

Report No.:

Test Time: 2023-08-23 11:14

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ADLED12W110DV2

Luminous Length (mm): 110

Voltage: 230.2 V

Power: 10.50 W

Lamp Catalog: 4000K

Luminous Width (mm): 110

Current: 0.048 A

Power Factor: 0.956

Photometric Results

CIE Class: Direct

Measurement Flux: 838.4 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 144.5, 144.1, 144.4, 144.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 89.9, 89.9, 90.0, 90.0

Luminaire Efficacy Rating (LER): 79.89

Max. Intensity: 400.11 cd

S/MH(C0/C180): 1.13

Total Rated Lamp Lumens: 838.4 lm

Efficiency: 100%

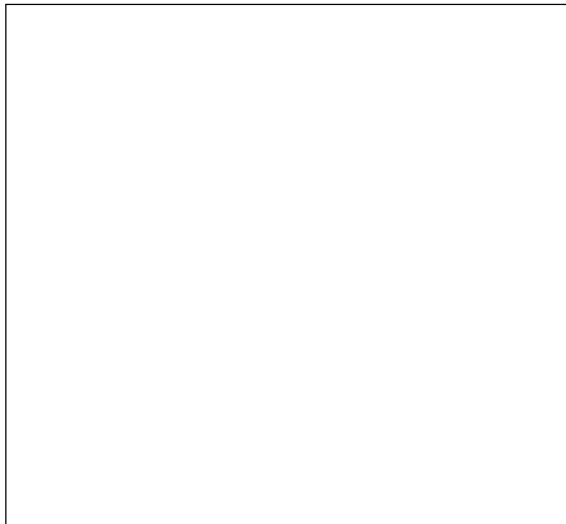
Upward Ratio: 0%

Central Intensity: 400.1 cd

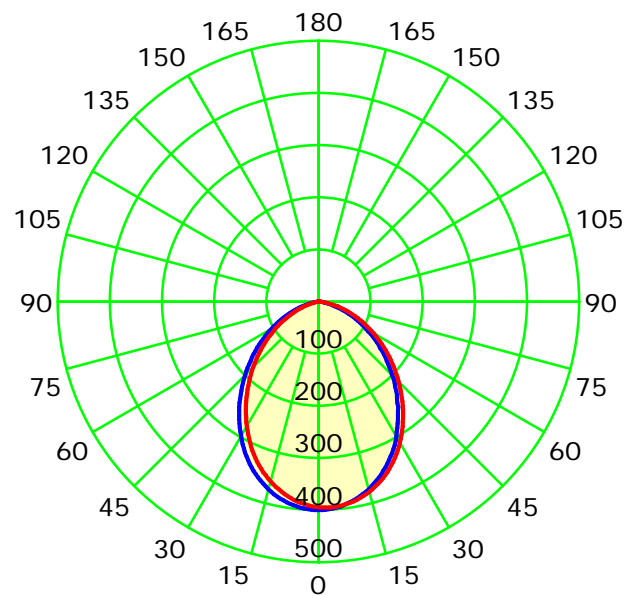
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.13

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature: 25°C

Operator: XU

Gamma Plane (°):0.0-90.0:1.0

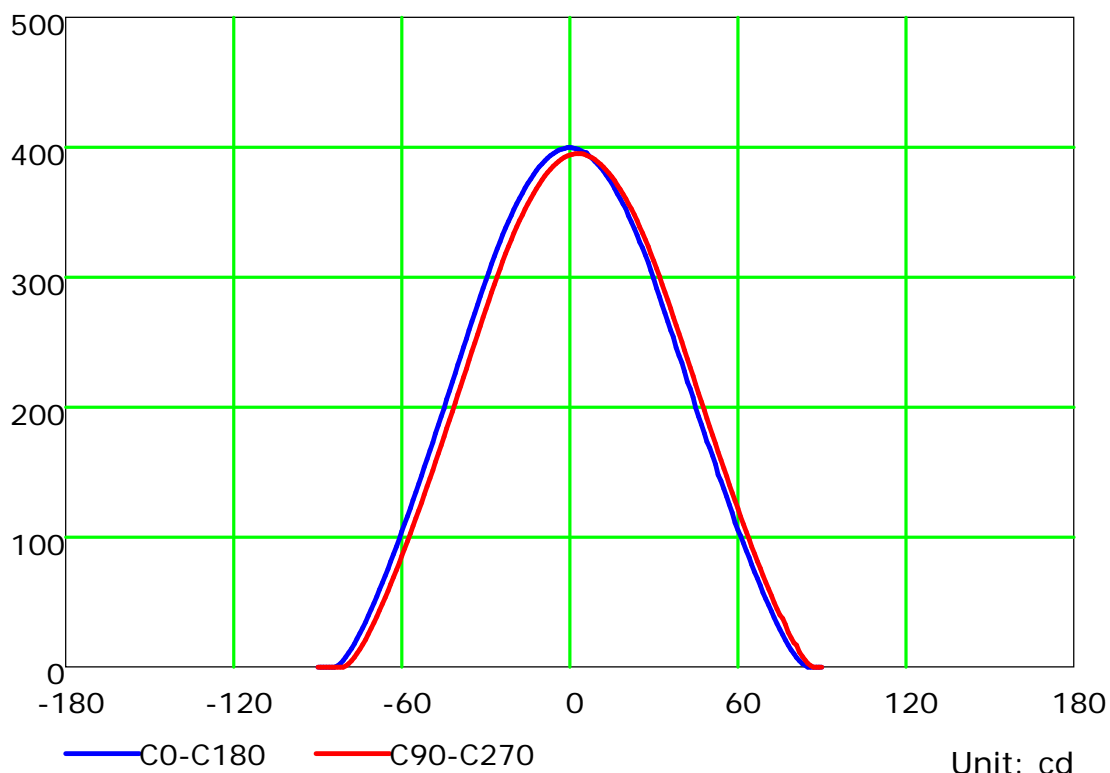
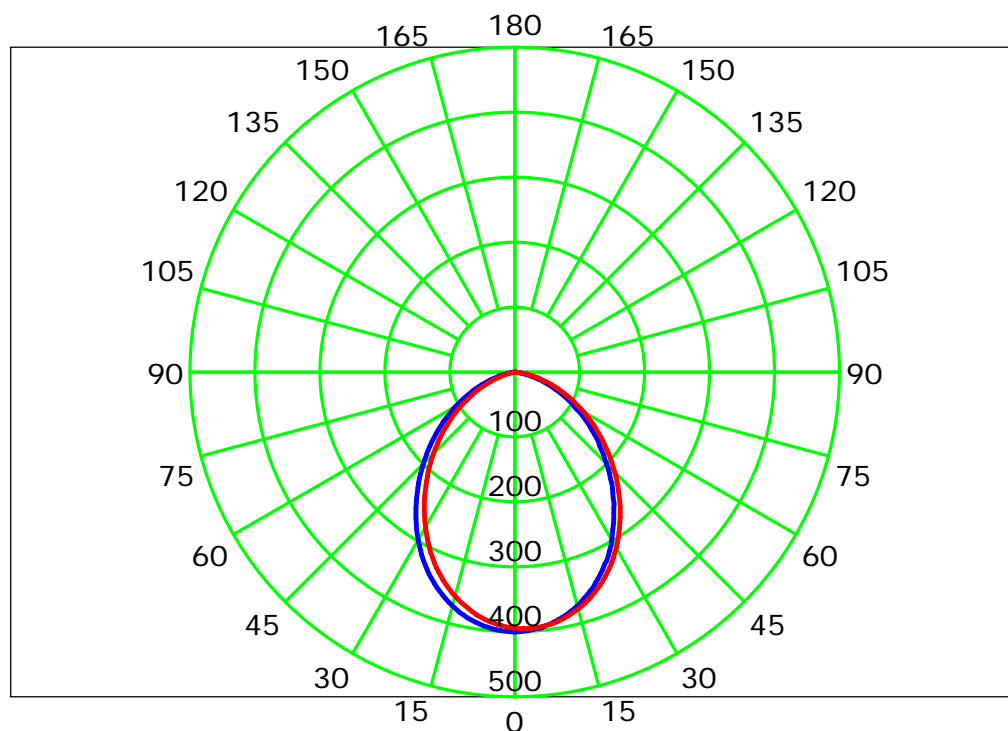
Test Device: GPM-1600

Distance: 8.550 m

Humidity: 50%

Inspector:

Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

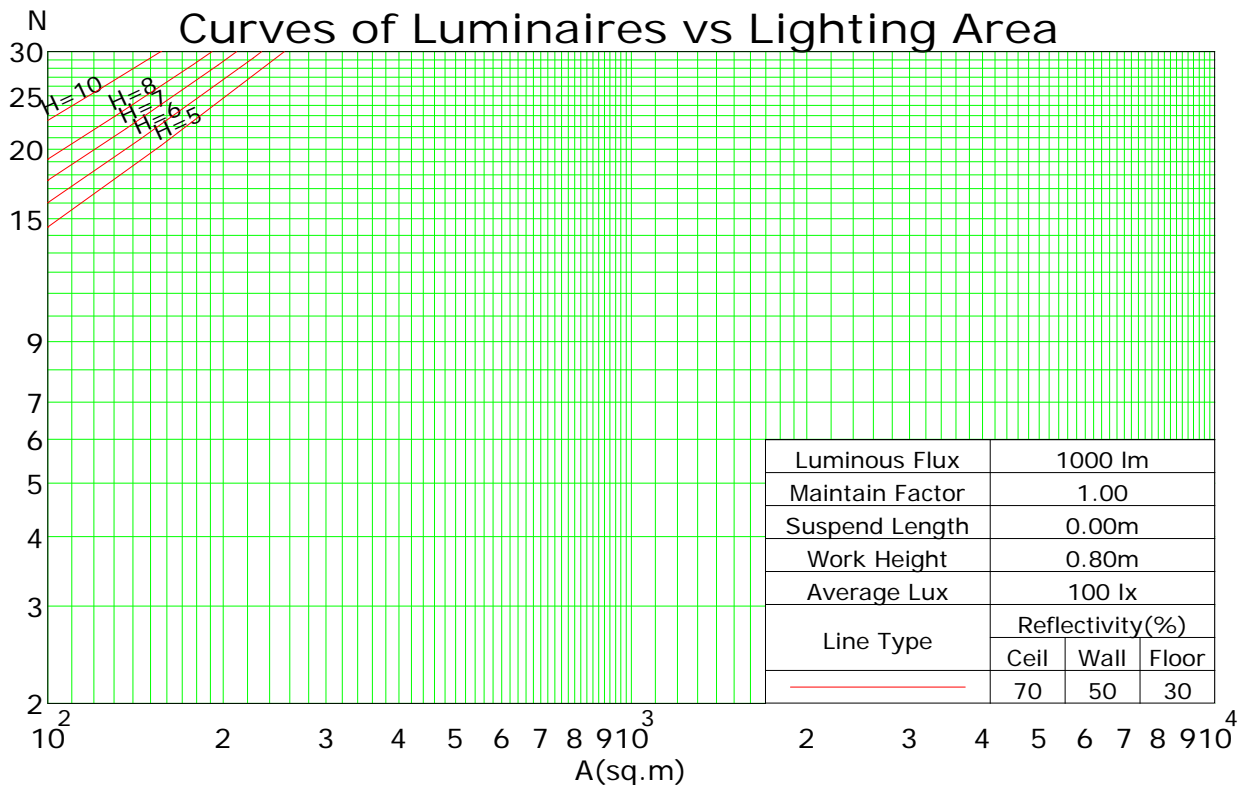
Coefficients Of Utilization - Zonal Cavity Method

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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29

Spacing Criteria (0-180): 1.13

Spacing Criteria (90-270): 1.13

Spacing Criteria (Diagonal): 1.21



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature: 25°C

Operator: XU

Gamma Plane (°):0.0-90.0:1.0

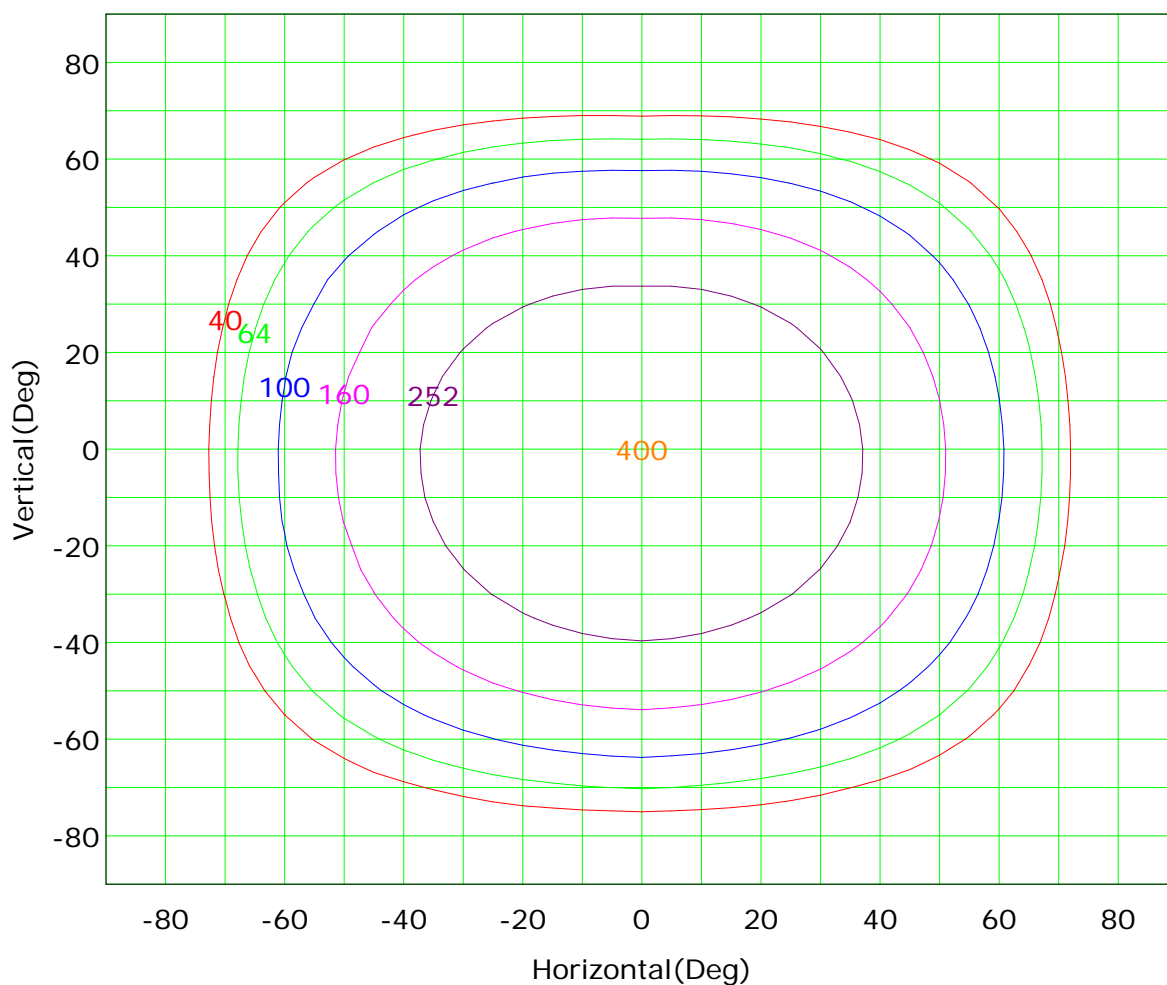
Test Device: GPM-1600

Distance: 8.550 m

Humidity: 50%

Inspector:

Isocandela (rectangle)



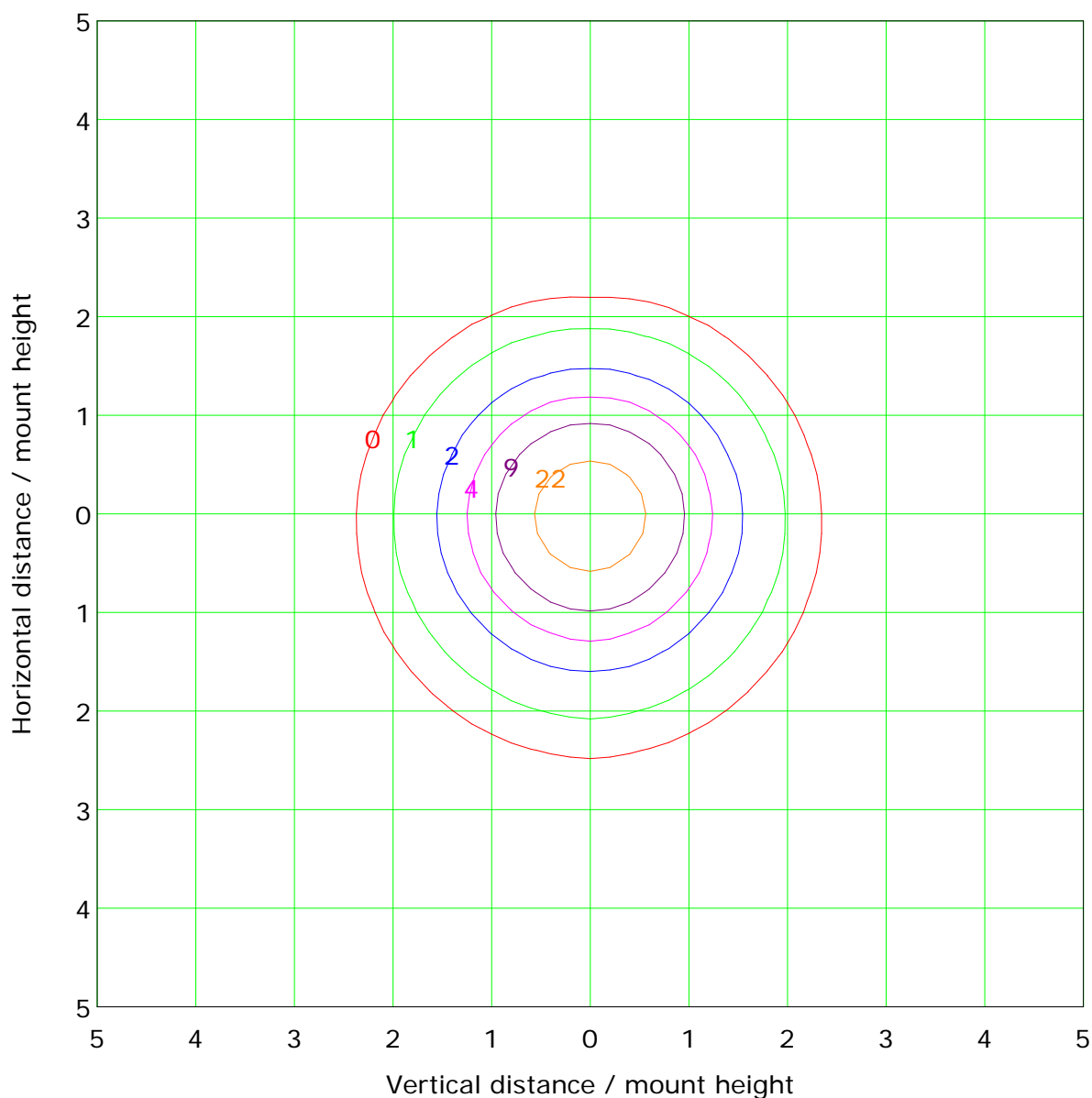
I_{max} (100%): 400 cd

(10%):	40 cd	(16%):	64 cd
(25%):	100 cd	(40%):	160 cd
(63%):	252 cd	(100%):	400 cd

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

IsoLux Plot



Mounting Height: 3.0m Max Lux(100%): 44.5 lx

— (1%): 0.4 lx	— (2%): 0.9 lx
— (5%): 2.2 lx	— (10%): 4.4 lx
— (20%): 8.9 lx	— (50%): 22.2 lx
— (100%): 44.5 lx	

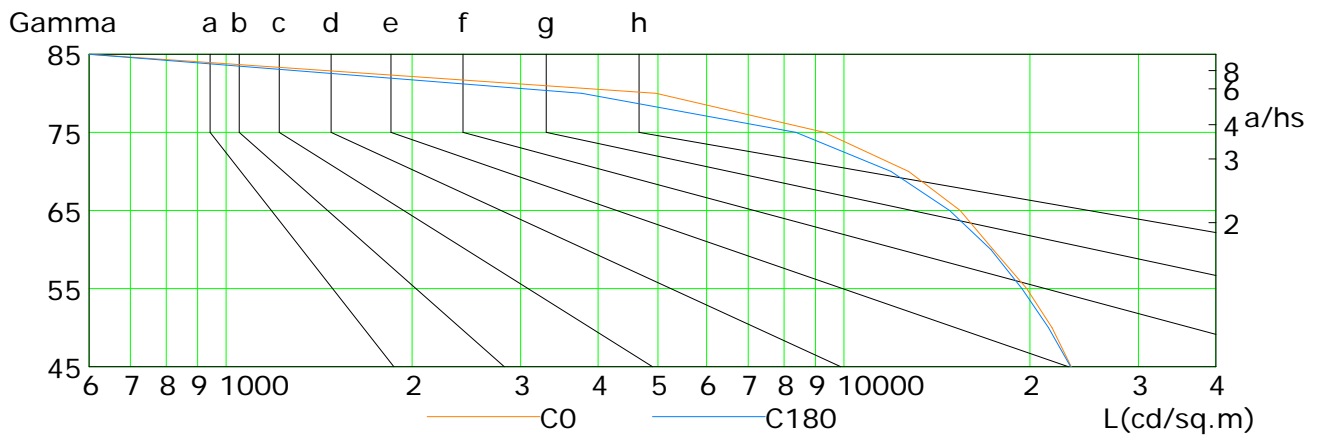
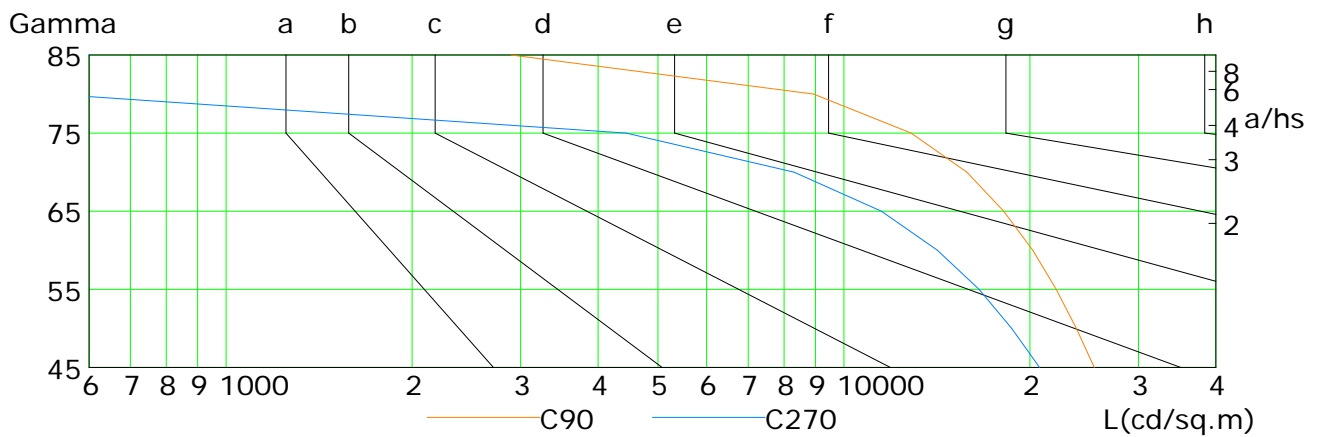
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.550 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

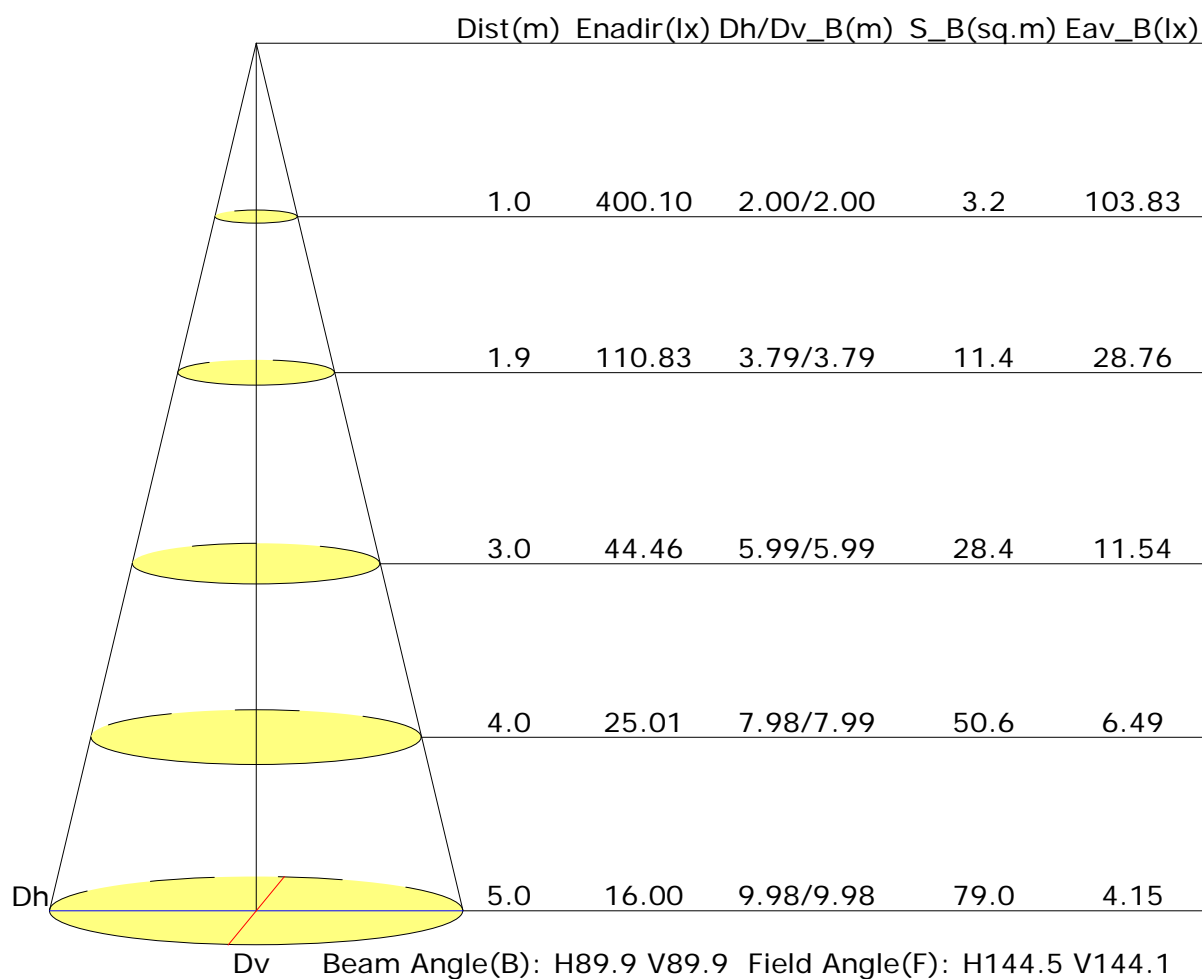


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	23347	21724	19779	17436	15419	12729	9308	4964	0
C90	25442	23779	22068	20235	18153	15818	12849	8928	2892
C180	23295	21451	19433	17309	14833	11920	8366	3765	0
C270	20738	18692	16554	14180	11508	8305	4445	528	0

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.550 m
Humidity: 50%
Inspector:

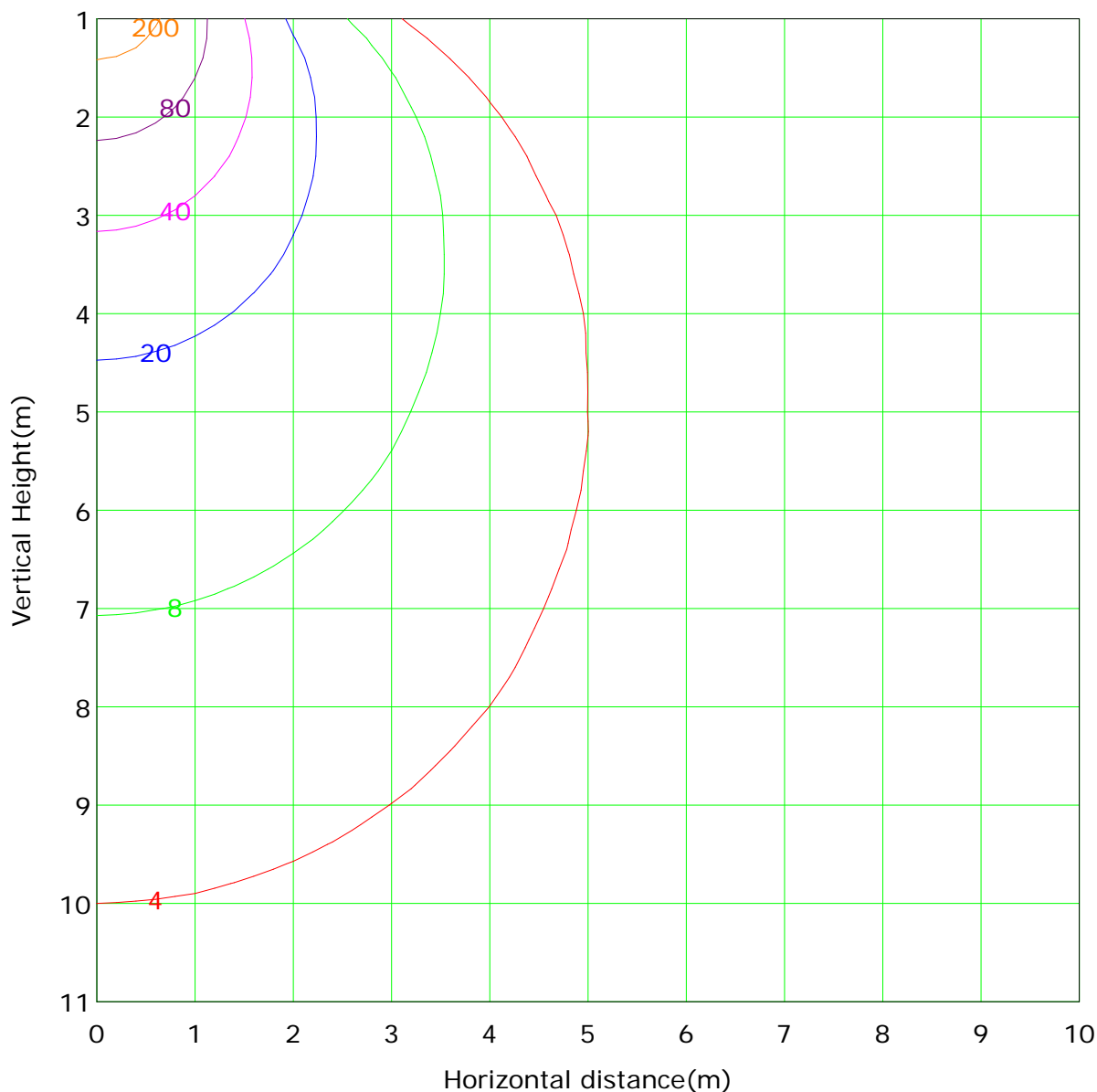
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 400.1 lx

— (1%): 4.0 lx	— (2%): 8.0 lx
— (5%): 20.0 lx	— (10%): 40.0 lx
— (20%): 80.0 lx	— (50%): 200.1 lx
— (100%): 400.1 lx	

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

Area Flux Table

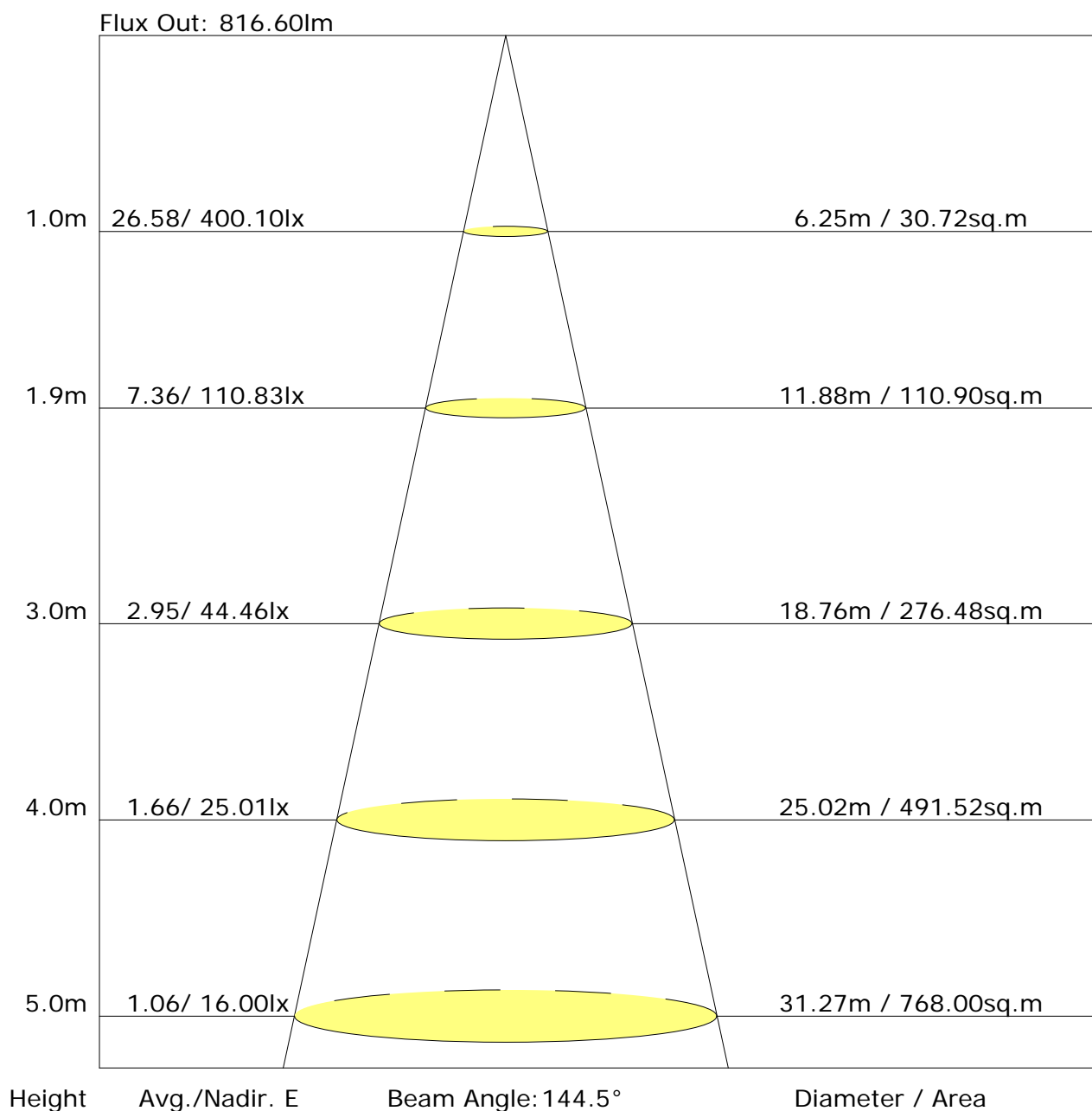
Unit: lm

Unit: m																			
Vertical plane										Horizontal plane									
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	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
Flux(T)	0.0	0.0	0.0	0.1	0.3	0.7	1.4	2.1	3.3	5.0	7.3	10.7	17.6	28.1	39.8	51.5	63.2	74.9	86.6
Flux(E)	0.0	0.3	7.2	20.2	38.0	59.0	79.9	96.7	105.9	105.9	96.9	80.1	59.3	38.5	20.7	7.7	0.5	0.0	0.0
Flux(T)	0.0	1.8	8.7	21.5	39.3	60.2	81.2	98.0	107.1	107.1	98.1	81.4	60.6	39.8	22.0	9.2	2.1	0.1	838
Flux(E)	0.0	0.0	0.0	0.1	0.3	0.6	0.8	1.1	1.2	1.2	1.1	0.9	0.6	0.4	0.2	0.0	0.0	0.0	0.0
Flux(T)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	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
Flux(T)	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
Flux(E)	0.0	0.0																	

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.550 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	22.7	23.9	22.9	24.1	24.4	22.6	23.9	22.9	24.1	24.3
3H	23.6	24.8	23.9	25.0	25.3	23.6	24.7	23.9	25.0	25.2
4H	23.9	24.9	24.2	25.2	25.5	23.8	24.9	24.2	25.2	25.5
6H	23.9	24.9	24.3	25.2	25.5	23.9	24.9	24.3	25.2	25.6
8H	23.9	24.9	24.3	25.2	25.5	23.9	24.9	24.3	25.2	25.5
12H	23.9	24.8	24.2	25.1	25.5	23.9	24.8	24.3	25.2	25.5
X=4H Y=2H	23.1	24.2	23.5	24.5	24.8	23.1	24.2	23.4	24.4	24.7
3H	24.2	25.2	24.6	25.5	25.8	24.2	25.1	24.6	25.4	25.8
4H	24.6	25.4	25.0	25.7	26.1	24.5	25.4	24.9	25.7	26.1
6H	24.7	25.4	25.1	25.8	26.2	24.7	25.4	25.1	25.8	26.2
8H	24.7	25.3	25.1	25.7	26.1	24.7	25.4	25.2	25.8	26.2
12H	24.6	25.2	25.1	25.6	26.1	24.7	25.3	25.2	25.7	26.2
X=8H Y=4H	24.7	25.3	25.1	25.7	26.1	24.6	25.3	25.1	25.7	26.1
6H	24.8	25.3	25.3	25.8	26.2	24.9	25.4	25.3	25.8	26.3
8H	24.8	25.3	25.3	25.7	26.2	24.9	25.4	25.4	25.8	26.3
12H	24.8	25.2	25.3	25.6	26.2	24.9	25.3	25.4	25.8	26.3
X=12H Y=4H	24.6	25.2	25.1	25.6	26.1	24.6	25.2	25.1	25.6	26.1
6H	24.8	25.3	25.3	25.7	26.2	24.8	25.3	25.3	25.8	26.2
8H	24.8	25.2	25.3	25.7	26.2	24.9	25.3	25.4	25.8	26.3
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.4/-0.5				
S=1.5H	+0.5/-0.9					+0.7/-1.3				
S=2.0H	+1.0/-1.5					+0.8/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 838lm ($8\log(F/F_0) = -0.6$).

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: GPM-1600
Distance: 8.550 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	0.64	0.74	0.81	0.86	0.92	0.97	1.00	1.04	1.06
	0.30		0.57	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.20		0.52	0.62	0.69	0.75	0.83	0.88	0.92	0.97	1.01
0.50	0.50	0.20	0.62	0.72	0.78	0.83	0.89	0.93	0.96	1.00	1.02
	0.30		0.56	0.66	0.73	0.78	0.85	0.89	0.93	0.97	0.99
	0.20		0.51	0.61	0.68	0.74	0.81	0.86	0.90	0.94	0.97
0.30	0.50	0.20	0.61	0.70	0.76	0.80	0.86	0.90	0.93	0.96	0.98
	0.30		0.55	0.65	0.71	0.76	0.83	0.87	0.90	0.94	0.96
	0.20		0.51	0.61	0.68	0.73	0.79	0.84	0.87	0.92	0.94
0.00	0.00	0.00	0.49	0.58	0.65	0.70	0.76	0.80	0.83	0.87	0.90
<p>Rating: 11W 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 = 1.25								
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	0.89	0.72	0.61	0.52	0.41	0.34	0.29	0.22	0.18
	0.30		0.74	0.62	0.53	0.46	0.37	0.31	0.27	0.21	0.17
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.19	0.16
0.50	0.50	0.20	0.86	0.69	0.58	0.50	0.39	0.36	0.27	0.21	0.17
	0.30		0.73	0.60	0.51	0.45	0.36	0.30	0.25	0.20	0.16
	0.20		0.63	0.53	0.46	0.41	0.33	0.28	0.24	0.19	0.15
0.30	0.50	0.20	0.83	0.66	0.56	0.48	0.37	0.30	0.26	0.20	0.16
	0.30		0.71	0.59	0.50	0.43	0.34	0.28	0.24	0.19	0.15
	0.20		0.62	0.52	0.45	0.40	0.32	0.27	0.23	0.18	0.15
0.00	0.00	0.00	0.51	0.42	0.35	0.30	0.24	0.20	0.17	0.13	0.10
<p>Rating: 11W 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	0.15	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	0.10	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: 11W 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	397.1	0.4	0.4	0.05	0.05
1.0-2.0	396.8	1.1	1.5	0.14	0.18
2.0-3.0	396.3	1.9	3.4	0.23	0.41
3.0-4.0	395.5	2.6	6.1	0.32	0.72
4.0-5.0	394.5	3.4	9.5	0.40	1.13
5.0-6.0	393.4	4.1	13.6	0.49	1.62
6.0-7.0	391.8	4.9	18.5	0.58	2.20
7.0-8.0	390.0	5.6	24.0	0.67	2.87
8.0-9.0	388.1	6.3	30.3	0.75	3.62
9.0-10.0	385.8	7.0	37.3	0.83	4.45
10.0-11.0	383.4	7.7	45.0	0.91	5.36
11.0-12.0	380.8	8.3	53.3	0.99	6.36
12.0-13.0	377.9	9.0	62.3	1.07	7.43
13.0-14.0	374.9	9.6	71.9	1.14	8.57
14.0-15.0	371.6	10.2	82.1	1.22	9.79
15.0-16.0	368.0	10.8	92.9	1.29	11.08
16.0-17.0	364.2	11.3	104.2	1.35	12.43
17.0-18.0	360.4	11.9	116.1	1.42	13.85
18.0-19.0	356.4	12.4	128.5	1.48	15.32
19.0-20.0	352.2	12.9	141.4	1.54	16.86
20.0-21.0	347.7	13.4	154.7	1.59	18.46
21.0-22.0	343.0	13.8	168.5	1.64	20.10
22.0-23.0	338.2	14.2	182.7	1.69	21.79
23.0-24.0	333.1	14.6	197.3	1.74	23.53
24.0-25.0	327.8	14.9	212.2	1.78	25.31
25.0-26.0	322.5	15.2	227.4	1.82	27.12
26.0-27.0	317.1	15.5	242.9	1.85	28.97
27.0-28.0	311.4	15.8	258.7	1.88	30.86
28.0-29.0	305.5	16.0	274.7	1.91	32.76
29.0-30.0	299.4	16.2	290.8	1.93	34.69
30.0-31.0	293.2	16.3	307.2	1.95	36.64
31.0-32.0	286.8	16.4	323.6	1.96	38.60
32.0-33.0	280.4	16.5	340.1	1.97	40.57
33.0-34.0	274.1	16.6	356.7	1.98	42.55
34.0-35.0	267.7	16.6	373.3	1.98	44.53
35.0-36.0	261.2	16.6	390.0	1.98	46.51

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.550 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	254.8	16.6	406.6	1.98	48.50
37.0-38.0	248.2	16.6	423.1	1.98	50.47
38.0-39.0	241.4	16.5	439.6	1.97	52.44
39.0-40.0	235.0	16.4	456.0	1.96	54.39
40.0-41.0	228.6	16.3	472.3	1.94	56.34
41.0-42.0	221.9	16.1	488.4	1.92	58.26
42.0-43.0	215.2	15.9	504.4	1.90	60.16
43.0-44.0	208.8	15.8	520.1	1.88	62.04
44.0-45.0	202.0	15.5	535.7	1.85	63.89
45.0-46.0	195.2	15.3	550.9	1.82	65.71
46.0-47.0	188.7	15.0	565.9	1.79	67.50
47.0-48.0	182.2	14.7	580.7	1.76	69.26
48.0-49.0	175.8	14.4	595.1	1.72	70.98
49.0-50.0	169.5	14.1	609.2	1.69	72.67
50.0-51.0	163.4	13.8	623.1	1.65	74.32
51.0-52.0	157.0	13.5	636.5	1.61	75.93
52.0-53.0	150.5	13.1	649.6	1.56	77.49
53.0-54.0	144.2	12.7	662.3	1.52	79.00
54.0-55.0	138.2	12.3	674.7	1.47	80.48
55.0-56.0	132.0	11.9	686.6	1.42	81.90
56.0-57.0	125.9	11.5	698.1	1.37	83.27
57.0-58.0	119.9	11.1	709.2	1.32	84.59
58.0-59.0	113.7	10.6	719.8	1.27	85.86
59.0-60.0	107.5	10.2	730.0	1.21	87.07
60.0-61.0	101.9	9.7	739.7	1.16	88.23
61.0-62.0	96.3	9.3	749.0	1.11	89.34
62.0-63.0	90.5	8.8	757.8	1.05	90.39
63.0-64.0	84.9	8.3	766.1	0.99	91.38
64.0-65.0	79.4	7.9	774.0	0.94	92.32
65.0-66.0	73.9	7.4	781.4	0.88	93.20
66.0-67.0	68.5	6.9	788.2	0.82	94.02
67.0-68.0	63.2	6.4	794.7	0.76	94.79
68.0-69.0	58.0	5.9	800.6	0.71	95.49
69.0-70.0	53.0	5.4	806.0	0.65	96.14
70.0-71.0	48.0	5.0	811.0	0.59	96.73
71.0-72.0	43.2	4.5	815.5	0.54	97.27

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.550 m
Humidity: 50%
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	400.1	394.4	400.1	394.4	400.1					
G1.0	399.7	394.8	400.0	393.5	399.7					
G2.0	399.2	395.2	399.3	392.6	399.2					
G3.0	398.7	395.2	398.7	391.2	398.7					
G4.0	397.6	395.4	398.0	389.3	397.6					
G5.0	396.4	394.9	396.8	387.7	396.4					
G6.0	395.9	394.2	395.3	385.7	395.9					
G7.0	393.4	393.0	393.8	383.3	393.4					
G8.0	391.6	392.1	391.8	380.9	391.6					
G9.0	389.4	390.7	389.9	378.2	389.4					
G10.0	387.2	389.0	387.3	375.0	387.2					
G11.0	384.6	387.3	385.1	371.7	384.6					
G12.0	382.0	385.0	382.2	368.2	382.0					
G13.0	378.9	382.8	379.4	364.8	378.9					
G14.0	375.8	380.3	375.9	360.9	375.8					
G15.0	372.6	377.6	372.5	356.9	372.6					
G16.0	368.6	374.6	368.9	352.7	368.6					
G17.0	364.6	371.1	365.0	348.3	364.6					
G18.0	360.9	368.0	361.1	344.0	360.9					
G19.0	356.7	364.4	356.9	339.2	356.7					
G20.0	352.9	360.7	352.5	334.2	352.9					
G21.0	347.5	356.6	347.8	329.1	347.5					
G22.0	342.9	352.9	343.1	323.8	342.9					
G23.0	337.8	348.4	338.1	318.4	337.8					
G24.0	332.8	343.9	333.0	312.5	332.8					
G25.0	327.2	338.9	327.5	306.7	327.2					
G26.0	323.0	334.3	322.1	300.7	323.0					
G27.0	317.3	329.0	316.3	294.6	317.3					
G28.0	311.4	323.9	310.3	288.4	311.4					
G29.0	305.5	318.1	304.1	282.2	305.5					
G30.0	299.1	312.7	298.1	275.8	299.1					
G31.0	291.6	306.8	291.9	269.3	291.6					
G32.0	285.3	301.0	285.5	262.6	285.3					
G33.0	278.9	294.7	279.2	256.4	278.9					
G34.0	272.5	288.7	272.6	249.7	272.5					
G35.0	266.1	282.4	266.2	243.3	266.1					
G36.0	259.4	276.1	259.5	236.5	259.4					

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	254.3	269.8	252.9	229.7	254.3					
G38.0	246.1	263.3	246.4	223.3	246.1					
G39.0	239.8	256.9	239.4	216.5	239.8					
G40.0	234.3	250.4	232.9	209.9	234.3					
G41.0	227.7	244.0	226.3	203.6	227.7					
G42.0	219.6	237.4	219.7	196.8	219.6					
G43.0	214.4	230.8	212.8	190.4	214.4					
G44.0	207.7	224.2	206.2	183.8	207.7					
G45.0	199.8	217.7	199.3	177.4	199.8					
G46.0	193.1	210.8	193.0	170.8	193.1					
G47.0	186.8	204.4	186.4	164.3	186.8					
G48.0	180.1	198.0	180.0	157.9	180.1					
G49.0	173.6	191.5	173.2	151.7	173.6					
G50.0	169.0	184.9	166.8	145.4	169.0					
G51.0	162.7	178.6	160.3	139.2	162.7					
G52.0	156.3	172.1	154.0	132.9	156.3					
G53.0	148.2	165.8	147.6	126.9	148.2					
G54.0	143.6	159.5	141.3	120.8	143.6					
G55.0	137.3	153.2	134.9	114.9	137.3					
G56.0	131.2	146.9	128.7	108.8	131.2					
G57.0	125.2	140.5	122.6	103.1	125.2					
G58.0	119.2	134.4	116.5	97.3	119.2					
G59.0	111.3	128.3	110.7	91.5	111.3					
G60.0	105.5	122.4	104.7	85.8	105.5					
G61.0	101.4	116.2	98.6	80.3	101.4					
G62.0	95.8	110.3	92.8	74.7	95.8					
G63.0	89.9	104.4	87.1	69.3	89.9					
G64.0	84.5	98.8	81.4	64.0	84.5					
G65.0	78.8	92.8	75.8	58.8	78.8					
G66.0	73.4	87.2	70.3	53.6	73.4					
G67.0	68.4	81.5	65.0	48.6	68.4					
G68.0	62.9	76.3	59.7	43.7	62.9					
G69.0	57.6	70.8	54.5	38.9	57.6					
G70.0	52.7	65.5	49.3	34.4	52.7					
G71.0	47.9	60.1	44.5	30.0	47.9					
G72.0	43.0	55.0	39.5	25.6	43.0					
G73.0	38.3	50.0	34.9	21.4	38.3					

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.550 m
 Humidity: 50%
 Inspector:

Unit: cd

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.550 m
Humidity: 50%
Inspector: