.1	258.8	
G43.0	253.7	255.4	254.1	254.7	249.6	248.9	250.5	249.1	253.7	
G44.0	247.5	250.0	247.9	248.8	244.2	242.8	244.7	243.3	247.5	
G45.0	241.8	243.6	241.8	242.4	238.0	236.6	238.9	237.2	241.8	
G46.0	235.8	237.4	235.6	236.9	231.8	230.6	232.6	231.9	235.8	
G47.0	229.6	231.2	229.6	230.4	225.5	224.4	226.3	225.7	229.6	
G48.0	223.5	225.3	223.3	224.1	219.6	218.1	220.4	218.7	223.5	
G49.0	217.4	219.1	217.1	217.6	212.4	211.7	214.1	213.4	217.4	
G50.0	210.2	212.4	210.3	211.4	206.1	205.5	207.6	207.0	210.2	
G51.0	203.9	206.3	204.2	204.9	199.9	199.0	201.5	199.9	203.9	
G52.0	197.6	200.3	197.6	198.8	193.2	192.4	195.1	194.5	197.6	
G53.0	191.2	193.8	191.1	192.3	186.6	186.0	188.5	188.2	191.2	
G54.0	184.6	186.9	184.7	185.4	180.3	179.5	182.2	180.7	184.6	
G55.0	178.3	180.4	178.1	179.1	173.8	173.1	175.8	174.1	178.3	
G56.0	171.7	174.1	171.4	172.6	167.2	166.3	169.0	167.6	171.7	
G57.0	165.3	167.5	165.0	166.1	160.4	159.8	162.5	161.0	165.3	
G58.0	158.7	161.2	158.1	159.6	153.6	153.0	155.7	154.2	158.7	
G59.0	152.0	154.2	151.6	152.6	146.8	146.3	149.3	147.8	152.0	
G60.0	145.3	147.7	144.9	145.7	140.5	139.5	142.5	141.0	145.3	
G61.0	138.7	141.3	138.2	139.6	133.6	133.0	135.8	134.3	138.7	
G62.0	132.0	134.3	131.2	132.8	126.9	126.1	129.3	127.7	132.0	
G63.0	125.4	127.5	124.7	126.1	120.1	119.3	122.5	120.9	125.4	
G64.0	118.8	121.2	117.8	119.6	113.2	112.5	115.6	114.0	118.8	
G65.0	112.0	114.2	111.2	112.8	106.6	105.8	109.1	107.4	112.0	
G66.0	105.4	107.6	104.4	105.7	99.7	99.0	102.3	100.5	105.4	
G67.0	98.8	101.0	97.6	99.0	93.0	92.1	95.6	93.9	98.8	
G68.0	91.9	94.1	90.8	92.3	86.2	85.4	88.7	87.3	91.9	
G69.0	85.6	87.6	84.2	85.7	79.6	78.8	82.0	80.4	85.6	
G70.0	78.6	80.8	77.3	79.0	72.9	72.1	75.4	73.8	78.6	
G71.0	72.1	74.2	70.7	72.6	66.3	65.3	68.8	66.8	72.1	
G72.0	65.5	67.5	64.1	64.6	59.6	59.0	61.9	60.4	65.5	
G73.0	59.0	61.0	57.7	59.2	53.1	52.2	55.5	54.9	59.0	

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:

## 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: