

Report No.:

Test Time: 2020-10-30 18:12

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MLS0210W12V30KD25 (不帶帽沿CXM-7, 10.55W)

Lamp Catalog: CXM-7-30-80-36

Voltage: 11.9 V

Power: 10.43 W

Lamp Description: DDC10WB12S-230

Current: 0.969 A

Power Factor: 0.906

Volt Amps: 11.51 VA

## Photometric Results

CIE Class: Direct

Measurement Flux: 834 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%,75%,100%): H62.8,H32.7,H22.4,H4

Vertical Diffuse Angle(10%,50%,75%,100%): V62.5,V32.4,V22.1,V2

Luminaire Efficacy Rating (LER): 80.01

Max. Intensity: 2046.7 cd

S/MH(C0/C180): 0.54

Total Rated Lamp Lumens: 834.0 lm

Efficiency: 100%

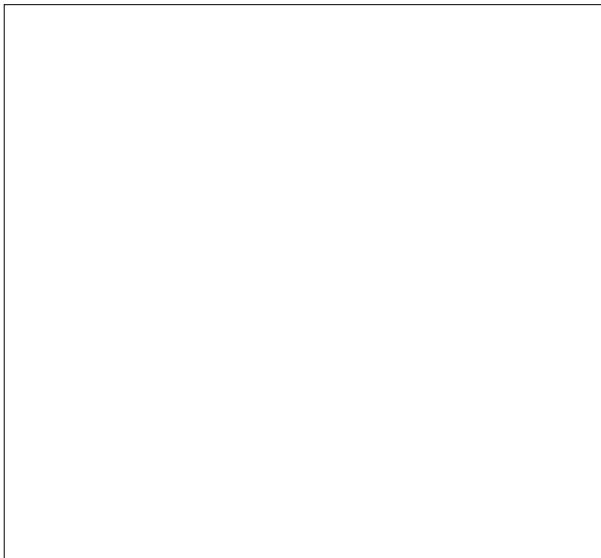
Upward Ratio: 1%

Central Intensity: 2024.41 cd

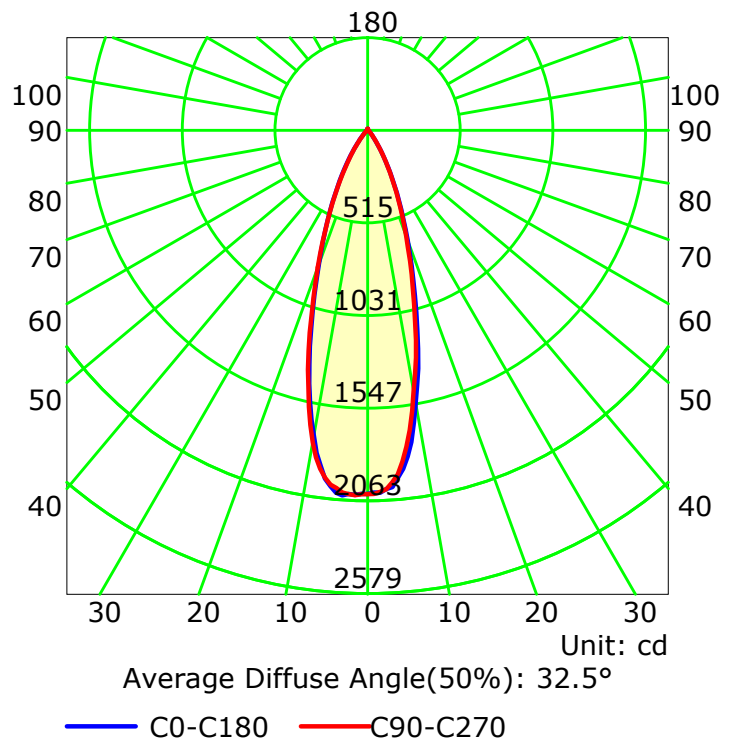
Pos of Max. Intensity: H150 V2

S/MH(C90/C270): 0.54

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

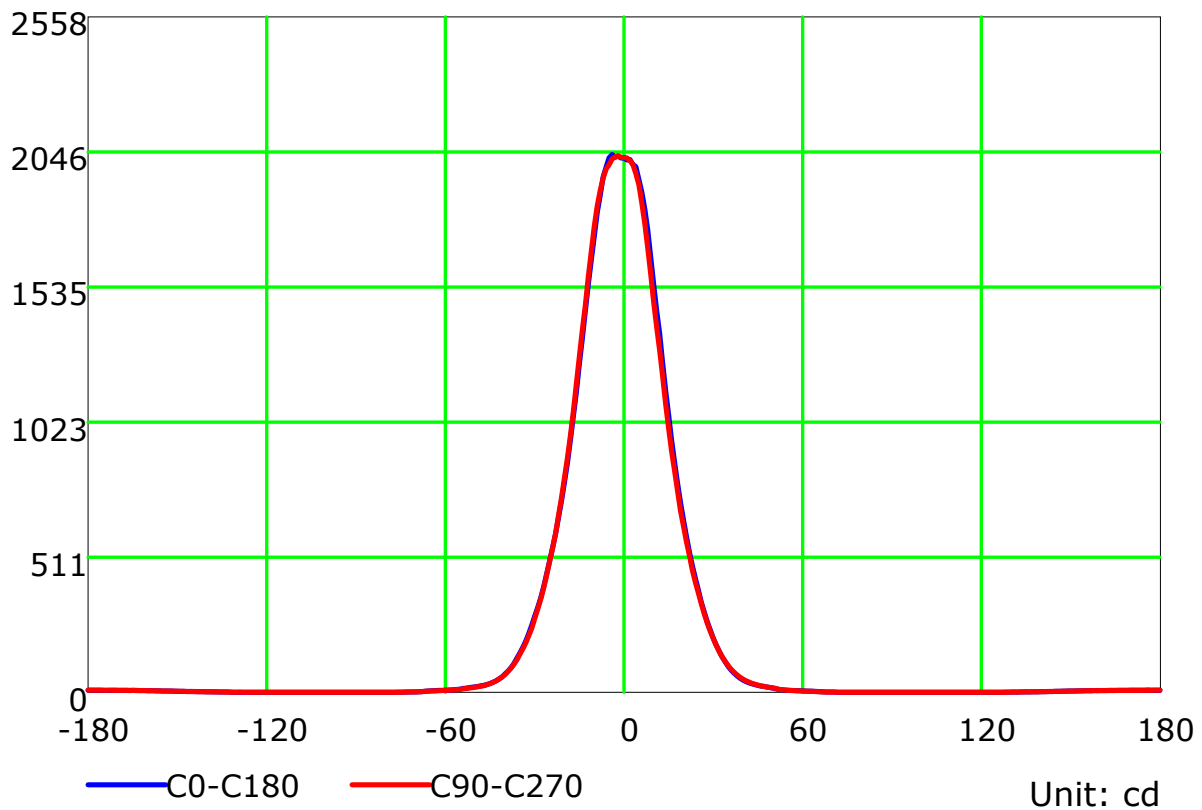
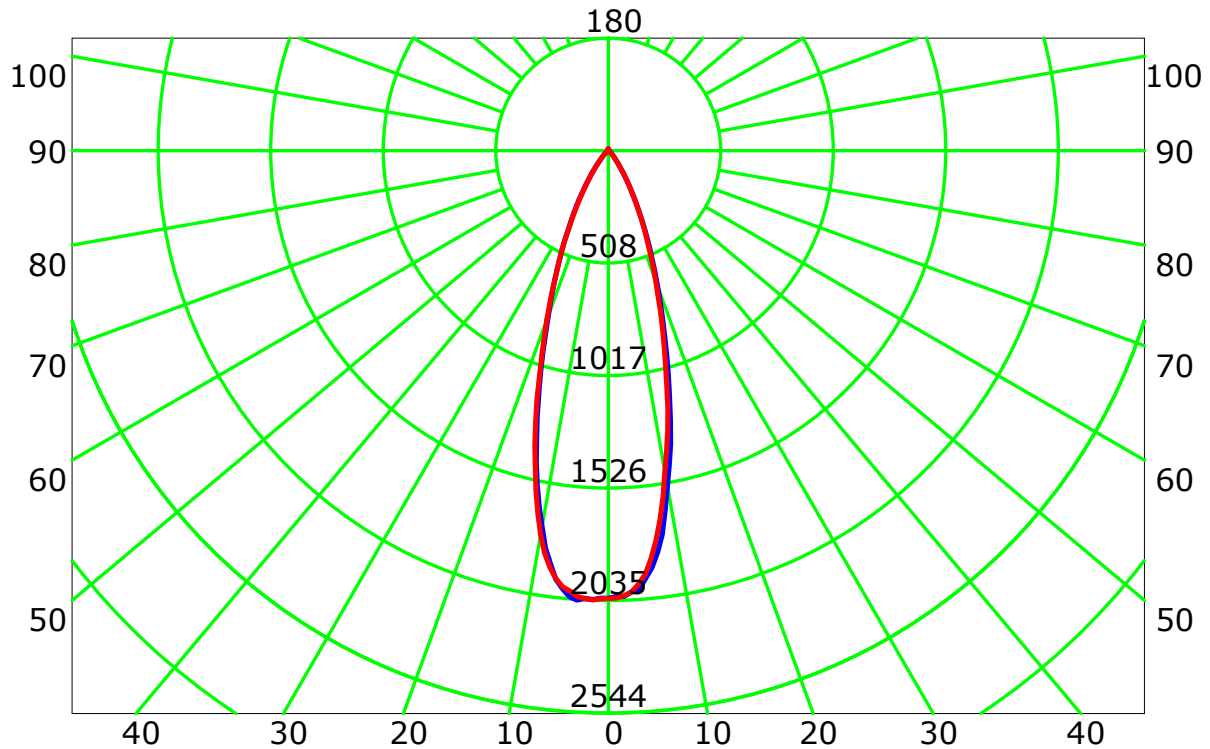
Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

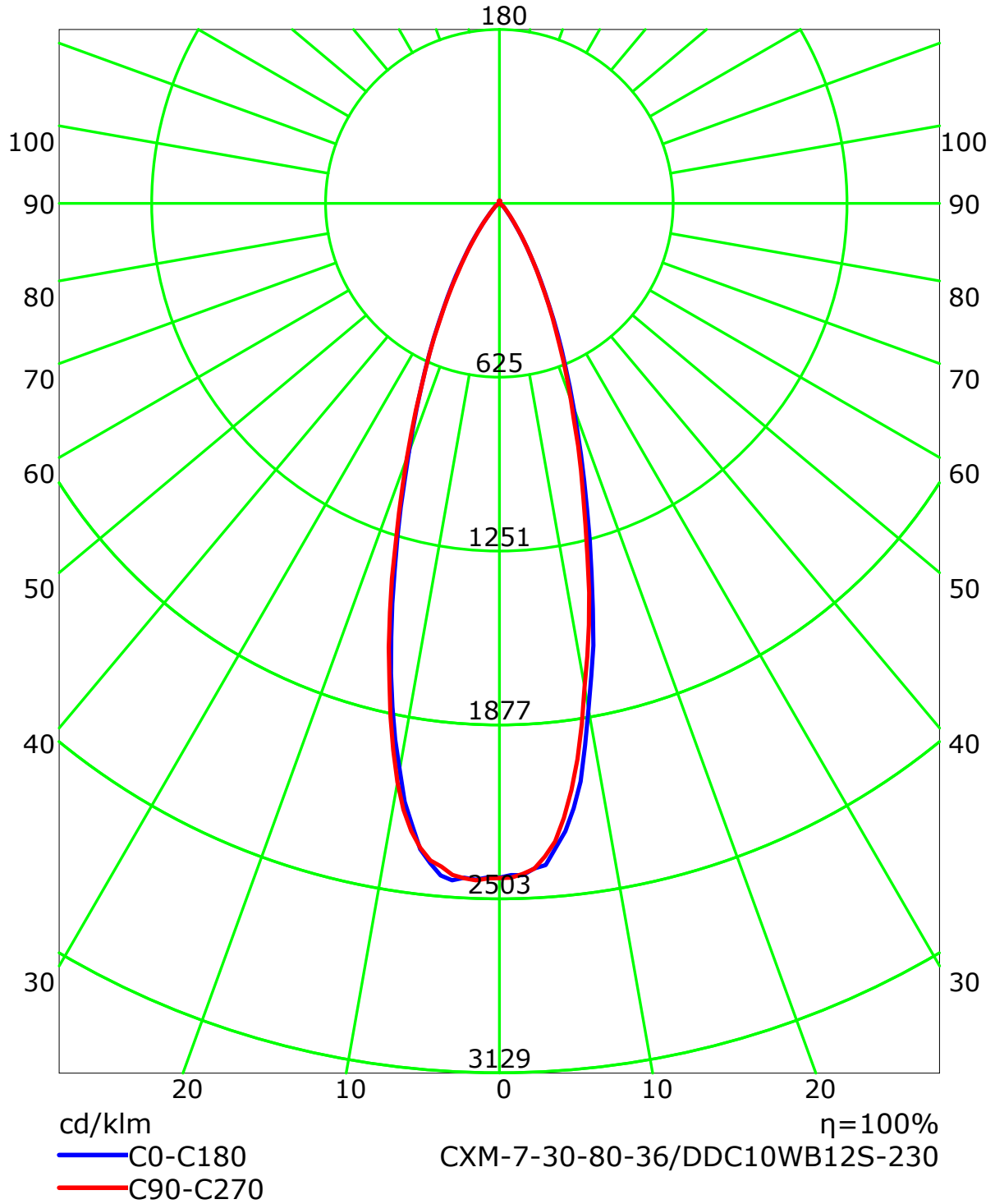
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



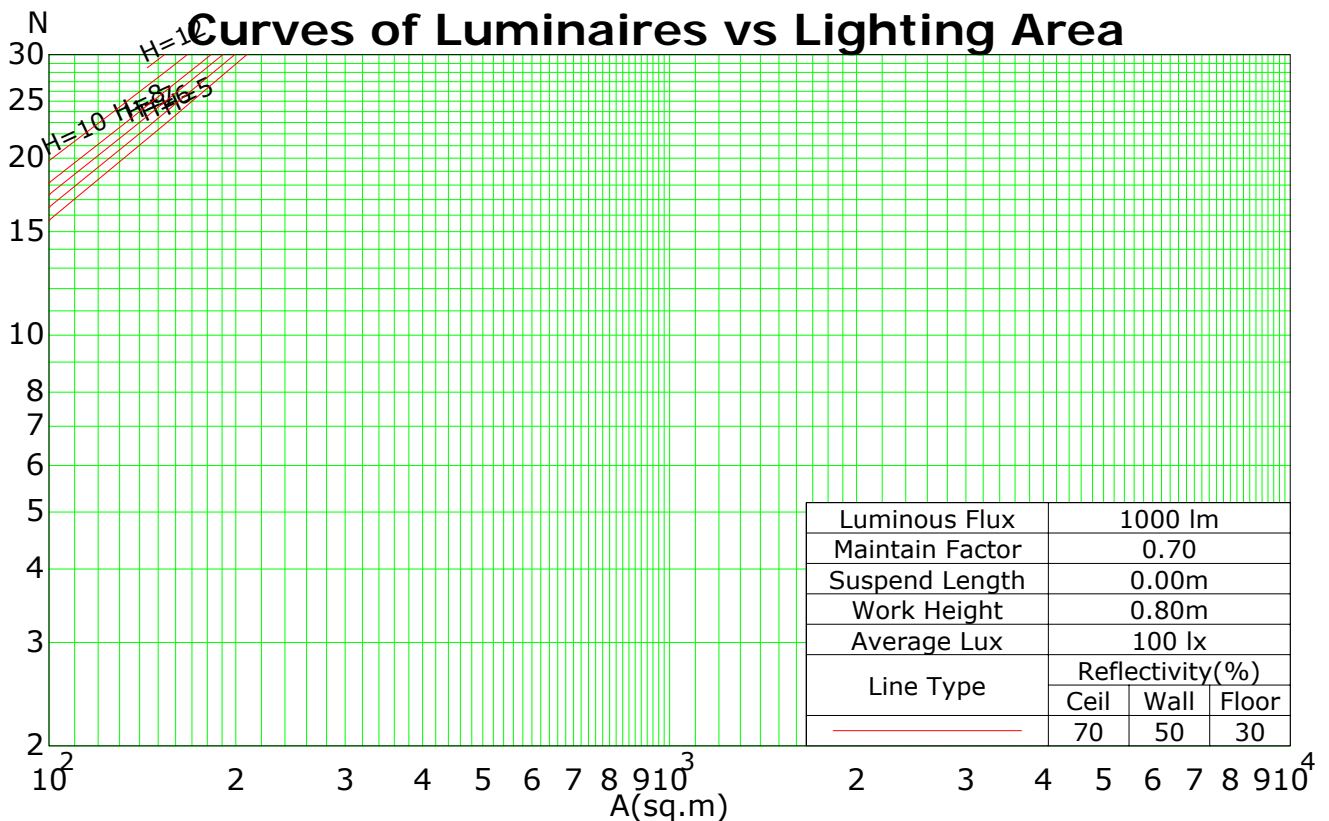
C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 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	101	101	101	99
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	92	90	87	90	88	86	84
4	100	94	89	85	98	93	88	85	90	87	84	88	85	83	86	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	80	76	91	84	79	76	82	78	75	81	77	75	80	76	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	66
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	68	65	62	61

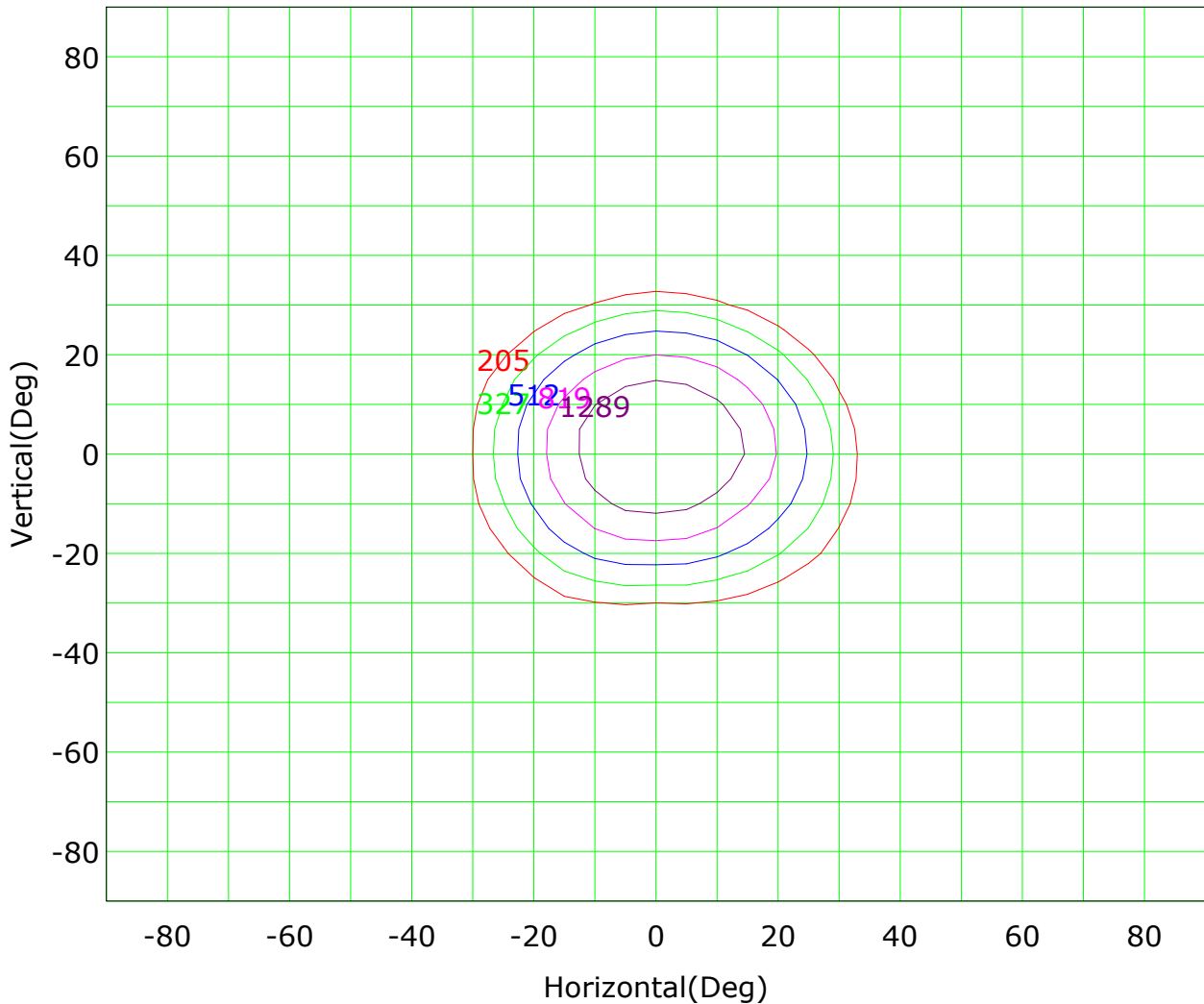
Spacing Criteria (0-180): 0.54  
 Spacing Criteria (90-270): 0.54  
 Spacing Criteria (Diagonal): 0.56



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Isocandela (rectangle)



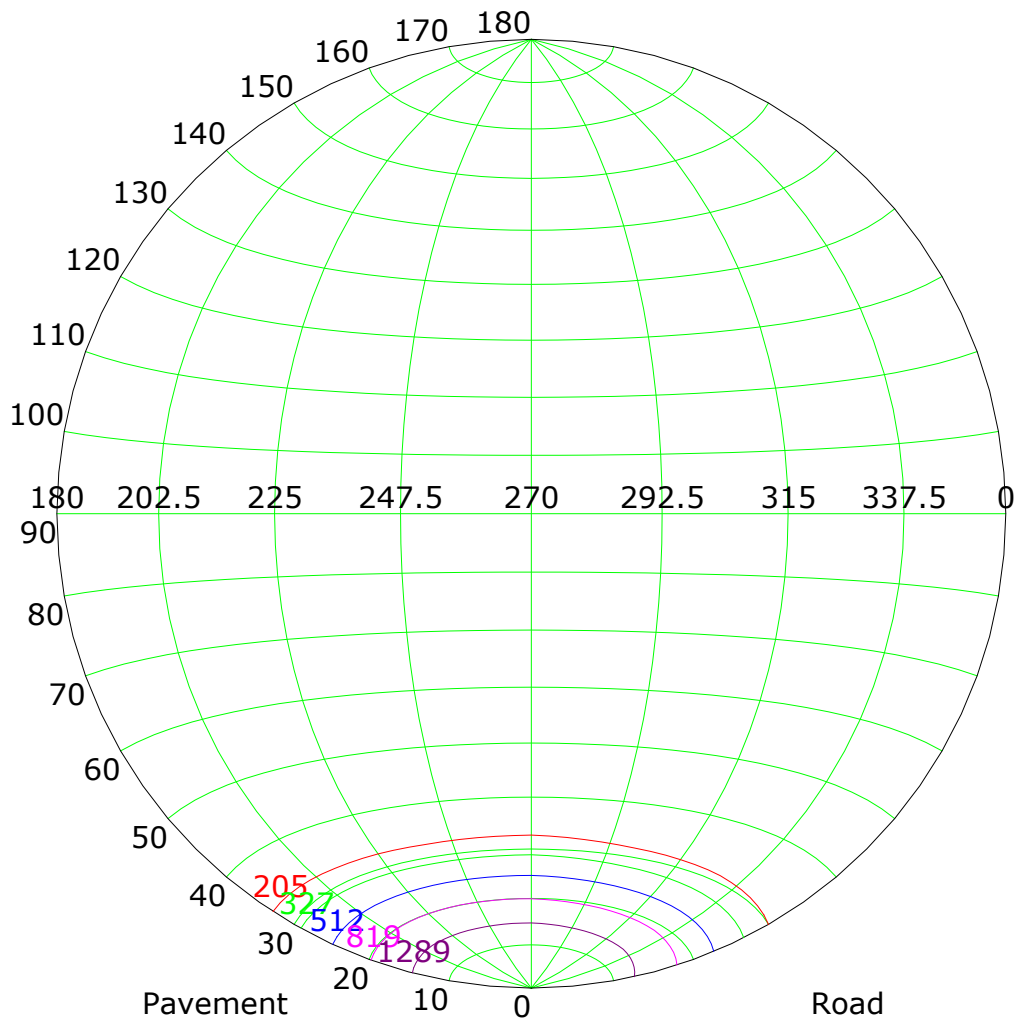
Imax (100%): 2047 cd

- |                   |                   |
|-------------------|-------------------|
| — ( 10%): 205 cd  | — ( 16%): 327 cd  |
| — ( 25%): 512 cd  | — ( 40%): 819 cd  |
| — ( 63%): 1289 cd | — (100%): 2047 cd |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Isocandela (sphere)



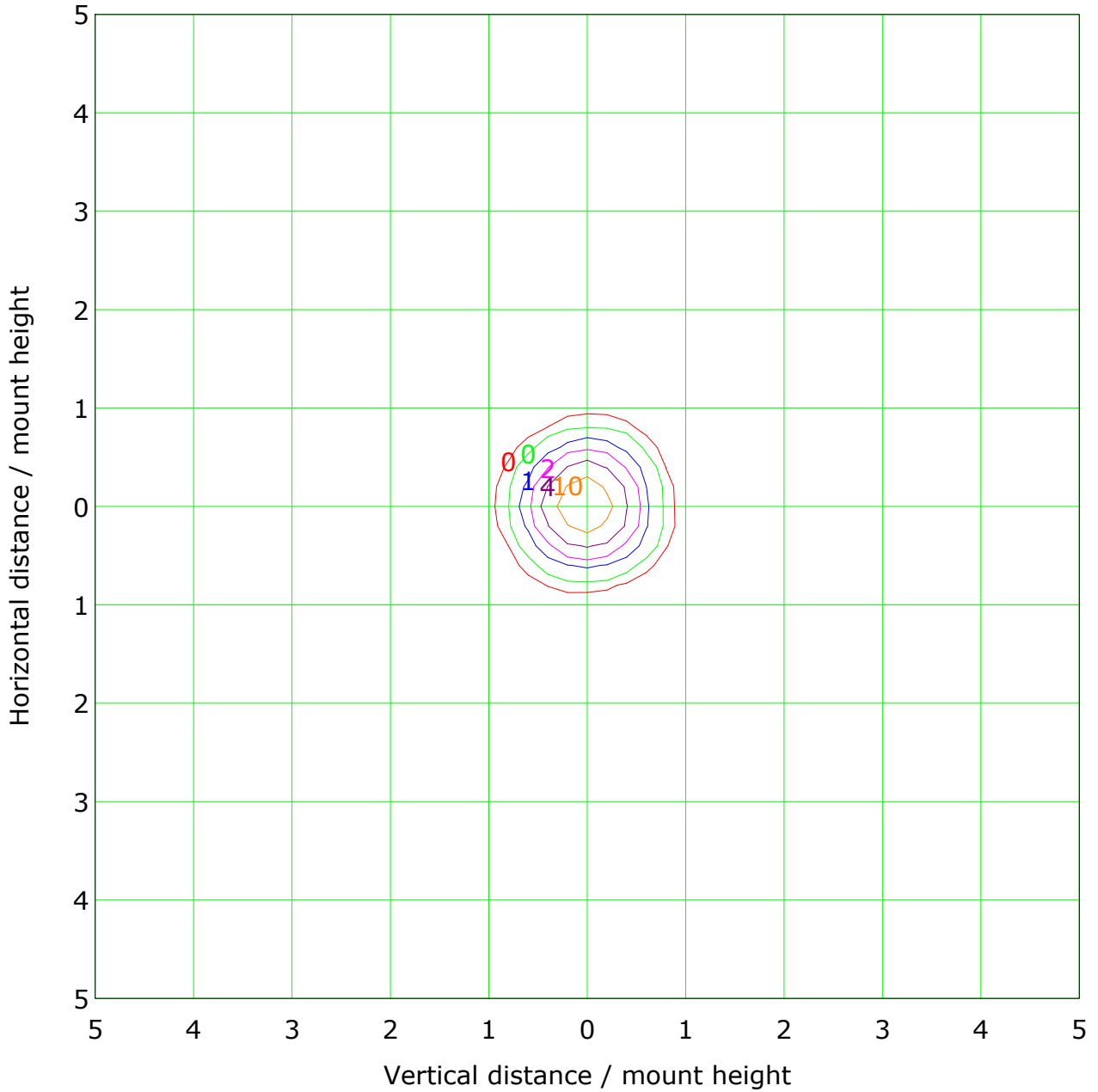
Imax (100%): 2047 cd

- |                   |                   |
|-------------------|-------------------|
| — ( 10%): 205 cd  | — ( 16%): 327 cd  |
| — ( 25%): 512 cd  | — ( 40%): 819 cd  |
| — ( 63%): 1289 cd | — (100%): 2047 cd |

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## IsoLux Plot



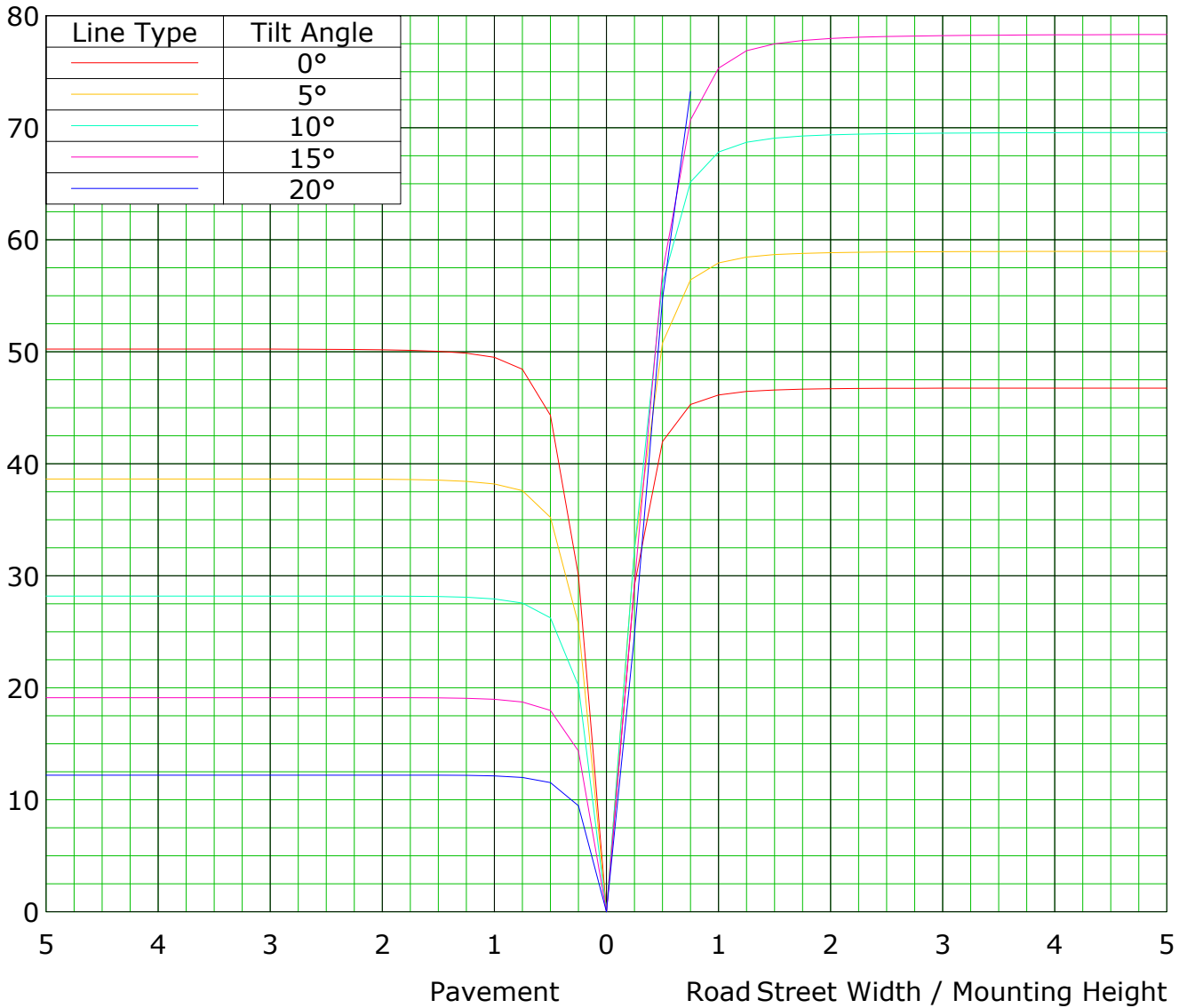
Mounting Height: 10.0m		Max Lux(100%): 20.4 lx	
— ( 1%):	0.2 lx	— ( 2%):	0.4 lx
— ( 5%):	1.0 lx	— ( 10%):	2.0 lx
— ( 20%):	4.1 lx	— ( 50%):	10.2 lx
— (100%):	20.4 lx		

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

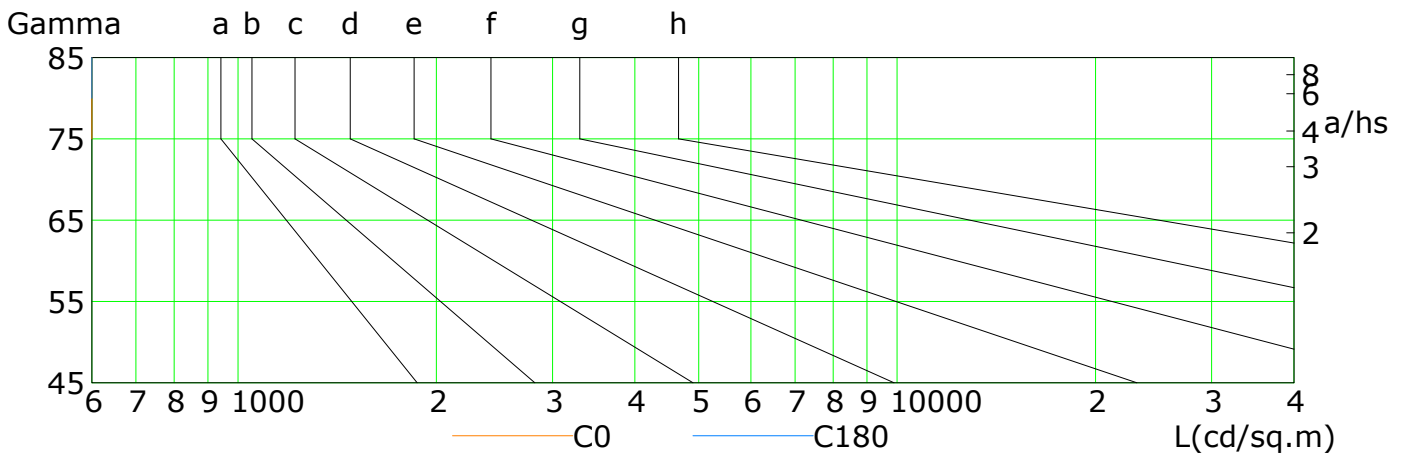
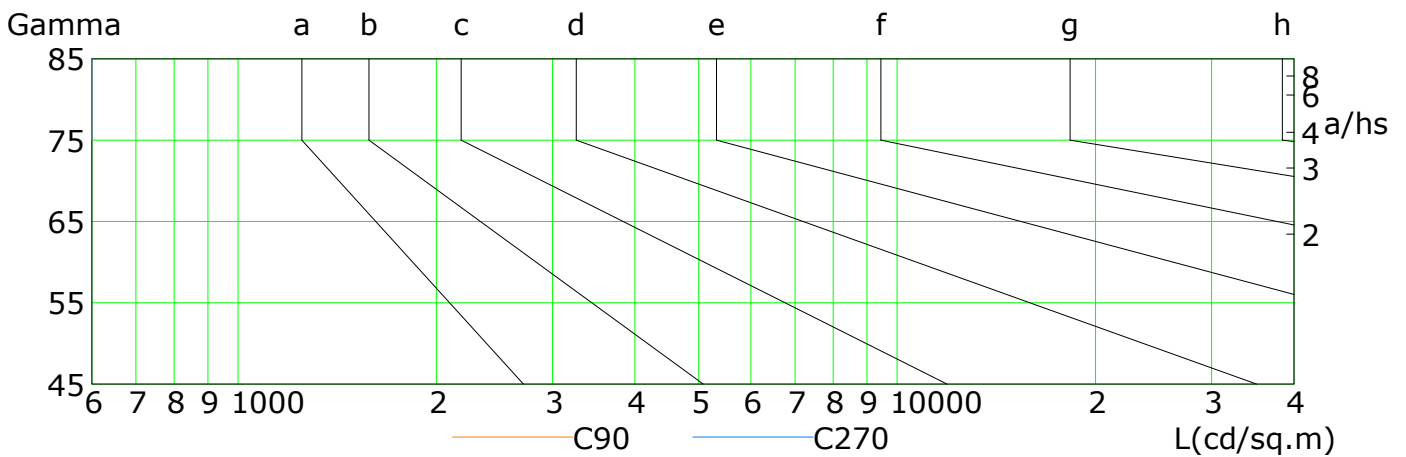
Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:



## Lum Limit Curve

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	27	16	8	6	4	1	0	0	0
C90	27	17	8	5	3	1	0	0	0
C180	34	21	13	8	6	2	1	0	0
C270	33	19	11	8	5	2	0	0	0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

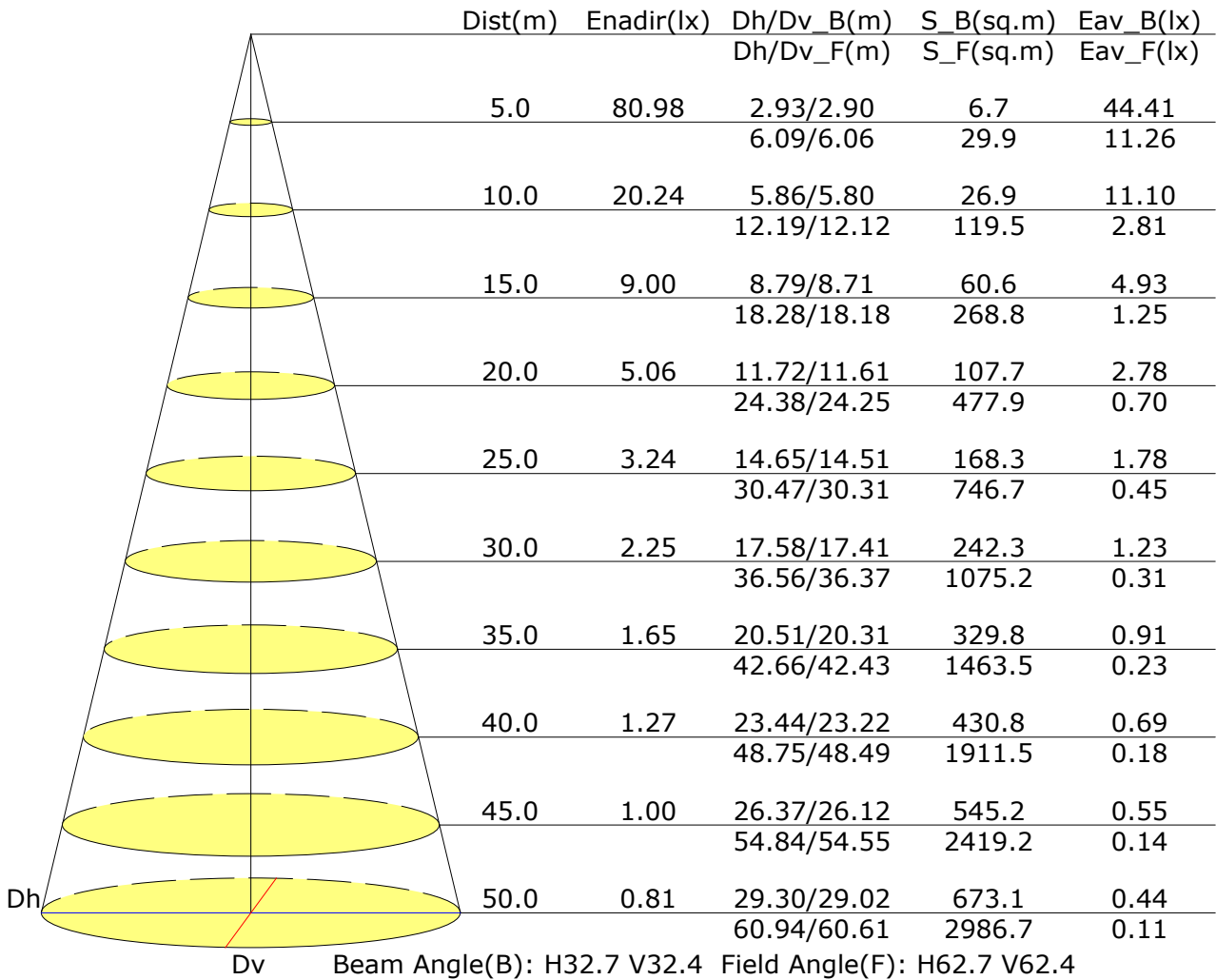
Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

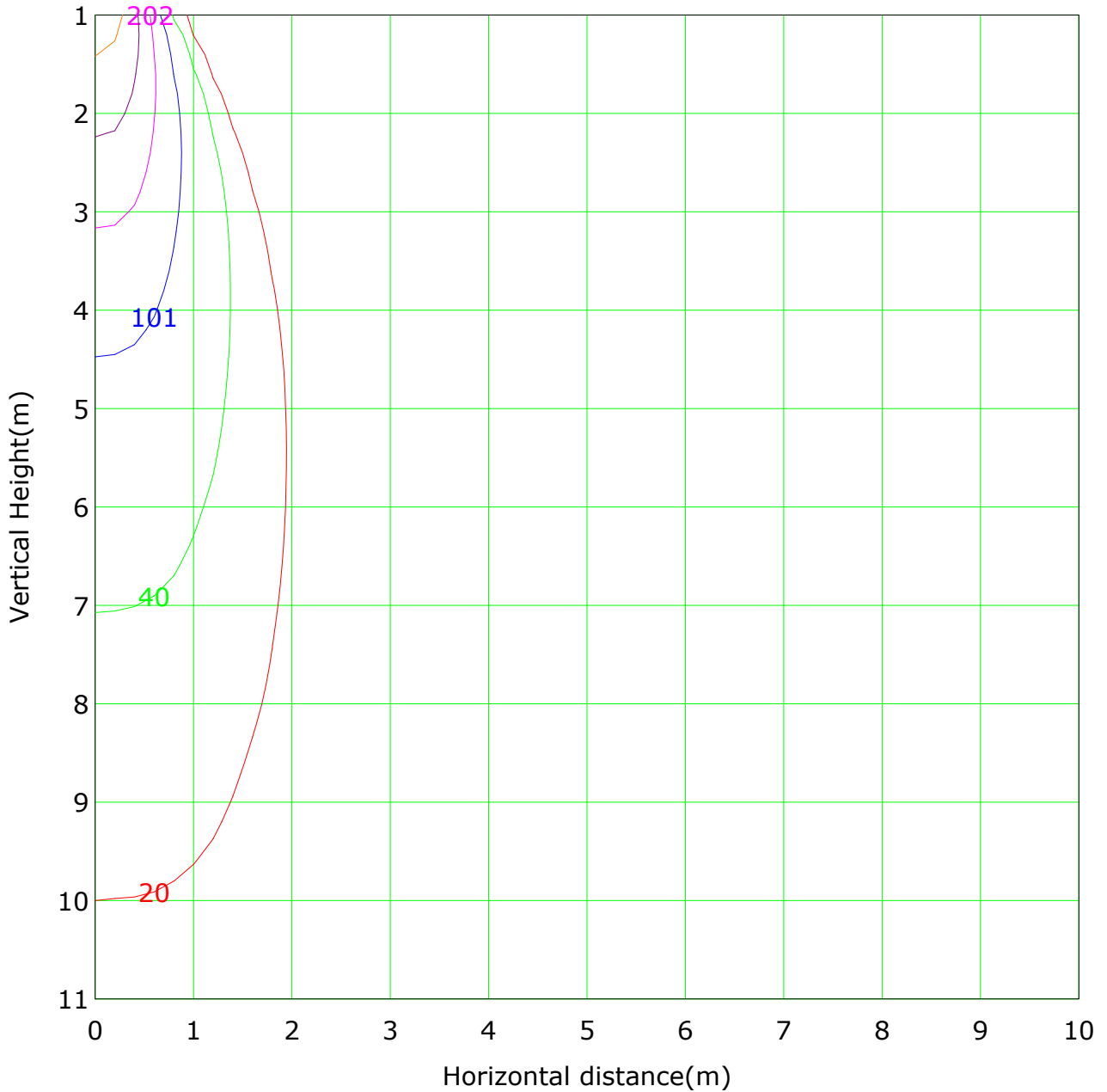
## Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2024.4 lx

( 1%): 20.2 lx

( 2%): 40.5 lx

( 5%): 101.2 lx

( 10%): 202.4 lx

( 20%): 404.9 lx

( 50%): 1012.2 lx

(100%): 2024.4 lx

C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°): 0.0-180.0: 1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

### Area Flux Table

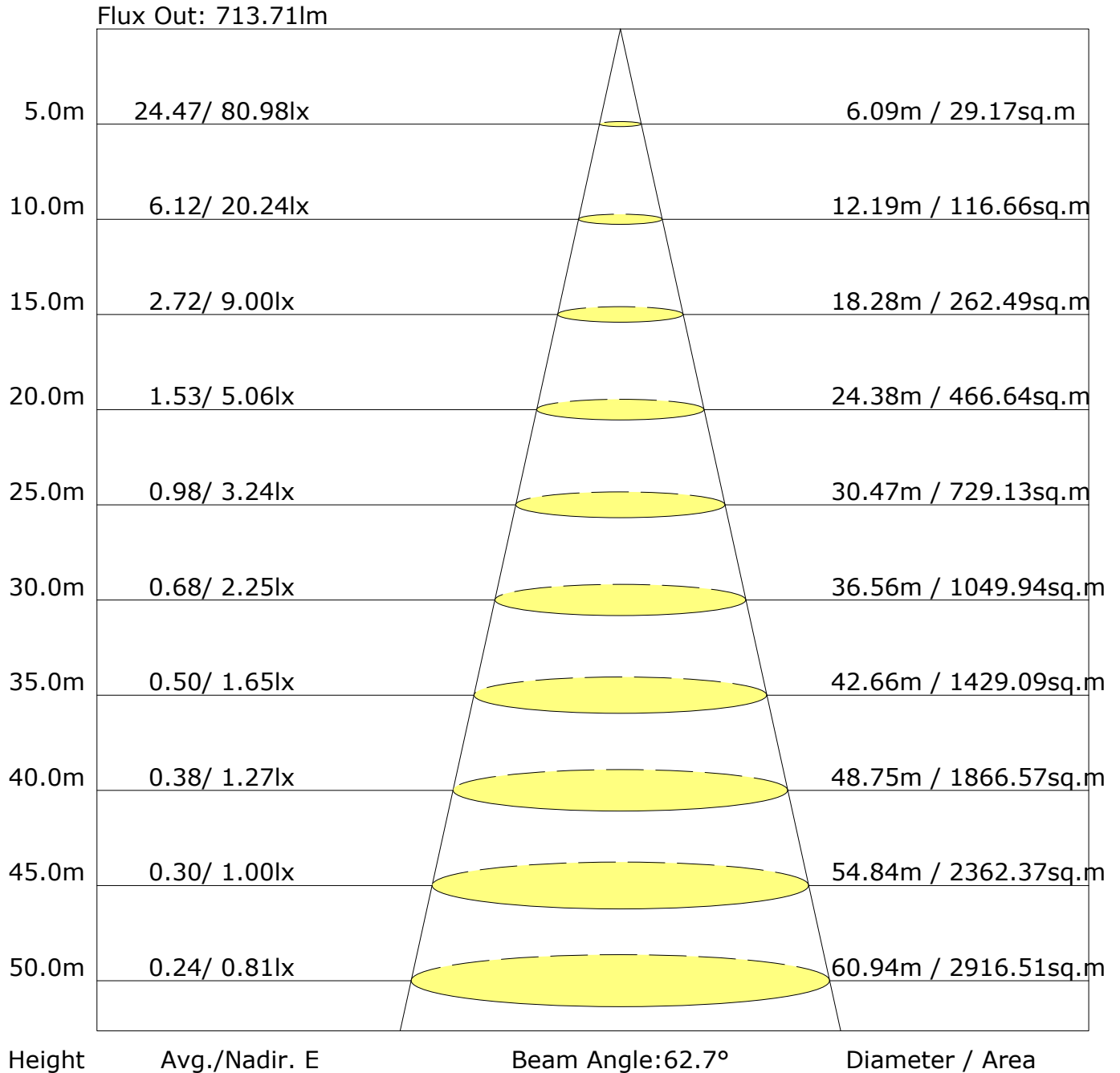
Unit: lm

		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)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)	Flux(T)
-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	0.0	0.0
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1.7
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	5.1	18.6
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	3.1	46.1
-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	122.6	200.8
-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	8197.4	112.2
-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4112.2	34.4
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	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	0.0	824	717
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	0.0	824	717

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H	-1.\$/-1.\$					-1.\$/-1.\$				
S=1.5H	-1.\$/-1.\$					-1.\$/-1.\$				
S=2.0H	-1.\$/-1.\$					-1.\$/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 834lm ( $8\log(F/F_0) = -0.6$ ).

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

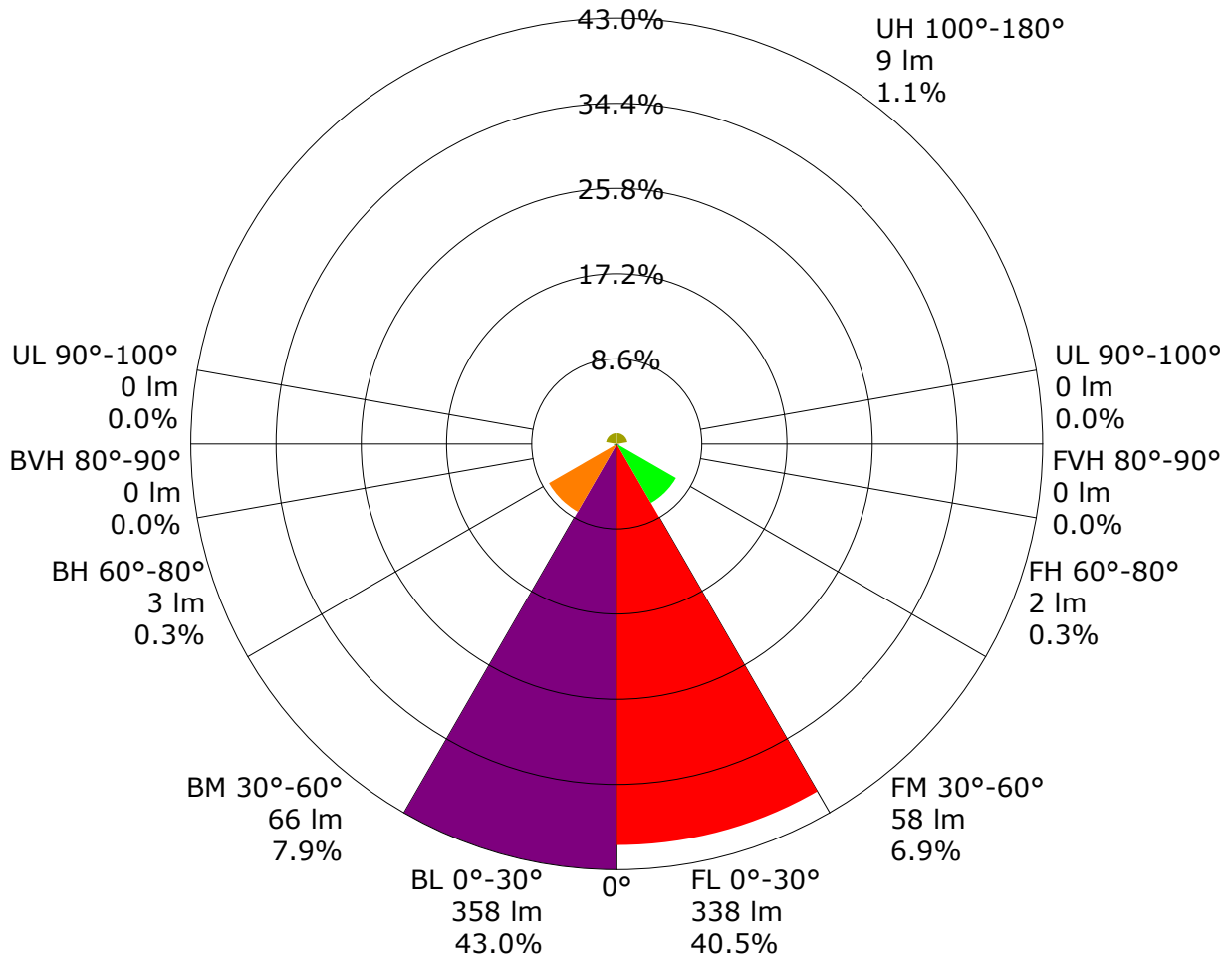
	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	398	47.7
	FL ( 0°-30°)	338	40.5
	FM (30°-60°)	58	6.9
	FH (60°-80°)	2	0.3
	FVH (80°-90°)	0	0.0
	BACK LIGHT	427	51.2
	BL ( 0°-30°)	358	43.0
	BM (30°-60°)	66	7.9
	BH (60°-80°)	3	0.3
	BVH (80°-90°)	0	0.0
	UP LIGHT	9	1.1
	UL (90°-100°)	0	0.0
	UH (100°-180°)	9	1.1
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

### LCS Graph



**Back Light**

**Forward Light**

Scale= MAX LCS%

Trapped Light:NA,NA



## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.91	0.96	1.00	1.02	1.05	1.08	1.09	1.11	1.12	
	0.30		0.87	0.93	0.96	0.99	1.03	1.05	1.07	1.09	1.11	
	0.20		0.84	0.90	0.93	0.96	1.00	1.03	1.05	1.07	1.09	
0.50	0.50	0.20	0.90	0.95	0.98	1.00	1.03	1.04	1.06	1.07	1.08	
	0.30		0.86	0.91	0.95	0.97	1.00	1.02	1.04	1.06	1.07	
	0.20		0.84	0.89	0.92	0.95	0.98	1.00	1.02	1.04	1.06	
0.30	0.50	0.20	0.89	0.93	0.96	0.97	1.00	1.01	1.02	1.03	1.04	
	0.30		0.86	0.90	0.93	0.95	0.98	1.00	1.01	1.02	1.03	
	0.20		0.83	0.88	0.91	0.93	0.96	0.98	0.99	1.01	1.02	
0.00	0.00	0.00	0.82	0.86	0.89	0.91	0.93	0.94	0.95	0.97	0.97	
<p>Rating:10W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75								
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	0.50	0.40	0.34	0.29	0.23	0.19	0.16	0.13	0.10
	0.30		0.41	0.34	0.30	0.26	0.21	0.18	0.15	0.12	0.10
	0.20		0.35	0.30	0.26	0.23	0.19	0.16	0.14	0.11	0.09
0.50	0.50	0.20	0.47	0.37	0.31	0.27	0.21	0.22	0.15	0.11	0.09
	0.30		0.40	0.32	0.28	0.24	0.19	0.16	0.14	0.11	0.09
	0.20		0.34	0.29	0.25	0.22	0.18	0.15	0.13	0.10	0.09
0.30	0.50	0.20	0.44	0.35	0.29	0.25	0.19	0.16	0.13	0.10	0.08
	0.30		0.38	0.31	0.26	0.22	0.18	0.15	0.13	0.10	0.08
	0.20		0.33	0.27	0.24	0.21	0.17	0.14	0.12	0.09	0.08
0.00	0.00	0.00	0.19	0.14	0.12	0.10	0.08	0.06	0.05	0.04	0.03
<p>Rating:10W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
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	0.13	0.15	0.16	0.17	0.19	0.20	0.20	0.21	0.22
	0.30		0.10	0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.21
	0.20		0.07	0.09	0.11	0.12	0.14	0.16	0.17	0.19	0.20
0.50	0.50	0.20	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.07	0.09	0.11	0.12	0.14	0.16	0.17	0.18	0.19
0.30	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20
	0.30		0.09	0.11	0.13	0.14	0.15	0.17	0.17	0.19	0.19
	0.20		0.07	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.18
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<p>Rating:10W Photometrically tested without ceiling board.            Multiply UF values by service correction factors            Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## 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	2027.7	1.9	1.9	0.23	0.23
1.0-2.0	2026.6	5.8	7.8	0.70	0.93
2.0-3.0	2018.1	9.7	17.4	1.16	2.09
3.0-4.0	2001.3	13.4	30.8	1.61	3.69
4.0-5.0	1975.5	17.0	47.8	2.04	5.73
5.0-6.0	1938.8	20.4	68.2	2.44	8.18
6.0-7.0	1891.2	23.5	91.7	2.82	10.99
7.0-8.0	1830.7	26.2	117.9	3.14	14.13
8.0-9.0	1757.6	28.5	146.4	3.42	17.55
9.0-10.0	1674.2	30.3	176.7	3.63	21.18
10.0-11.0	1584.6	31.7	208.3	3.80	24.98
11.0-12.0	1492.0	32.6	240.9	3.91	28.89
12.0-13.0	1394.4	33.1	274.0	3.97	32.86
13.0-14.0	1291.6	33.1	307.1	3.96	36.82
14.0-15.0	1191.1	32.7	339.8	3.92	40.75
15.0-16.0	1095.5	32.1	371.9	3.85	44.60
16.0-17.0	1003.0	31.2	403.1	3.75	48.34
17.0-18.0	916.6	30.2	433.4	3.62	51.97
18.0-19.0	836.2	29.1	462.5	3.49	55.46
19.0-20.0	761.8	27.9	490.4	3.34	58.80
20.0-21.0	694.8	26.7	517.0	3.20	62.00
21.0-22.0	633.1	25.4	542.5	3.05	65.05
22.0-23.0	573.7	24.1	566.6	2.89	67.94
23.0-24.0	518.2	22.7	589.2	2.72	70.65
24.0-25.0	468.3	21.3	610.5	2.55	73.21
25.0-26.0	421.7	19.9	630.4	2.39	75.59
26.0-27.0	377.4	18.5	648.9	2.21	77.81
27.0-28.0	337.2	17.1	666.0	2.05	79.86
28.0-29.0	301.2	15.8	681.7	1.89	81.75
29.0-30.0	267.6	14.5	696.2	1.73	83.48
30.0-31.0	236.5	13.2	709.3	1.58	85.06
31.0-32.0	208.2	11.9	721.3	1.43	86.49
32.0-33.0	182.8	10.8	732.0	1.29	87.78
33.0-34.0	160.1	9.7	741.7	1.16	88.94
34.0-35.0	139.7	8.7	750.4	1.04	89.98
35.0-36.0	121.2	7.7	758.1	0.93	90.91

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 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	105.1	6.9	765.0	0.82	91.73
37.0-38.0	91.2	6.1	771.1	0.73	92.46
38.0-39.0	78.9	5.4	776.5	0.65	93.11
39.0-40.0	68.3	4.8	781.2	0.57	93.68
40.0-41.0	59.4	4.2	785.5	0.51	94.18
41.0-42.0	52.1	3.8	789.2	0.45	94.64
42.0-43.0	45.7	3.4	792.6	0.41	95.04
43.0-44.0	40.4	3.0	795.7	0.37	95.41
44.0-45.0	36.0	2.8	798.4	0.33	95.74
45.0-46.0	32.2	2.5	801.0	0.30	96.04
46.0-47.0	29.0	2.3	803.3	0.28	96.32
47.0-48.0	26.3	2.1	805.4	0.26	96.58
48.0-49.0	23.9	2.0	807.4	0.24	96.81
49.0-50.0	21.7	1.8	809.2	0.22	97.03
50.0-51.0	19.6	1.7	810.8	0.20	97.23
51.0-52.0	17.5	1.5	812.3	0.18	97.41
52.0-53.0	15.4	1.3	813.7	0.16	97.57
53.0-54.0	13.7	1.2	814.9	0.15	97.71
54.0-55.0	12.3	1.1	816.0	0.13	97.84
55.0-56.0	10.8	1.0	817.0	0.12	97.96
56.0-57.0	9.5	0.9	817.8	0.10	98.07
57.0-58.0	8.6	0.8	818.6	0.10	98.16
58.0-59.0	7.9	0.7	819.4	0.09	98.25
59.0-60.0	7.3	0.7	820.1	0.08	98.33
60.0-61.0	6.7	0.6	820.7	0.08	98.41
61.0-62.0	6.1	0.6	821.3	0.07	98.48
62.0-63.0	5.5	0.5	821.8	0.06	98.55
63.0-64.0	5.0	0.5	822.3	0.06	98.60
64.0-65.0	4.4	0.4	822.7	0.05	98.66
65.0-66.0	3.7	0.4	823.1	0.04	98.70
66.0-67.0	3.2	0.3	823.4	0.04	98.74
67.0-68.0	2.6	0.3	823.7	0.03	98.77
68.0-69.0	2.2	0.2	823.9	0.03	98.80
69.0-70.0	1.8	0.2	824.1	0.02	98.82
70.0-71.0	1.6	0.2	824.3	0.02	98.84
71.0-72.0	1.4	0.1	824.4	0.02	98.86

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	1.1	0.1	824.5	0.01	98.87
73.0-74.0	0.9	0.1	824.6	0.01	98.88
74.0-75.0	0.6	0.1	824.7	0.01	98.89
75.0-76.0	0.3	0.0	824.7	0.00	98.89
76.0-77.0	0.2	0.0	824.8	0.00	98.90
77.0-78.0	0.1	0.0	824.8	0.00	98.90
78.0-79.0	0.0	0.0	824.8	0.00	98.90
79.0-80.0	0.0	0.0	824.8	0.00	98.90
80.0-81.0	0.0	0.0	824.8	0.00	98.90
81.0-82.0	0.0	0.0	824.8	0.00	98.90
82.0-83.0	0.0	0.0	824.8	0.00	98.90
83.0-84.0	0.0	0.0	824.8	0.00	98.90
84.0-85.0	0.0	0.0	824.8	0.00	98.90
85.0-86.0	0.0	0.0	824.8	0.00	98.90
86.0-87.0	0.0	0.0	824.8	0.00	98.90
87.0-88.0	0.0	0.0	824.8	0.00	98.90
88.0-89.0	0.0	0.0	824.8	0.00	98.90
89.0-90.0	0.0	0.0	824.8	0.00	98.90
90.0-91.0	0.0	0.0	824.8	0.00	98.90
91.0-92.0	0.0	0.0	824.8	0.00	98.90
92.0-93.0	0.0	0.0	824.8	0.00	98.90
93.0-94.0	0.0	0.0	824.8	0.00	98.90
94.0-95.0	0.0	0.0	824.8	0.00	98.90
95.0-96.0	0.0	0.0	824.8	0.00	98.90
96.0-97.0	0.0	0.0	824.8	0.00	98.90
97.0-98.0	0.0	0.0	824.8	0.00	98.90
98.0-99.0	0.0	0.0	824.8	0.00	98.90
99.0-100.0	0.0	0.0	824.8	0.00	98.90
100.0-101.0	0.0	0.0	824.8	0.00	98.90
101.0-102.0	0.0	0.0	824.8	0.00	98.90
102.0-103.0	0.0	0.0	824.8	0.00	98.90
103.0-104.0	0.0	0.0	824.8	0.00	98.90
104.0-105.0	0.0	0.0	824.8	0.00	98.90
105.0-106.0	0.0	0.0	824.8	0.00	98.90
106.0-107.0	0.0	0.0	824.8	0.00	98.90
107.0-108.0	0.0	0.0	824.8	0.00	98.90

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

### Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.0	0.0	824.8	0.00	98.90
109.0-110.0	0.0	0.0	824.8	0.00	98.90
110.0-111.0	0.0	0.0	824.8	0.00	98.90
111.0-112.0	0.0	0.0	824.8	0.00	98.90
112.0-113.0	0.0	0.0	824.8	0.00	98.90
113.0-114.0	0.0	0.0	824.8	0.00	98.90
114.0-115.0	0.0	0.0	824.8	0.00	98.90
115.0-116.0	0.0	0.0	824.8	0.00	98.90
116.0-117.0	0.0	0.0	824.8	0.00	98.90
117.0-118.0	0.0	0.0	824.8	0.00	98.90
118.0-119.0	0.0	0.0	824.8	0.00	98.90
119.0-120.0	0.0	0.0	824.8	0.00	98.90
120.0-121.0	0.0	0.0	824.8	0.00	98.90
121.0-122.0	0.0	0.0	824.8	0.00	98.90
122.0-123.0	0.0	0.0	824.8	0.00	98.90
123.0-124.0	0.0	0.0	824.8	0.00	98.90
124.0-125.0	0.1	0.0	824.8	0.00	98.90
125.0-126.0	0.3	0.0	824.8	0.00	98.91
126.0-127.0	0.3	0.0	824.8	0.00	98.91
127.0-128.0	0.3	0.0	824.9	0.00	98.91
128.0-129.0	0.6	0.1	824.9	0.01	98.92
129.0-130.0	0.8	0.1	825.0	0.01	98.93
130.0-131.0	0.8	0.1	825.1	0.01	98.93
131.0-132.0	1.0	0.1	825.1	0.01	98.94
132.0-133.0	1.3	0.1	825.2	0.01	98.95
133.0-134.0	1.4	0.1	825.3	0.01	98.97
134.0-135.0	1.6	0.1	825.5	0.01	98.98
135.0-136.0	1.7	0.1	825.6	0.02	99.00
136.0-137.0	1.9	0.1	825.7	0.02	99.02
137.0-138.0	2.0	0.1	825.9	0.02	99.03
138.0-139.0	2.2	0.2	826.1	0.02	99.05
139.0-140.0	2.3	0.2	826.2	0.02	99.07
140.0-141.0	2.5	0.2	826.4	0.02	99.09
141.0-142.0	2.8	0.2	826.6	0.02	99.12
142.0-143.0	3.0	0.2	826.8	0.02	99.14
143.0-144.0	3.2	0.2	827.0	0.03	99.17

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

### Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.4	0.2	827.2	0.03	99.19
145.0-146.0	3.6	0.2	827.4	0.03	99.22
146.0-147.0	3.8	0.2	827.7	0.03	99.25
147.0-148.0	4.1	0.2	827.9	0.03	99.28
148.0-149.0	4.3	0.2	828.2	0.03	99.31
149.0-150.0	4.6	0.3	828.4	0.03	99.34
150.0-151.0	4.8	0.3	828.7	0.03	99.37
151.0-152.0	5.0	0.3	828.9	0.03	99.40
152.0-153.0	5.3	0.3	829.2	0.03	99.43
153.0-154.0	5.5	0.3	829.5	0.03	99.46
154.0-155.0	5.8	0.3	829.7	0.03	99.50
155.0-156.0	6.0	0.3	830.0	0.03	99.53
156.0-157.0	6.2	0.3	830.3	0.03	99.56
157.0-158.0	6.4	0.3	830.6	0.03	99.59
158.0-159.0	6.6	0.3	830.8	0.03	99.63
159.0-160.0	6.8	0.3	831.1	0.03	99.66
160.0-161.0	7.0	0.3	831.3	0.03	99.69
161.0-162.0	7.1	0.2	831.6	0.03	99.72
162.0-163.0	7.2	0.2	831.8	0.03	99.75
163.0-164.0	7.3	0.2	832.1	0.03	99.77
164.0-165.0	7.5	0.2	832.3	0.03	99.80
165.0-166.0	7.6	0.2	832.5	0.02	99.82
166.0-167.0	7.6	0.2	832.7	0.02	99.85
167.0-168.0	7.7	0.2	832.9	0.02	99.87
168.0-169.0	7.7	0.2	833.0	0.02	99.89
169.0-170.0	7.8	0.2	833.2	0.02	99.91
170.0-171.0	7.9	0.1	833.3	0.02	99.93
171.0-172.0	7.9	0.1	833.5	0.02	99.94
172.0-173.0	8.0	0.1	833.6	0.01	99.95
173.0-174.0	8.0	0.1	833.7	0.01	99.97
174.0-175.0	8.1	0.1	833.8	0.01	99.98
175.0-176.0	8.1	0.1	833.8	0.01	99.98
176.0-177.0	8.2	0.1	833.9	0.01	99.99
177.0-178.0	8.2	0.0	833.9	0.00	100.00
178.0-179.0	8.2	0.0	833.9	0.00	100.00
179.0-180.0	8.2	0.0	834.0	0.00	100.00

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:



## Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	2024.4	2021.9	2022.1	2025.6	2030.2	2038.7	2024.4	2021.9	2022.1	2025.6
G1.0	2016.8	2036.9	2038.6	2024.6	2041.6	2042.6	2024.1	2018.3	2016.4	2027.0
G2.0	2018.3	2034.8	2038.5	2014.3	2039.9	2046.7	2031.4	2018.7	2000.1	2033.3
G3.0	1999.6	2018.2	2021.6	2000.2	2015.9	2031.2	2027.2	2014.6	1991.0	2028.7
G4.0	1991.5	1994.9	1984.5	1965.2	1979.9	1992.4	2037.4	2009.8	1978.8	2021.2
G5.0	1942.2	1949.0	1941.7	1922.8	1932.4	1943.7	2025.3	2007.4	1960.8	1998.9
G6.0	1895.2	1885.4	1873.5	1854.7	1866.1	1883.4	1991.5	1988.5	1946.7	1983.4
G7.0	1829.8	1812.7	1794.2	1775.0	1787.3	1814.6	1953.2	1962.6	1924.7	1949.2
G8.0	1752.6	1726.2	1702.4	1684.8	1702.4	1720.5	1885.0	1916.2	1883.5	1902.7
G9.0	1646.8	1629.5	1620.2	1583.6	1608.8	1629.4	1818.9	1844.0	1835.6	1843.3
G10.0	1541.2	1529.1	1523.1	1474.4	1504.3	1551.1	1726.3	1771.2	1767.7	1764.2
G11.0	1445.8	1438.0	1434.1	1384.5	1414.6	1462.3	1640.1	1676.4	1688.0	1671.7
G12.0	1357.1	1350.9	1339.8	1294.3	1321.0	1361.6	1545.7	1581.7	1594.3	1574.6
G13.0	1248.8	1253.5	1242.5	1199.1	1231.4	1265.4	1448.0	1482.9	1490.1	1468.9
G14.0	1143.9	1147.4	1137.9	1092.8	1137.8	1172.8	1342.4	1370.8	1376.1	1373.9
G15.0	1049.2	1054.2	1051.1	999.4	1038.5	1089.6	1243.5	1271.9	1273.8	1271.1
G16.0	956.1	963.6	970.5	914.6	950.8	999.2	1140.8	1171.9	1175.9	1172.2
G17.0	870.8	883.3	892.7	839.1	873.3	915.1	1047.7	1074.7	1071.2	1066.0
G18.0	793.8	806.2	819.2	765.4	799.9	839.0	959.9	977.4	979.4	976.4
G19.0	718.5	731.1	748.2	687.9	729.5	771.4	870.8	892.3	896.3	889.8
G20.0	651.5	664.3	684.5	628.4	667.4	705.0	795.6	814.1	820.4	813.1
G21.0	591.0	606.3	629.2	570.9	612.7	648.7	727.5	743.7	747.4	738.5
G22.0	530.1	548.3	575.6	517.7	560.4	597.1	662.8	676.1	681.4	670.8
G23.0	479.9	493.5	520.0	462.9	505.7	549.9	602.0	608.7	611.5	602.6
G24.0	431.2	444.6	472.4	417.1	461.6	504.3	548.3	551.1	550.1	546.9
G25.0	386.2	401.4	431.3	375.5	417.6	459.8	497.0	495.9	495.9	495.1
G26.0	340.9	354.6	386.0	335.3	379.5	421.6	449.7	447.6	444.4	444.8
G27.0	303.1	317.7	350.0	295.9	340.3	388.4	399.8	396.3	390.5	395.0
G28.0	267.8	282.7	317.6	262.1	306.7	356.6	358.5	352.8	347.4	354.0
G29.0	236.3	251.3	286.1	231.3	276.0	321.3	321.8	314.1	309.1	315.8
G30.0	204.6	222.7	257.8	203.7	246.4	292.4	288.0	276.7	269.7	279.1
G31.0	179.2	193.2	229.1	178.8	219.9	263.0	254.6	241.6	236.0	243.5
G32.0	155.7	170.2	204.4	154.9	191.8	237.1	222.6	210.4	206.6	214.8
G33.0	134.4	149.3	182.4	135.0	169.4	209.1	194.9	183.0	181.2	188.0
G34.0	115.8	130.6	161.6	117.5	148.5	187.2	170.8	159.8	157.9	165.2
G35.0	97.8	111.3	141.2	100.8	130.6	165.4	148.8	138.3	137.7	143.7
G36.0	84.6	96.3	124.1	87.8	112.5	146.2	129.3	117.8	118.5	123.1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	72.3	83.3	108.6	76.1	97.9	128.8	109.0	101.7	103.4	106.5
G38.0	62.6	72.2	94.5	66.4	84.2	111.2	93.7	87.7	90.4	92.0
G39.0	53.6	61.3	81.1	57.3	72.2	96.6	80.5	75.5	79.0	79.1
G40.0	46.7	52.7	70.5	49.9	62.8	83.5	69.4	64.4	69.3	66.9
G41.0	40.9	46.0	61.2	43.7	54.9	72.5	58.8	56.2	62.0	57.9
G42.0	36.4	40.0	52.9	39.0	47.6	62.2	50.7	49.1	55.5	50.5
G43.0	32.2	34.5	45.9	34.3	41.5	54.1	44.2	43.0	49.9	43.3
G44.0	29.3	30.4	39.9	30.4	36.0	46.9	38.7	38.5	45.4	37.8
G45.0	26.5	27.1	35.0	27.5	31.7	40.1	33.8	34.8	41.6	33.2
G46.0	24.0	24.5	31.0	24.7	28.0	35.2	30.2	31.6	37.7	29.4
G47.0	22.4	22.0	27.4	22.4	24.9	30.9	27.2	28.9	34.8	26.0
G48.0	20.6	20.6	24.9	20.5	21.8	27.2	24.9	26.2	31.9	23.5
G49.0	18.6	18.9	22.7	18.6	19.3	23.2	22.9	23.9	29.1	21.4
G50.0	16.0	17.4	21.0	17.0	16.9	19.9	21.1	22.0	27.1	19.4
G51.0	13.8	15.2	18.3	15.0	15.3	17.7	19.7	20.2	24.8	17.9
G52.0	11.4	12.7	16.5	12.0	13.3	16.1	18.1	18.8	23.0	16.7
G53.0	9.7	11.3	15.2	9.9	11.6	14.7	16.2	17.0	20.9	15.0
G54.0	9.0	10.5	13.7	8.7	10.4	13.5	14.7	15.6	19.0	13.4
G55.0	8.1	9.9	12.1	7.8	9.8	12.7	12.6	14.0	17.3	11.4
G56.0	7.5	9.4	11.3	7.2	9.1	11.9	10.9	11.0	13.7	9.9
G57.0	7.0	8.8	10.7	6.8	8.6	11.3	10.0	9.1	11.1	9.3
G58.0	6.5	8.2	9.9	6.3	8.0	10.5	9.2	8.1	9.5	8.5
G59.0	6.1	7.4	9.1	5.5	7.4	9.8	8.7	7.5	8.0	8.1
G60.0	5.6	7.1	8.2	5.0	7.0	9.1	8.3	6.9	6.9	7.5
G61.0	5.3	6.5	7.3	4.7	6.5	8.4	7.8	6.5	5.9	7.2
G62.0	4.8	6.0	6.2	4.4	5.8	7.6	7.3	5.8	5.4	6.6
G63.0	4.6	5.2	5.2	3.9	5.3	6.7	6.8	5.3	5.0	6.0
G64.0	4.2	4.5	4.1	3.4	4.4	5.7	6.3	4.8	4.5	5.7
G65.0	3.5	3.7	3.0	2.8	3.6	4.4	5.6	4.4	4.2	5.2
G66.0	2.8	2.7	2.3	2.0	2.7	3.4	5.0	4.1	4.3	4.5
G67.0	2.1	2.1	2.1	1.6	2.1	2.8	4.1	3.5	3.8	3.9
G68.0	1.7	1.8	1.8	1.1	1.8	2.5	2.9	2.8	3.3	2.8
G69.0	1.5	1.6	1.6	1.0	1.7	2.3	2.1	2.3	3.0	2.0
G70.0	1.4	1.5	1.5	1.0	1.5	2.1	1.7	1.7	2.4	1.9
G71.0	1.0	1.4	1.4	1.0	1.4	2.1	1.6	1.4	2.0	1.6
G72.0	0.0	1.5	1.3	0.0	1.2	2.0	1.5	1.1	1.7	1.4
G73.0	0.0	1.2	1.1	0.0	1.2	1.9	1.4	0.0	1.6	1.1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

## Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	0.0	1.1	1.0	0.0	1.0	1.7	1.2	0.0	1.5	1.0
G75.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	1.2	0.0
G76.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.4	0.0
G77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
G78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
G79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

## Candlepower Table (Continue 3)

Unit: cd

G/C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G118.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G123.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
G124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G125.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0
G126.0	0.0	0.0	0.0	0.0	1.0	1.1	0.0	0.0	0.0	0.0
G127.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0
G128.0	1.0	0.0	0.0	0.0	1.1	1.2	0.0	0.0	0.0	0.0
G129.0	1.0	1.1	0.0	0.0	1.1	1.4	0.0	1.0	1.0	1.0
G130.0	1.0	1.3	0.0	1.0	1.4	1.4	0.0	0.0	1.1	0.0
G131.0	1.3	1.2	1.1	1.1	1.4	1.2	0.0	0.0	0.0	0.0
G132.0	1.2	1.4	1.2	1.2	1.5	1.5	1.1	1.0	1.2	0.0
G133.0	1.4	1.5	1.2	1.4	1.8	1.7	1.3	1.1	1.3	1.1
G134.0	1.6	1.6	1.4	1.5	1.7	1.9	1.3	1.1	1.6	1.2
G135.0	1.8	1.8	1.6	1.7	1.9	1.9	1.4	1.4	1.7	1.3
G136.0	1.8	1.9	1.6	1.8	2.1	2.0	1.6	1.5	1.8	1.4
G137.0	2.1	2.2	1.8	2.0	2.5	2.3	1.8	1.6	1.8	1.5
G138.0	2.3	2.3	2.1	2.1	2.6	2.5	1.8	1.8	1.9	1.7
G139.0	2.3	2.4	2.3	2.3	2.8	2.5	2.0	1.9	2.1	1.9
G140.0	2.6	2.7	2.4	2.5	2.7	2.6	2.4	2.1	2.3	2.1
G141.0	3.0	3.0	2.7	2.7	2.9	2.9	2.5	2.2	2.5	2.4
G142.0	3.0	2.9	2.9	3.1	3.1	3.2	2.6	2.5	2.8	2.6
G143.0	3.3	3.3	3.2	3.3	3.3	3.4	2.8	2.8	3.0	2.8
G144.0	3.5	3.5	3.3	3.6	3.6	3.4	3.0	3.0	3.1	2.8
G145.0	3.8	3.9	3.5	3.8	3.9	3.8	3.3	3.2	3.3	3.0
G146.0	4.1	4.1	3.7	4.0	4.1	4.0	3.4	3.3	3.5	3.3
G147.0	4.4	4.2	4.0	4.1	4.2	4.2	3.6	3.7	3.7	3.6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

## Candlepower Table (Continue 4)

Unit: cd

G/C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	4.7	4.6	4.3	4.4	4.5	4.5	4.0	3.9	4.2	3.8
G149.0	4.9	4.7	4.6	4.6	4.7	4.8	4.0	4.0	4.3	4.0
G150.0	5.0	5.1	4.8	4.9	4.9	5.0	4.2	4.3	4.6	4.3
G151.0	5.2	5.2	5.1	5.1	5.3	5.3	4.5	4.6	4.8	4.5
G152.0	5.6	5.5	5.1	5.4	5.6	5.5	4.9	4.9	5.0	4.6
G153.0	5.6	5.8	5.6	5.6	5.9	5.8	5.1	5.1	5.2	5.0
G154.0	5.9	6.1	5.6	5.8	6.1	6.0	5.2	5.4	5.4	5.2
G155.0	6.1	6.2	5.9	6.2	6.4	6.3	5.4	5.7	5.7	5.4
G156.0	6.4	6.4	6.2	6.2	6.4	6.4	5.7	5.7	6.0	5.7
G157.0	6.6	6.6	6.4	6.5	6.7	6.6	6.0	5.9	6.0	5.8
G158.0	6.8	6.8	6.5	6.8	6.8	6.7	6.3	6.1	6.2	6.1
G159.0	6.9	7.1	6.7	6.5	7.0	7.1	6.5	6.4	6.6	6.2
G160.0	7.1	7.2	6.9	6.9	7.2	7.1	6.6	6.7	6.8	6.6
G161.0	7.1	7.3	7.2	6.8	7.3	7.2	7.0	6.9	7.2	6.9
G162.0	7.3	7.4	7.0	7.1	7.5	7.2	7.1	7.1	7.3	6.9
G163.0	7.3	7.7	7.2	7.2	7.5	7.4	7.2	7.2	7.5	6.9
G164.0	7.4	7.8	7.3	7.2	7.6	7.4	7.4	7.2	7.6	7.1
G165.0	7.7	7.8	7.5	7.2	7.8	7.7	7.5	7.3	7.6	7.4
G166.0	7.8	7.8	7.4	7.5	7.7	7.7	7.3	7.5	7.7	7.4
G167.0	7.8	8.0	7.3	7.5	7.9	7.7	7.4	7.7	7.8	7.6
G168.0	7.8	8.0	7.5	7.6	7.9	7.7	7.5	7.7	7.9	7.5
G169.0	7.7	7.8	7.6	7.3	7.9	8.0	7.6	7.7	8.1	7.5
G170.0	8.0	8.1	7.7	7.5	8.0	8.2	7.7	7.7	8.1	7.7
G171.0	8.1	8.2	7.8	7.4	7.8	8.1	7.9	8.0	8.3	7.7
G172.0	8.0	8.1	7.7	7.6	8.0	8.0	7.7	7.9	8.4	7.9
G173.0	8.1	8.1	7.9	7.5	8.1	8.1	7.8	8.0	8.4	8.0
G174.0	8.3	8.2	8.1	7.8	8.1	8.1	7.9	7.8	8.3	7.9
G175.0	8.3	8.4	8.0	7.7	8.1	8.2	7.8	8.1	8.5	8.1
G176.0	8.5	8.2	8.1	8.0	8.3	8.4	8.0	8.0	8.1	8.1
G177.0	8.5	8.2	8.1	7.8	8.3	8.3	8.2	8.1	8.4	8.2
G178.0	8.3	8.2	8.2	8.0	8.4	8.3	8.2	8.3	8.5	8.1
G179.0	8.1	8.2	8.0	8.1	8.3	8.4	8.4	8.3	8.4	8.1
G180.0	8.2	8.2	8.1	8.0	8.5	8.3	8.3	8.1	8.5	8.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

### Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	2030.2	2038.7	2024.4							
G1.0	2024.3	2027.4	2016.8							
G2.0	2017.5	2006.0	2018.3							
G3.0	2006.4	1980.4	1999.6							
G4.0	1990.9	1950.3	1991.5							
G5.0	1962.9	1928.9	1942.2							
G6.0	1941.5	1906.1	1895.2							
G7.0	1907.3	1862.3	1829.8							
G8.0	1861.8	1825.0	1752.6							
G9.0	1806.0	1752.6	1646.8							
G10.0	1731.6	1677.8	1541.2							
G11.0	1633.1	1579.2	1445.8							
G12.0	1535.0	1483.7	1357.1							
G13.0	1422.7	1371.8	1248.8							
G14.0	1319.8	1257.7	1143.9							
G15.0	1215.9	1155.7	1049.2							
G16.0	1117.1	1045.6	956.1							
G17.0	1005.8	955.2	870.8							
G18.0	916.5	871.2	793.8							
G19.0	837.4	791.2	718.5							
G20.0	760.6	713.4	651.5							
G21.0	691.6	649.5	591.0							
G22.0	629.5	588.0	530.1							
G23.0	564.5	528.7	479.9							
G24.0	508.8	469.9	431.2							
G25.0	456.0	420.7	386.2							
G26.0	409.1	374.9	340.9							
G27.0	359.9	332.9	303.1							
G28.0	321.0	295.8	267.8							
G29.0	284.1	259.4	236.3							
G30.0	247.0	228.5	204.6							
G31.0	217.5	203.3	179.2							
G32.0	190.1	178.3	155.7							
G33.0	166.0	157.2	134.4							
G34.0	143.3	135.2	115.8							
G35.0	124.0	118.7	97.8							
G36.0	106.5	104.0	84.6							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.573 m [K=1.0000]

Humidity:

Inspector:

**Candlepower Table (Continue 6)**

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	92.9	91.7	72.3						
G38.0	81.2	80.2	62.6						
G39.0	70.5	71.0	53.6						
G40.0	61.5	63.4	46.7						
G41.0	54.3	57.6	40.9						
G42.0	48.3	51.9	36.4						
G43.0	42.7	47.7	32.2						
G44.0	38.6	44.1	29.3						
G45.0	35.3	40.7	26.5						
G46.0	32.3	37.3	24.0						
G47.0	29.7	34.5	22.4						
G48.0	27.0	31.9	20.6						
G49.0	24.8	29.4	18.6						
G50.0	22.8	26.9	16.0						
G51.0	20.9	24.1	13.8						
G52.0	17.5	20.6	11.4						
G53.0	14.6	17.5	9.7						
G54.0	12.4	14.9	9.0						
G55.0	10.9	12.2	8.1						
G56.0	9.1	9.6	7.5						
G57.0	7.6	8.1	7.0						
G58.0	7.2	7.2	6.5						
G59.0	6.7	6.6	6.1						
G60.0	6.2	5.9	5.6						
G61.0	5.6	5.4	5.3						
G62.0	5.1	4.8	4.8						
G63.0	4.7	4.3	4.6						
G64.0	4.4	4.3	4.2						
G65.0	4.0	4.0	3.5						
G66.0	3.6	3.7	2.8						
G67.0	3.1	3.4	2.1						
G68.0	2.6	3.0	1.7						
G69.0	2.0	2.4	1.5						
G70.0	1.7	1.9	1.4						
G71.0	1.5	1.8	1.0						
G72.0	1.4	1.6	0.0						
G73.0	1.1	1.5	0.0						

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

### Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	1.0	1.3	0.0							
G75.0	0.0	1.3	0.0							
G76.0	0.0	1.1	0.0							
G77.0	0.0	1.0	0.0							
G78.0	0.0	0.0	0.0							
G79.0	0.0	0.0	0.0							
G80.0	0.0	0.0	0.0							
G81.0	0.0	0.0	0.0							
G82.0	0.0	0.0	0.0							
G83.0	0.0	0.0	0.0							
G84.0	0.0	0.0	0.0							
G85.0	0.0	0.0	0.0							
G86.0	0.0	0.0	0.0							
G87.0	0.0	0.0	0.0							
G88.0	0.0	0.0	0.0							
G89.0	0.0	0.0	0.0							
G90.0	0.0	0.0	0.0							
G91.0	0.0	0.0	0.0							
G92.0	0.0	0.0	0.0							
G93.0	0.0	0.0	0.0							
G94.0	0.0	0.0	0.0							
G95.0	0.0	0.0	0.0							
G96.0	0.0	0.0	0.0							
G97.0	0.0	0.0	0.0							
G98.0	0.0	0.0	0.0							
G99.0	0.0	0.0	0.0							
G100.0	0.0	0.0	0.0							
G101.0	0.0	0.0	0.0							
G102.0	0.0	0.0	0.0							
G103.0	0.0	0.0	0.0							
G104.0	0.0	0.0	0.0							
G105.0	0.0	0.0	0.0							
G106.0	0.0	0.0	0.0							
G107.0	0.0	0.0	0.0							
G108.0	0.0	0.0	0.0							
G109.0	0.0	0.0	0.0							
G110.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:



## Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	0.0	0.0	0.0							
G112.0	0.0	0.0	0.0							
G113.0	0.0	0.0	0.0							
G114.0	0.0	0.0	0.0							
G115.0	0.0	0.0	0.0							
G116.0	0.0	0.0	0.0							
G117.0	0.0	0.0	0.0							
G118.0	0.0	0.0	0.0							
G119.0	0.0	0.0	0.0							
G120.0	0.0	0.0	0.0							
G121.0	0.0	0.0	0.0							
G122.0	0.0	0.0	0.0							
G123.0	0.0	0.0	0.0							
G124.0	0.0	0.0	0.0							
G125.0	0.0	1.0	0.0							
G126.0	0.0	1.1	0.0							
G127.0	0.0	1.1	0.0							
G128.0	0.0	1.2	1.0							
G129.0	1.1	1.3	1.0							
G130.0	0.0	1.4	1.0							
G131.0	1.0	1.5	1.3							
G132.0	1.2	1.5	1.2							
G133.0	1.2	1.7	1.4							
G134.0	1.3	1.8	1.6							
G135.0	1.5	2.0	1.8							
G136.0	1.5	2.1	1.8							
G137.0	1.5	2.4	2.1							
G138.0	1.5	2.5	2.3							
G139.0	1.7	2.8	2.3							
G140.0	2.0	2.8	2.6							
G141.0	2.2	3.0	3.0							
G142.0	2.4	3.0	3.0							
G143.0	2.8	3.3	3.3							
G144.0	2.8	3.7	3.5							
G145.0	3.0	3.9	3.8							
G146.0	3.2	4.0	4.1							
G147.0	3.6	4.3	4.4							

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G148.0	3.7	4.4	4.7						
G149.0	3.9	4.6	4.9						
G150.0	4.1	5.1	5.0						
G151.0	4.4	5.0	5.2						
G152.0	4.6	5.4	5.6						
G153.0	4.9	5.7	5.6						
G154.0	5.2	5.9	5.9						
G155.0	5.5	6.1	6.1						
G156.0	5.6	6.3	6.4						
G157.0	5.8	6.6	6.6						
G158.0	6.0	6.8	6.8						
G159.0	6.2	7.0	6.9						
G160.0	6.5	7.1	7.1						
G161.0	6.8	7.3	7.1						
G162.0	6.8	7.4	7.3						
G163.0	7.0	7.5	7.3						
G164.0	6.8	7.6	7.4						
G165.0	7.1	7.8	7.7						
G166.0	7.3	7.9	7.8						
G167.0	7.3	8.0	7.8						
G168.0	7.5	8.1	7.8						
G169.0	7.7	8.0	7.7						
G170.0	7.6	8.1	8.0						
G171.0	7.6	8.1	8.1						
G172.0	7.7	8.1	8.0						
G173.0	7.5	8.2	8.1						
G174.0	7.7	8.2	8.3						
G175.0	7.7	8.3	8.3						
G176.0	7.6	8.4	8.5						
G177.0	7.9	8.2	8.5						
G178.0	7.9	8.3	8.3						
G179.0	7.9	8.4	8.1						
G180.0	8.2	8.5	8.2						

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1800B  
 Distance: 11.573 m [K=1.0000]  
 Humidity:  
 Inspector: