

Report No.:

Test Time: 2022-01-05 09:52

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ADL20W192

Number of Lamps: 1

Luminous Length (mm): 158 mm

Luminous Height (mm): 0 mm

Current: 0.090 A

Power Factor: 0.967

Lamp Catalog: 4000K

Lumens per Lamp: 2298.2 lm

Luminous Width (mm): 158 mm

Voltage: 230.3 V

Power: 20.02 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 2298.2 lm

Downward Ratio: 100.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.0, 145.0, 144.9, 145.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 92.2, 92.1, 92.1, 92.1

Luminaire Efficacy Rating (LER): 114.84

Max. Intensity: 1057.07 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 2298.2 lm

Efficiency: 100.00%

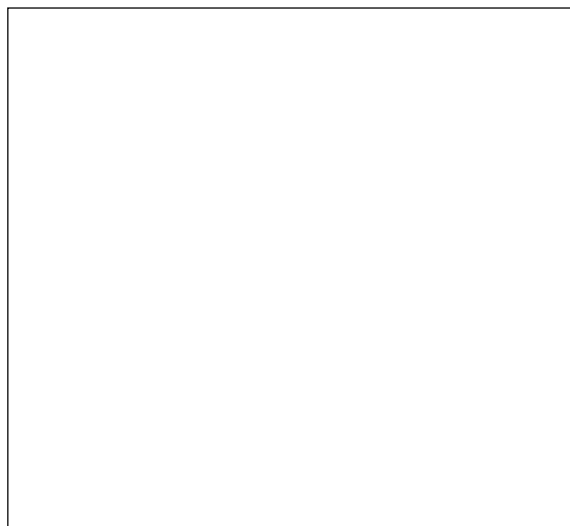
Upward Ratio: 0.00%

Central Intensity: 1056.92 cd

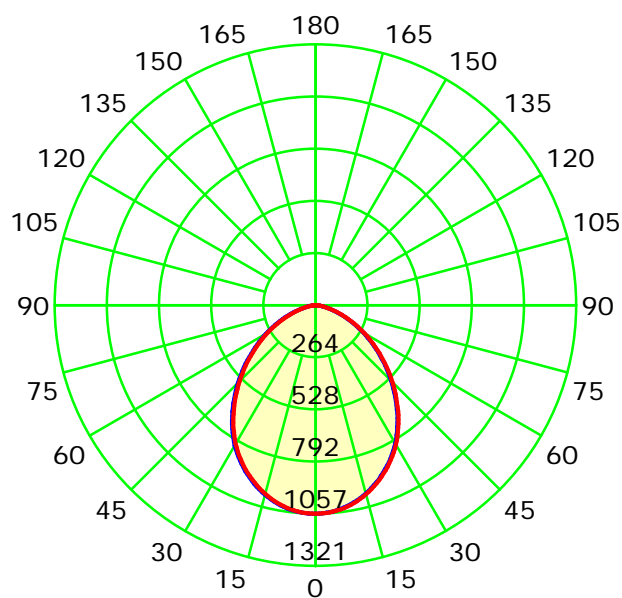
Pos of Max. Intensity: H135 V1

S/MH(C90/C270): 1.15

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

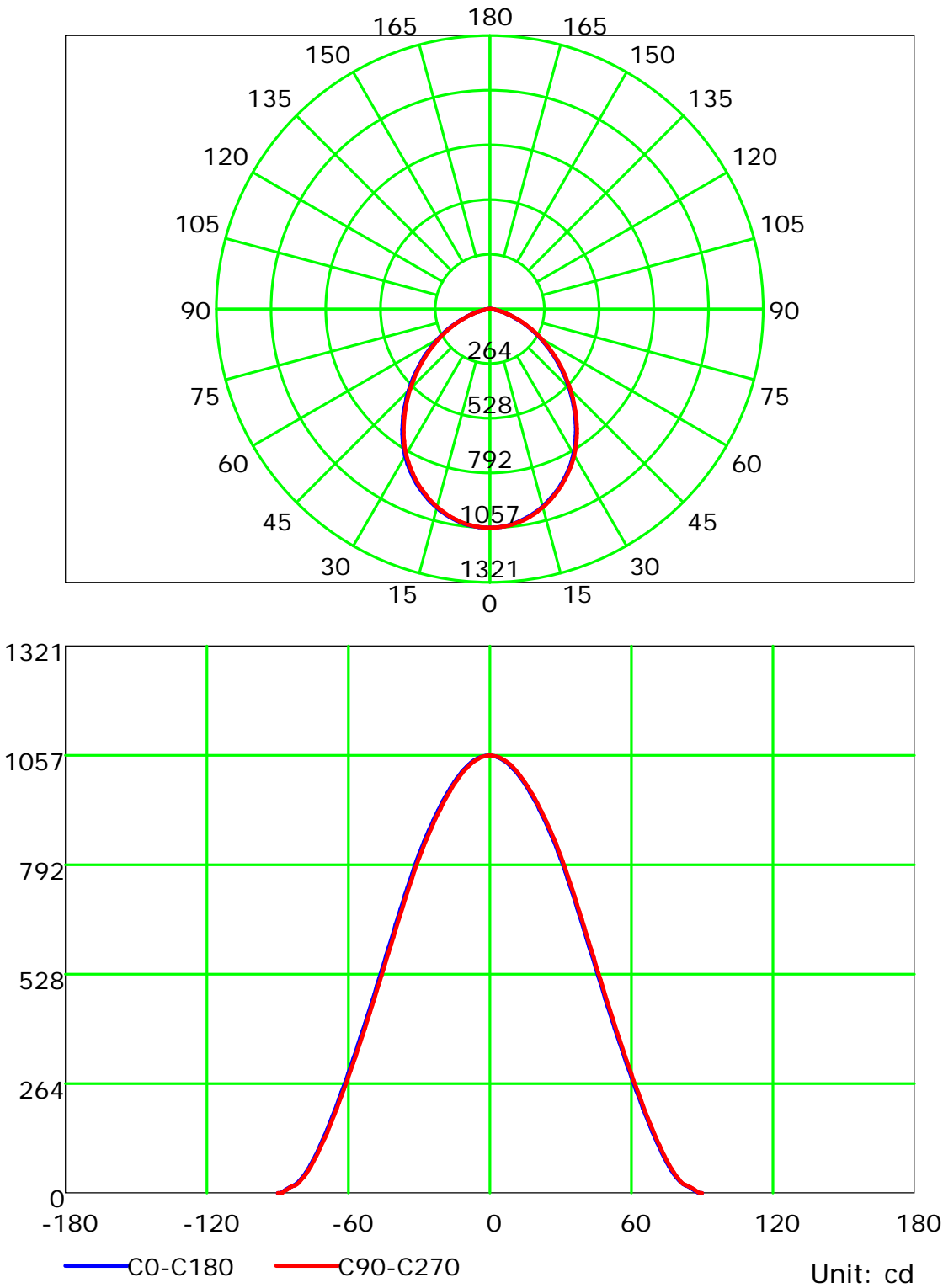
Test Device: GPM-1600

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:

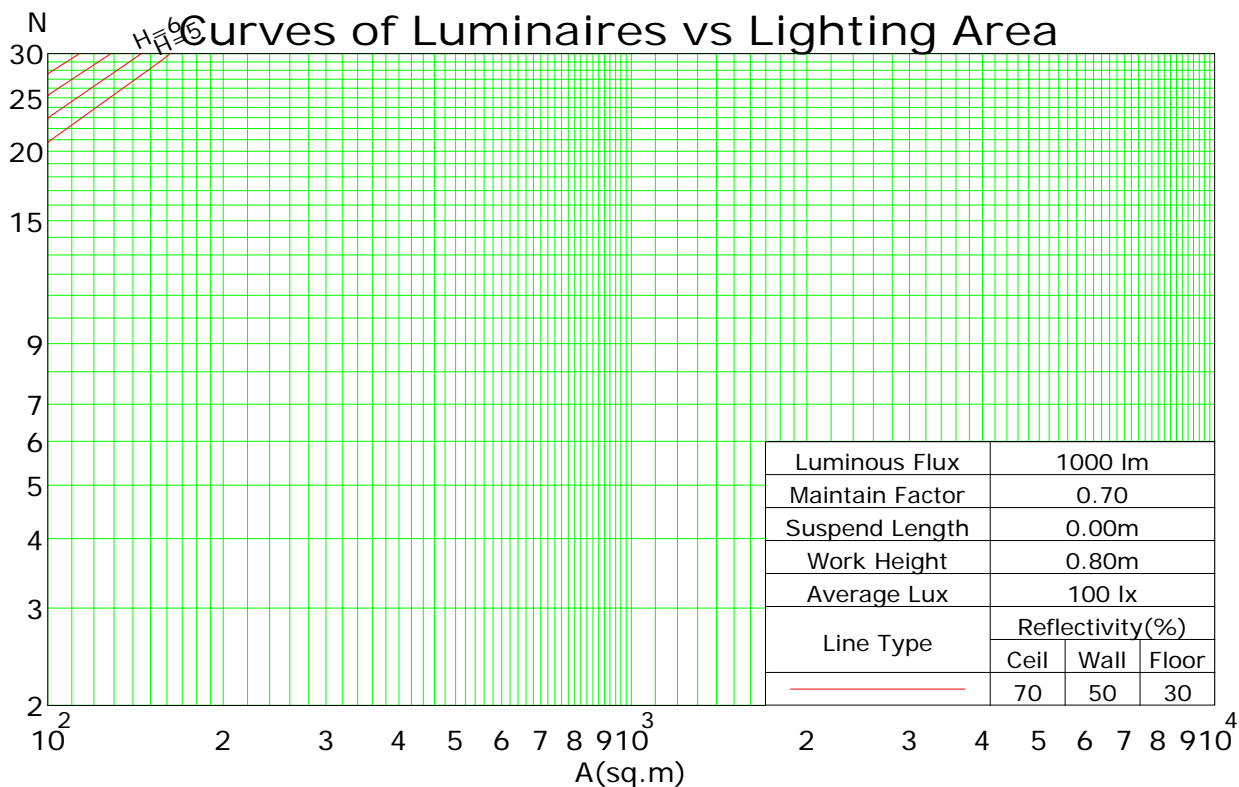
## Coefficients Of Utilization - Zonal Cavity Method

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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	58	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

Spacing Criteria (0-180): 1.16

Spacing Criteria (90-270): 1.15

Spacing Criteria (Diagonal): 1.24



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

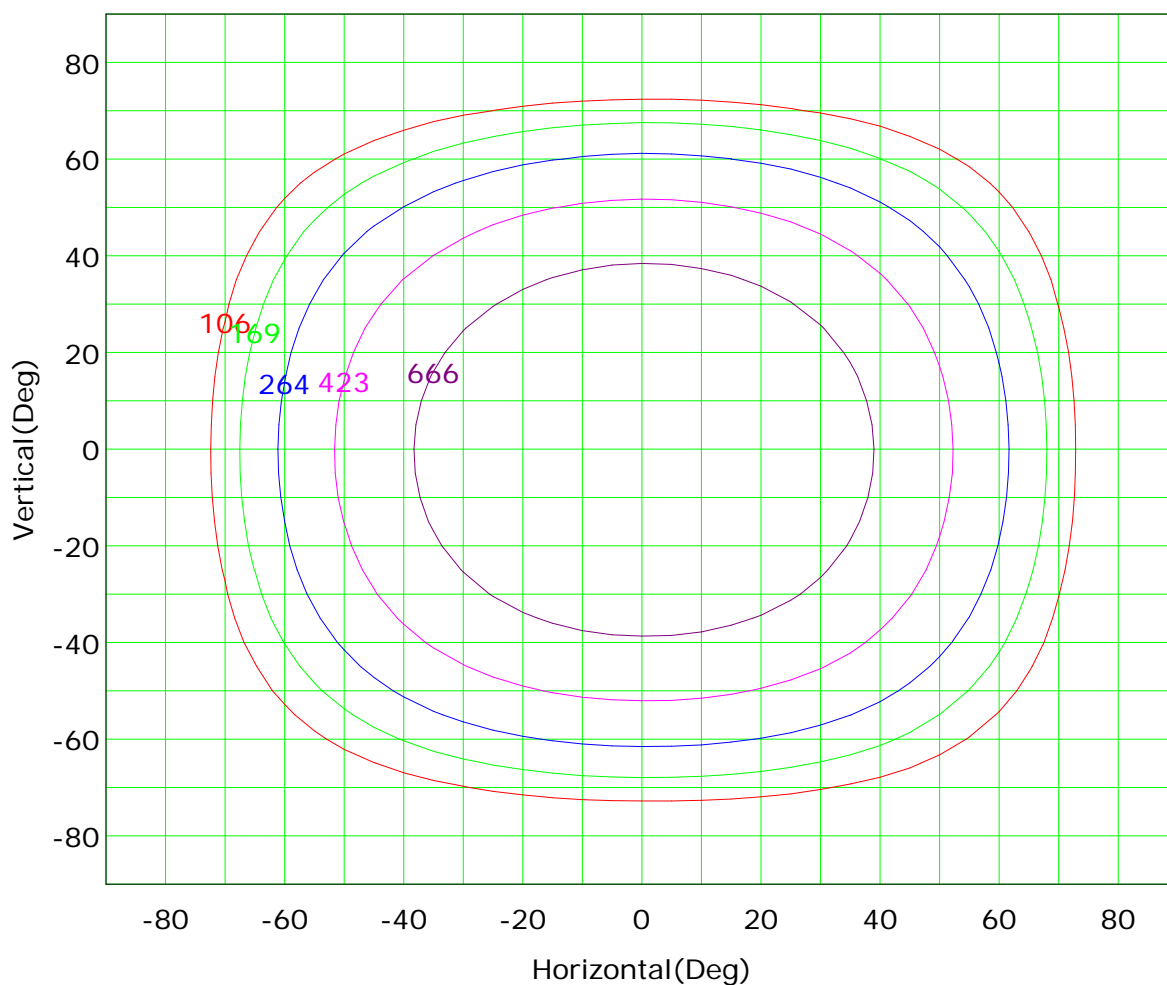
Test Device: GPM-1600

Distance: 7.919 m

Humidity: 50%

Inspector:

## Isocandela (rectangle)



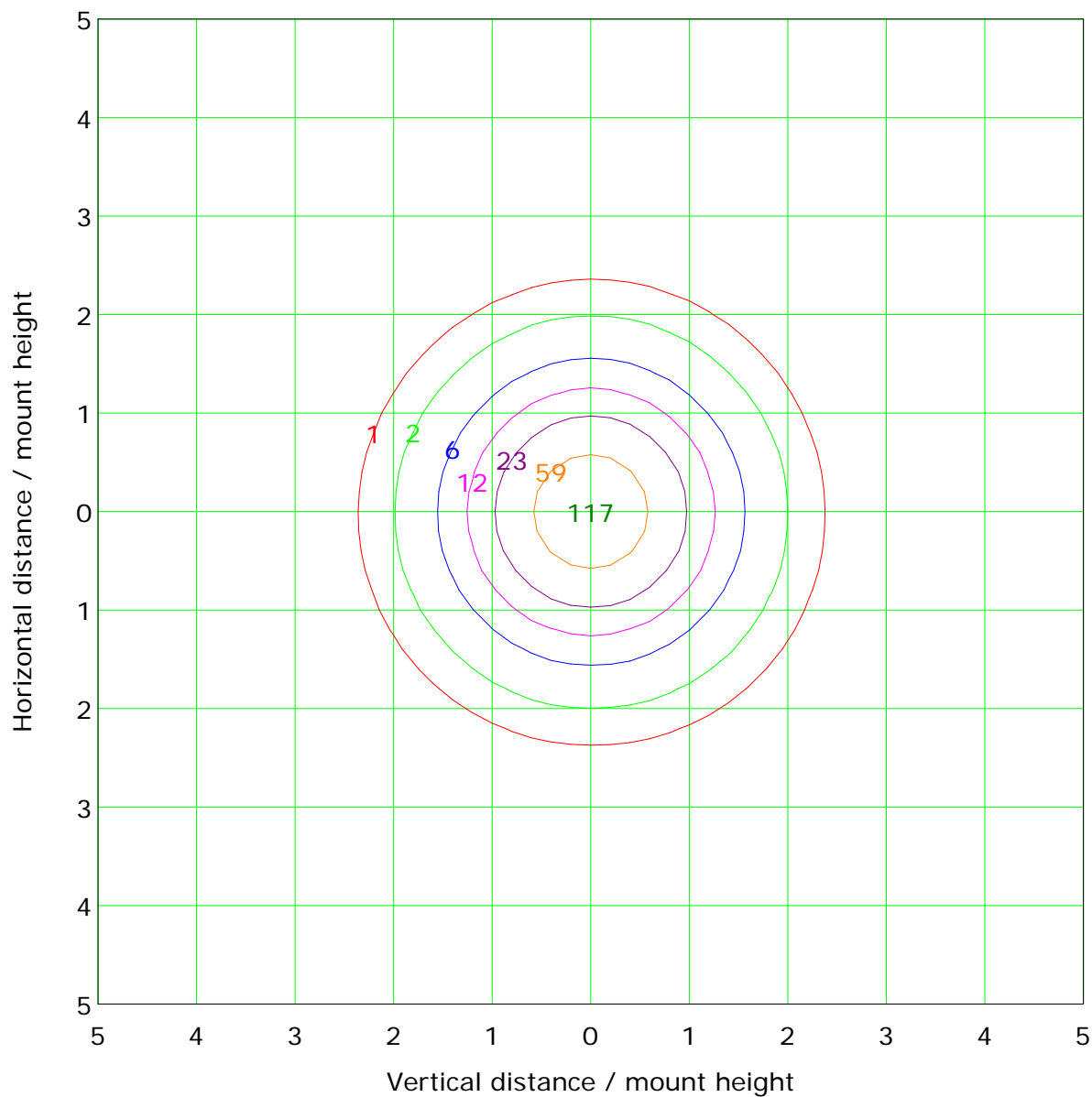
Imax (100%): 1057 cd

( 10%): 106 cd	( 16%): 169 cd
( 25%): 264 cd	( 40%): 423 cd
( 63%): 666 cd	(100%): 1057 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%): 117.4 lx	
( 1%):	1.2 lx	( 2%):	2.3 lx
( 5%):	5.9 lx	( 10%):	11.7 lx
( 20%):	23.5 lx	( 50%):	58.7 lx
(100%):	117.4 lx		

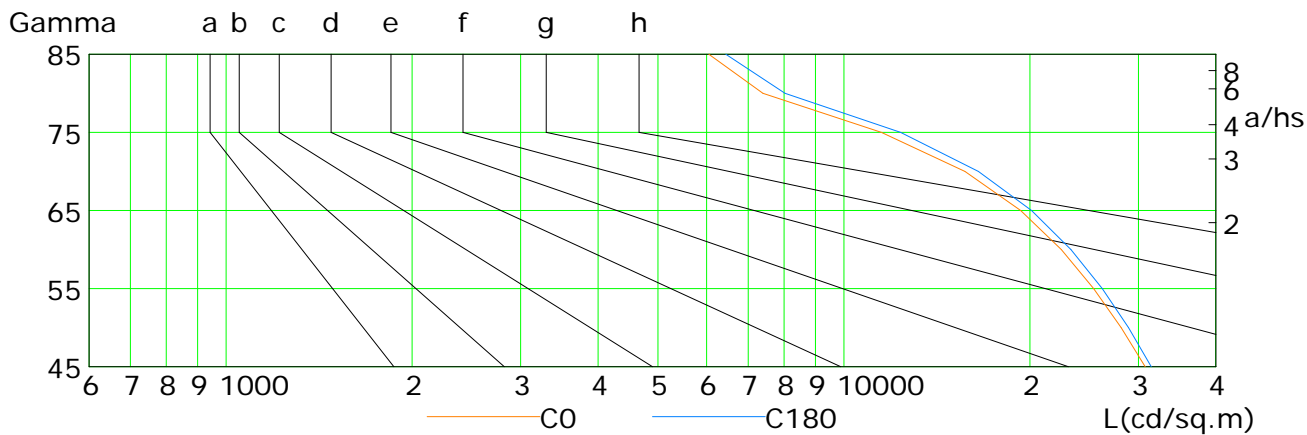
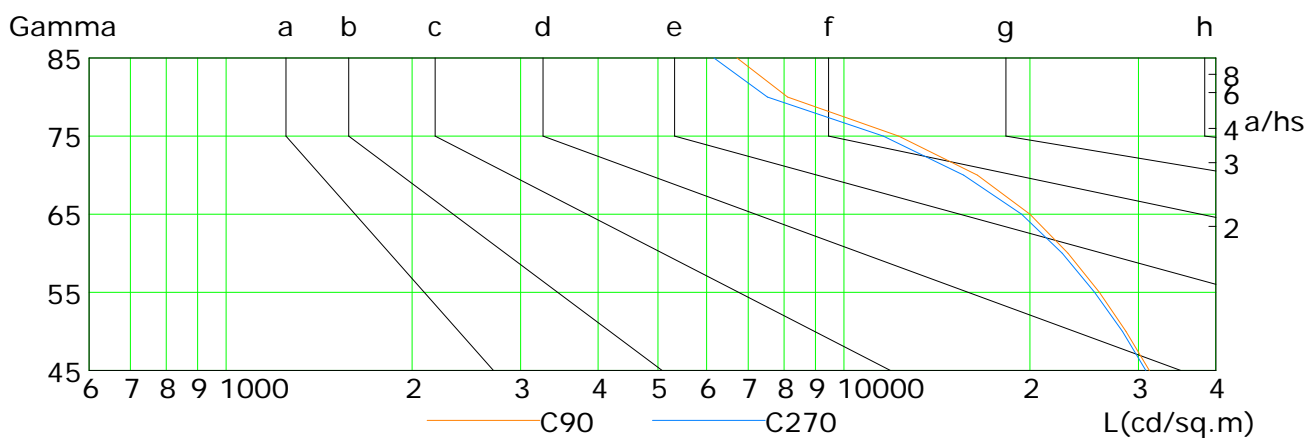
C Plane (°):0.0-360.0: 45.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25°C  
Operator: YAN

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

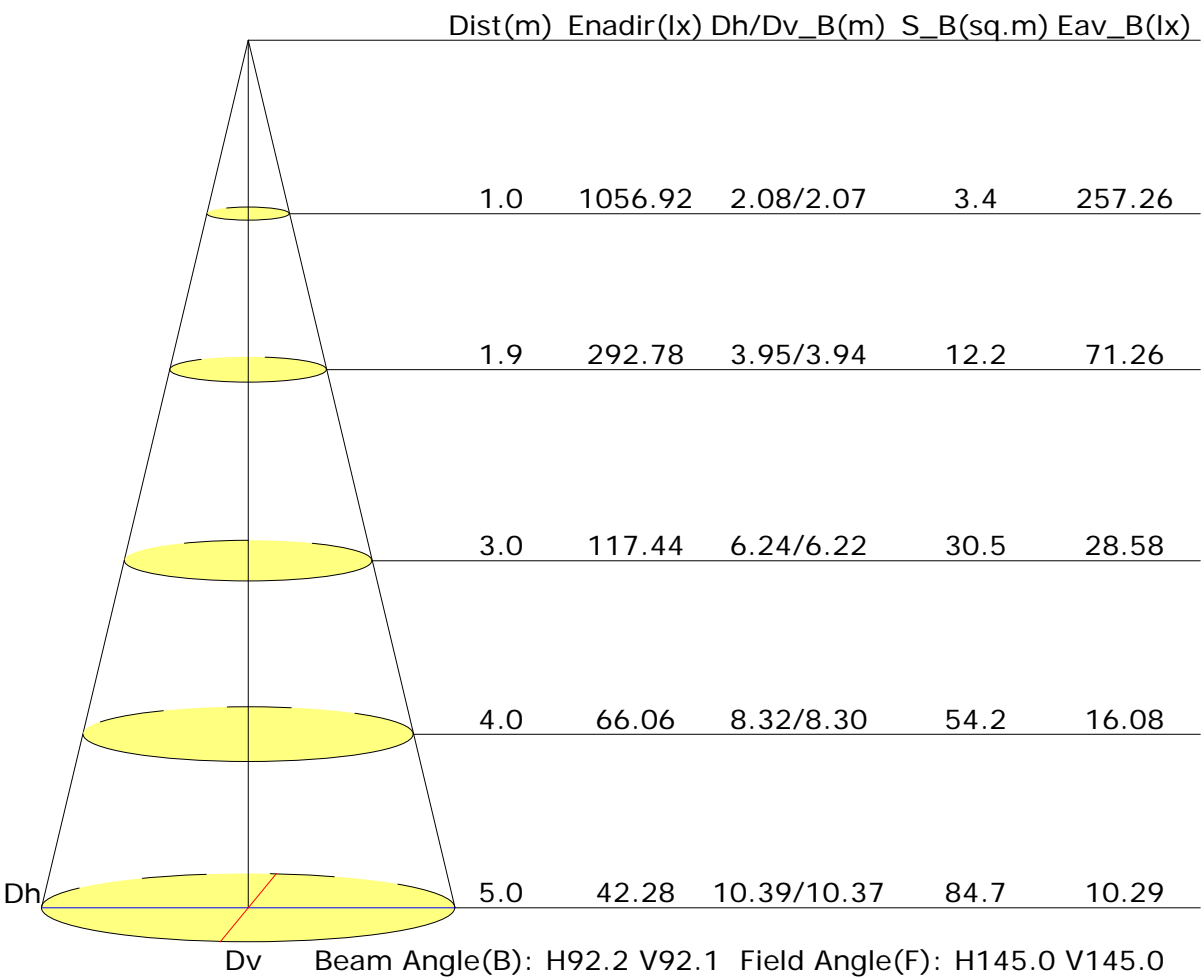


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	30730	28108	25379	22500	19336	15712	11504	7400	6048
C90	31223	28632	25928	23066	20012	16452	12270	8106	6715
C180	31469	28894	26205	23310	20131	16511	12354	8032	6444
C270	30831	28239	25476	22566	19395	15637	11592	7525	6163

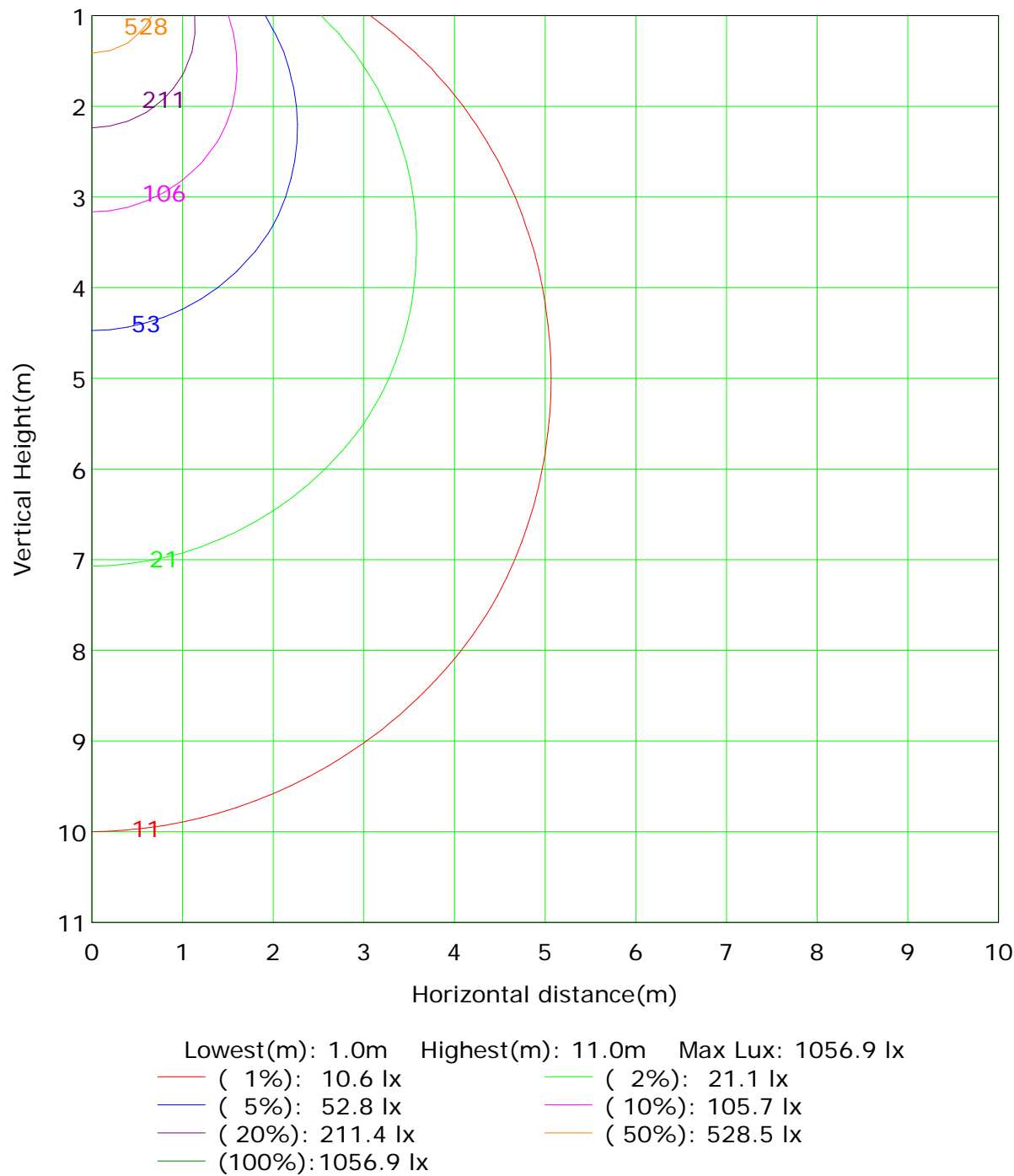
C Plane (°): 0.0-360.0: 45.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25°C  
 Operator: YAN

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



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

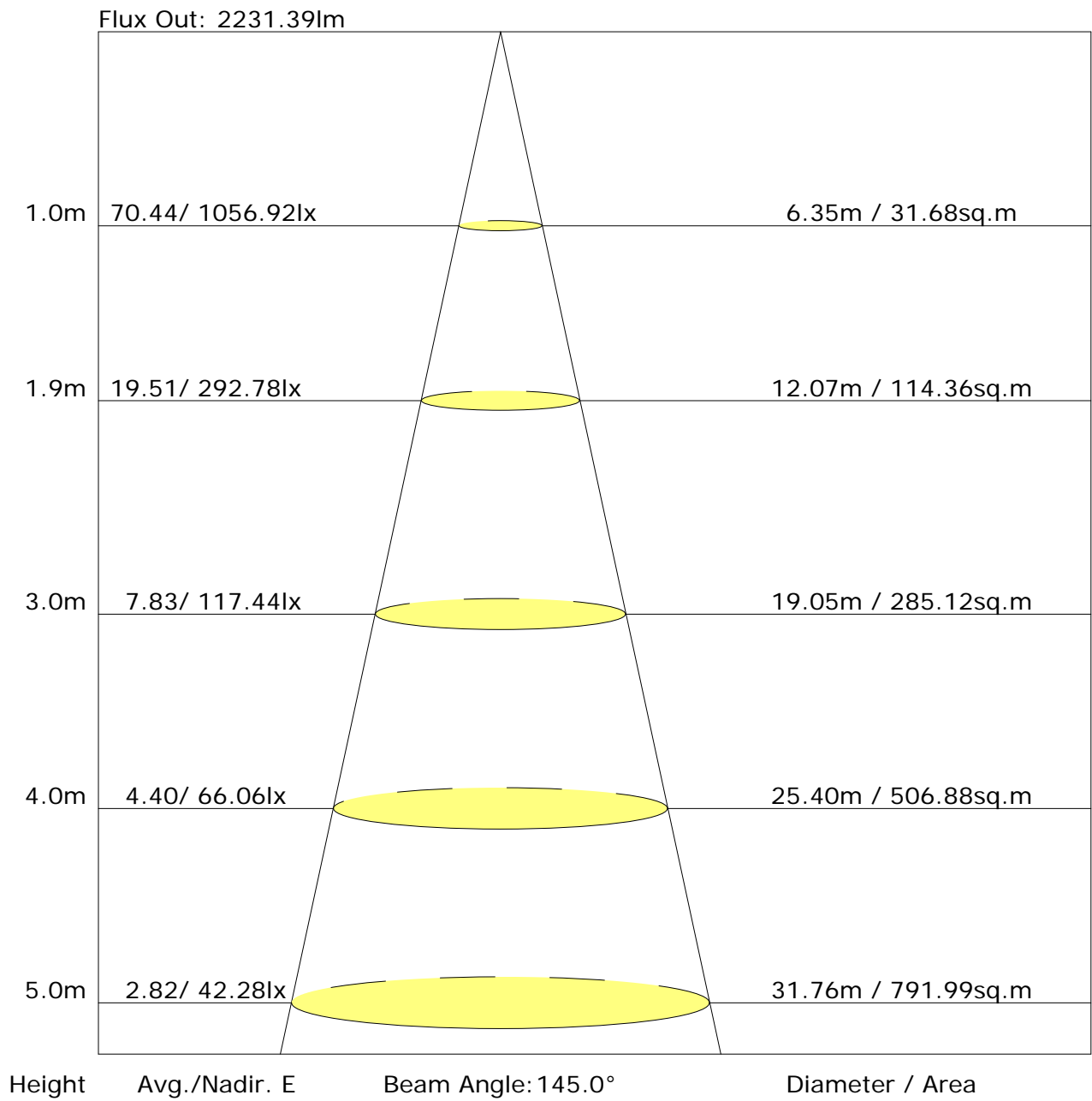
Unit: lm

Flux(E)	Vertical plane																		Flux(T)	Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.2	0.5	0.8	1.3	1.7	2.1	2.3	2.3	2.1	1.7	1.2	0.7	0.4	0.2	0.1	0.0	0.0	0.0	0.0
0.0	0.1	0.5	1.2	2.2	3.5	4.7	5.7	6.2	6.1	5.6	4.5	3.3	2.1	1.1	0.4	0.2	0.1	0.0	0.0	0.0
0.0	0.2	0.9	2.2	4.1	6.3	8.4	10.1	11.0	10.9	9.9	8.2	6.1	3.9	2.1	0.8	0.2	0.1	0.0	0.0	0.0
0.0	0.3	1.4	3.4	6.2	9.3	12.5	15.0	16.4	16.3	14.8	12.2	9.1	5.9	3.2	1.3	0.3	0.0	0.0	0.0	0.0
0.0	0.5	1.9	4.5	8.1	12.4	16.6	19.9	21.8	21.7	19.7	16.2	12.0	7.9	4.3	1.8	0.4	0.0	0.0	0.0	0.0
0.0	0.6	2.3	5.5	9.9	15.1	20.2	24.2	26.4	26.3	24.0	19.9	14.7	9.6	5.3	2.2	0.5	0.0	0.0	0.0	0.0
0.0	0.6	2.6	6.2	11.2	17.1	22.8	27.2	29.7	29.6	27.0	22.6	16.8	10.9	6.0	2.5	0.6	0.0	0.0	0.0	0.0
0.1	0.7	2.8	6.5	11.9	18.2	24.2	28.9	31.4	31.4	28.7	24.0	17.9	11.6	6.3	2.7	0.6	0.0	0.0	0.0	0.0
0.1	0.7	2.8	6.6	11.9	18.2	24.3	28.9	31.5	31.4	28.7	24.0	17.9	11.6	6.4	2.7	0.6	0.0	0.0	0.0	0.0
0.0	0.7	2.6	6.2	11.3	17.2	23.0	27.4	29.8	29.7	27.2	22.8	16.9	11.0	6.0	2.5	0.6	0.0	0.0	0.0	0.0
0.0	0.6	2.3	5.6	10.0	15.3	20.5	24.5	26.6	26.5	24.3	20.2	15.0	9.7	5.4	2.2	0.5	0.0	0.0	0.0	0.0
0.0	0.5	1.9	4.6	8.3	12.7	16.9	20.2	22.0	22.0	20.0	16.6	12.4	8.1	4.4	1.8	0.4	0.0	0.0	0.0	0.0
0.0	0.3	1.5	3.5	6.4	9.7	12.8	15.3	16.6	16.5	15.1	12.5	9.4	6.2	3.4	1.4	0.3	0.0	0.0	0.0	0.0
0.0	0.2	1.0	2.4	4.4	6.6	8.7	10.4	11.2	11.2	10.2	8.5	6.4	4.2	2.2	0.9	0.2	0.0	0.0	0.0	0.0
0.0	0.1	0.5	1.3	2.5	3.8	5.0	5.9	6.4	6.4	5.8	4.8	3.6	2.3	1.2	0.5	0.1	0.0	0.0	0.0	0.0
0.0	0.1	0.2	0.5	1.0	1.5	1.9	2.3	2.5	2.5	2.2	1.8	1.3	0.8	0.5	0.2	0.1	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.5	6.4	25.6	60.9	110.5	168.6	225.0	268.8	292.5	291.6	266.2	221.1	164.3	106.8	58.4	24.3	5.9	0.5	0.5	2298	2231
1.4	21.1	56.9	106.5	164.7	221.2	265.0	288.7	287.8	262.3	217.2	160.4	102.9	54.4	19.6	1.0	0.0	0.0	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	23.5	24.7	23.7	25.0	25.2	23.5	24.8	23.8	25.0	25.2
3H	24.3	25.5	24.7	25.8	26.0	24.4	25.6	24.7	25.8	26.1
4H	24.6	25.7	24.9	25.9	26.2	24.6	25.7	25.0	26.0	26.3
6H	24.7	25.7	25.0	26.0	26.3	24.7	25.7	25.1	26.0	26.4
8H	24.6	25.6	25.0	25.9	26.3	24.7	25.7	25.1	26.0	26.3
12H	24.6	25.6	25.0	25.9	26.2	24.7	25.6	25.1	26.0	26.3
X=4H Y=2H	23.9	25.0	24.2	25.3	25.6	23.9	25.0	24.3	25.3	25.6
3H	24.9	25.9	25.3	26.2	26.5	25.0	25.9	25.4	26.2	26.6
4H	25.2	26.1	25.6	26.4	26.8	25.3	26.1	25.7	26.5	26.9
6H	25.4	26.1	25.8	26.5	26.9	25.4	26.2	25.9	26.6	26.9
8H	25.4	26.1	25.8	26.5	26.9	25.5	26.1	25.9	26.5	26.9
12H	25.4	26.0	25.8	26.4	26.9	25.5	26.1	25.9	26.5	26.9
X=8H Y=4H	25.3	26.0	25.8	26.4	26.8	25.4	26.1	25.8	26.4	26.9
6H	25.5	26.0	26.0	26.5	26.9	25.6	26.1	26.0	26.5	27.0
8H	25.6	26.0	26.0	26.5	27.0	25.6	26.1	26.1	26.5	27.0
12H	25.6	26.0	26.1	26.5	27.0	25.7	26.1	26.2	26.5	27.0
X=12H Y=4H	25.3	25.9	25.8	26.3	26.8	25.4	26.0	25.8	26.4	26.8
6H	25.5	26.0	26.0	26.4	26.9	25.6	26.0	26.1	26.5	27.0
8H	25.6	26.0	26.1	26.4	26.9	25.6	26.0	26.1	26.5	27.0
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.5/-0.9					+0.5/-0.9				
S=2.0H	+1.0/-1.7					+1.0/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 2298lm ( $8\log(F/F_0) = 2.9$ ).

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 = 1.25								
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	0.63	0.73	0.80	0.85	0.92	0.96	0.99	1.03	1.06
	0.30		0.56	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.20		0.51	0.61	0.69	0.74	0.82	0.88	0.91	0.97	1.00
0.50	0.50	0.20	0.62	0.71	0.78	0.83	0.89	0.93	0.96	0.99	1.02
	0.30		0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.97	0.99
	0.20		0.51	0.61	0.68	0.73	0.81	0.86	0.89	0.94	0.97
0.30	0.50	0.20	0.60	0.70	0.76	0.80	0.86	0.90	0.92	0.96	0.98
	0.30		0.55	0.64	0.71	0.76	0.82	0.87	0.90	0.93	0.96
	0.20		0.50	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.94
0.00	0.00	0.00	0.48	0.58	0.64	0.69	0.76	0.80	0.83	0.87	0.89
Rating: 20W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25								
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	0.90	0.73	0.61	0.53	0.42	0.35	0.29	0.23	0.18
	0.30		0.75	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.17
	0.20		0.64	0.55	0.48	0.42	0.35	0.29	0.25	0.20	0.17
0.50	0.50	0.20	0.87	0.70	0.59	0.51	0.40	0.36	0.28	0.21	0.17
	0.30		0.73	0.61	0.52	0.45	0.36	0.30	0.26	0.20	0.17
	0.20		0.64	0.54	0.47	0.41	0.34	0.28	0.24	0.19	0.16
0.30	0.50	0.20	0.84	0.67	0.56	0.48	0.38	0.31	0.26	0.20	0.16
	0.30		0.72	0.59	0.50	0.44	0.35	0.29	0.25	0.19	0.16
	0.20		0.63	0.53	0.46	0.40	0.33	0.27	0.23	0.18	0.15
0.00	0.00	0.00	0.52	0.42	0.36	0.31	0.25	0.20	0.17	0.13	0.11
<p>Rating: 20W 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 = 1.25								
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	0.17	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	0.21
	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	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	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	0.07	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: 20W 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	1056.8	1.0	1.0	0.04	0.04
1.0-2.0	1056.1	3.0	4.0	0.13	0.18
2.0-3.0	1054.9	5.0	9.1	0.22	0.40
3.0-4.0	1053.1	7.1	16.1	0.31	0.70
4.0-5.0	1050.8	9.0	25.2	0.39	1.10
5.0-6.0	1047.8	11.0	36.2	0.48	1.57
6.0-7.0	1044.2	13.0	49.2	0.56	2.14
7.0-8.0	1040.0	14.9	64.0	0.65	2.79
8.0-9.0	1035.3	16.8	80.8	0.73	3.52
9.0-10.0	1029.9	18.6	99.5	0.81	4.33
10.0-11.0	1023.9	20.5	119.9	0.89	5.22
11.0-12.0	1017.4	22.2	142.2	0.97	6.19
12.0-13.0	1010.4	24.0	166.2	1.04	7.23
13.0-14.0	1002.9	25.7	191.8	1.12	8.35
14.0-15.0	994.9	27.3	219.1	1.19	9.54
15.0-16.0	986.3	28.9	248.0	1.26	10.79
16.0-17.0	977.3	30.4	278.5	1.32	12.12
17.0-18.0	967.9	31.9	310.4	1.39	13.51
18.0-19.0	957.9	33.3	343.7	1.45	14.96
19.0-20.0	947.6	34.7	378.4	1.51	16.47
20.0-21.0	936.7	36.0	414.4	1.57	18.03
21.0-22.0	925.5	37.2	451.6	1.62	19.65
22.0-23.0	913.9	38.4	489.9	1.67	21.32
23.0-24.0	901.9	39.4	529.4	1.72	23.03
24.0-25.0	889.5	40.4	569.8	1.76	24.79
25.0-26.0	876.6	41.4	611.2	1.80	26.60
26.0-27.0	863.4	42.2	653.5	1.84	28.43
27.0-28.0	849.9	43.0	696.5	1.87	30.31
28.0-29.0	835.9	43.7	740.2	1.90	32.21
29.0-30.0	821.3	44.4	784.6	1.93	34.14
30.0-31.0	806.1	44.9	829.5	1.95	36.09
31.0-32.0	790.2	45.3	874.7	1.97	38.06
32.0-33.0	773.8	45.6	920.3	1.98	40.05
33.0-34.0	756.9	45.8	966.1	1.99	42.04
34.0-35.0	739.7	45.9	1012.1	2.00	44.04
35.0-36.0	722.3	46.0	1058.1	2.00	46.04

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 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	704.5	46.0	1104.0	2.00	48.04
37.0-38.0	686.4	45.8	1149.8	1.99	50.03
38.0-39.0	668.2	45.6	1195.5	1.98	52.02
39.0-40.0	649.9	45.3	1240.8	1.97	53.99
40.0-41.0	631.6	45.0	1285.8	1.96	55.95
41.0-42.0	613.0	44.5	1330.3	1.94	57.89
42.0-43.0	594.5	44.0	1374.4	1.92	59.80
43.0-44.0	576.1	43.5	1417.8	1.89	61.69
44.0-45.0	557.6	42.9	1460.7	1.86	63.56
45.0-46.0	539.1	42.2	1502.9	1.83	65.39
46.0-47.0	520.6	41.4	1544.3	1.80	67.20
47.0-48.0	502.2	40.6	1584.9	1.77	68.96
48.0-49.0	483.8	39.7	1624.6	1.73	70.69
49.0-50.0	465.7	38.8	1663.4	1.69	72.38
50.0-51.0	447.6	37.9	1701.3	1.65	74.03
51.0-52.0	429.7	36.9	1738.2	1.60	75.63
52.0-53.0	412.0	35.8	1774.0	1.56	77.19
53.0-54.0	394.5	34.8	1808.8	1.51	78.71
54.0-55.0	377.2	33.7	1842.5	1.47	80.17
55.0-56.0	360.1	32.5	1875.0	1.42	81.59
56.0-57.0	343.1	31.4	1906.4	1.37	82.95
57.0-58.0	326.4	30.2	1936.6	1.31	84.27
58.0-59.0	309.9	29.0	1965.6	1.26	85.53
59.0-60.0	293.4	27.7	1993.3	1.21	86.73
60.0-61.0	277.2	26.5	2019.7	1.15	87.88
61.0-62.0	261.4	25.2	2044.9	1.10	88.98
62.0-63.0	245.9	23.9	2068.9	1.04	90.02
63.0-64.0	230.4	22.6	2091.5	0.98	91.00
64.0-65.0	215.2	21.3	2112.8	0.93	91.93
65.0-66.0	200.4	20.0	2132.8	0.87	92.80
66.0-67.0	185.9	18.7	2151.5	0.81	93.62
67.0-68.0	171.6	17.4	2168.8	0.76	94.37
68.0-69.0	157.6	16.1	2184.9	0.70	95.07
69.0-70.0	144.0	14.8	2199.7	0.64	95.71
70.0-71.0	130.8	13.5	2213.2	0.59	96.30
71.0-72.0	118.0	12.3	2225.5	0.53	96.84

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	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	
G1.0	1056.4	1056.6	1056.5	1057.1	1056.9	1056.6	1056.4	1056.3	1056.4	
G2.0	1055.2	1055.7	1055.7	1056.4	1056.4	1055.7	1055.6	1055.0	1055.2	
G3.0	1053.4	1054.4	1054.2	1055.2	1055.0	1053.9	1053.9	1053.0	1053.4	
G4.0	1051.0	1052.3	1052.3	1053.6	1053.1	1052.3	1051.9	1050.7	1051.0	
G5.0	1048.1	1049.7	1049.6	1051.2	1050.8	1049.5	1049.0	1047.6	1048.1	
G6.0	1044.4	1046.2	1046.4	1048.4	1047.7	1046.2	1045.9	1043.9	1044.4	
G7.0	1040.4	1042.5	1042.5	1044.9	1044.1	1042.2	1042.0	1039.6	1040.4	
G8.0	1035.7	1037.9	1038.1	1040.7	1039.7	1037.8	1037.4	1034.8	1035.7	
G9.0	1030.2	1033.1	1033.6	1036.0	1035.0	1032.8	1032.0	1029.3	1030.2	
G10.0	1024.4	1027.2	1027.5	1030.5	1029.3	1027.2	1026.4	1023.3	1024.4	
G11.0	1018.0	1020.9	1021.3	1024.7	1023.7	1020.7	1020.3	1016.7	1018.0	
G12.0	1011.1	1014.2	1014.7	1018.4	1017.0	1014.0	1013.2	1009.7	1011.1	
G13.0	1003.8	1007.3	1007.4	1011.5	1009.8	1006.9	1005.7	1002.3	1003.8	
G14.0	995.9	999.2	999.4	1004.1	1002.4	999.0	997.8	993.9	995.9	
G15.0	987.3	991.3	991.2	996.3	994.4	990.6	989.5	985.3	987.3	
G16.0	978.5	982.2	982.8	987.8	985.3	981.9	980.5	976.1	978.5	
G17.0	969.0	973.4	973.4	978.9	976.5	973.3	970.8	967.1	969.0	
G18.0	959.2	963.6	964.4	969.5	966.8	963.0	961.2	956.8	959.2	
G19.0	948.9	953.4	954.0	959.6	956.8	952.7	950.8	946.2	948.9	
G20.0	938.8	942.8	943.5	949.5	946.8	941.9	940.1	935.2	938.8	
G21.0	927.3	931.7	932.2	938.9	935.6	930.8	928.8	924.1	927.3	
G22.0	915.7	920.2	921.2	927.9	924.6	919.2	917.6	912.2	915.7	
G23.0	903.5	908.7	908.9	916.2	913.0	907.6	905.6	900.2	903.5	
G24.0	891.5	896.3	897.5	904.2	900.8	895.2	893.0	887.4	891.5	
G25.0	878.7	884.1	884.6	892.2	888.3	882.4	880.4	874.8	878.7	
G26.0	865.5	870.8	871.6	878.9	875.7	869.7	867.1	861.1	865.5	
G27.0	852.1	857.5	858.4	866.2	862.2	856.4	853.8	847.5	852.1	
G28.0	838.2	843.8	845.1	852.5	848.7	842.4	840.1	833.4	838.2	
G29.0	823.6	829.6	830.8	839.1	834.8	828.1	825.8	818.8	823.6	
G30.0	808.6	814.0	815.8	824.3	820.4	813.6	811.0	803.0	808.6	
G31.0	793.3	798.6	799.9	809.5	804.6	798.3	795.2	787.5	793.3	
G32.0	776.4	782.7	783.8	793.0	788.9	781.9	778.8	770.7	776.4	
G33.0	759.6	765.3	767.9	776.9	772.3	766.5	762.0	754.0	759.6	
G34.0	742.1	748.5	750.2	759.8	755.7	748.5	745.1	736.5	742.1	
G35.0	725.5	731.4	733.1	743.0	737.9	731.6	727.4	718.8	725.5	
G36.0	707.4	713.8	715.5	726.0	721.0	713.2	709.9	700.7	707.4	

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	689.7	695.6	697.8	708.3	702.8	695.7	691.6	682.7	689.7	
G38.0	671.4	677.7	679.6	690.0	685.0	677.5	673.3	664.2	671.4	
G39.0	653.1	659.5	661.5	671.8	666.3	659.0	655.2	646.1	653.1	
G40.0	634.4	641.6	642.9	654.0	648.4	640.4	636.5	627.3	634.4	
G41.0	616.8	622.7	625.0	635.7	629.8	622.1	618.4	608.8	616.8	
G42.0	597.4	604.5	606.5	617.3	610.9	603.1	599.5	590.1	597.4	
G43.0	579.2	585.6	587.9	598.7	592.5	585.5	581.0	571.7	579.2	
G44.0	561.1	567.4	569.7	580.6	574.5	566.1	562.7	552.8	561.1	
G45.0	542.5	548.7	551.2	561.7	555.5	547.8	544.2	535.0	542.5	
G46.0	523.7	530.5	532.3	543.6	537.3	529.0	526.2	516.3	523.7	
G47.0	505.8	512.3	514.3	524.8	518.4	510.6	506.9	497.9	505.8	
G48.0	487.1	494.0	495.7	506.8	499.9	492.4	489.0	479.0	487.1	
G49.0	469.1	475.3	477.5	488.4	481.4	473.8	470.6	461.3	469.1	
G50.0	451.0	457.6	459.5	470.3	463.6	455.3	453.1	442.9	451.0	
G51.0	433.4	439.6	441.4	452.2	444.8	437.6	434.4	425.4	433.4	
G52.0	415.3	421.6	423.5	434.6	427.2	419.7	417.2	407.2	415.3	
G53.0	398.1	403.7	406.2	416.4	409.7	401.8	399.2	390.4	398.1	
G54.0	380.3	386.8	388.3	399.2	392.7	384.5	381.6	372.4	380.3	
G55.0	363.4	369.1	371.3	382.0	375.2	367.6	364.8	355.5	363.4	
G56.0	346.5	352.5	354.5	364.8	357.8	350.1	347.6	338.5	346.5	
G57.0	330.2	335.9	338.0	347.4	340.4	333.1	330.3	321.9	330.2	
G58.0	313.1	319.3	320.7	330.7	324.4	316.5	314.7	305.6	313.1	
G59.0	297.1	302.4	304.7	314.0	307.4	300.1	297.9	289.0	297.1	
G60.0	280.8	286.3	287.9	297.6	291.0	283.8	281.7	273.0	280.8	
G61.0	265.1	270.2	271.8	281.2	275.1	267.7	265.4	256.9	265.1	
G62.0	249.1	254.7	256.6	265.8	259.0	251.7	250.1	241.8	249.1	
G63.0	234.4	239.1	241.6	249.7	243.6	236.5	234.4	225.9	234.4	
G64.0	218.9	224.1	226.0	234.3	227.6	220.9	218.8	211.0	218.9	
G65.0	204.0	209.2	211.1	218.8	212.4	206.1	204.6	196.1	204.0	
G66.0	189.6	194.3	195.3	204.1	197.5	191.6	189.7	182.4	189.6	
G67.0	175.6	180.1	181.3	189.6	183.3	176.6	175.5	167.6	175.6	
G68.0	161.3	165.1	166.8	175.6	168.5	162.9	161.3	154.0	161.3	
G69.0	147.7	151.1	154.3	161.2	154.7	149.1	147.0	140.5	147.7	
G70.0	134.1	138.1	140.5	148.0	141.0	135.6	133.5	127.4	134.1	
G71.0	121.6	124.8	126.6	134.5	128.0	122.5	121.7	114.6	121.6	
G72.0	109.0	112.2	114.8	121.4	115.1	109.9	108.9	102.2	109.0	
G73.0	97.1	99.9	102.3	108.6	102.8	97.8	97.1	90.6	97.1	

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: