

Report No.:

Test Time: 2017-06-16 08:58

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: SH900

Lamp Description: SLM C 830 1203 L09 G1

Lumens per Lamp: 1030.5

Luminous Width (mm): 43

Voltage: 219.8 V

Power: 8.94 W

Lamp Catalog: COB

Number of Lamps: 1

Luminous Length (mm): 43

Luminous Height (mm): 15

Current: 0.074 A

Power Factor: 0.547

## Photometric Results

CIE Class: Direct

Measurement Flux: 783.7 lm

Downward Ratio: 75.22%

Horizontal Diffuse Angle(50%): H18.2

Vertical Diffuse Angle(50%): V17.2

Luminaire Efficacy Rating (LER): 87.72

Max. Intensity: 3238.9 cd

S/MH(C0/C180): 0.38

Total Rated Lamp Lumens: 1030.5 lm

Efficiency: 76.05%

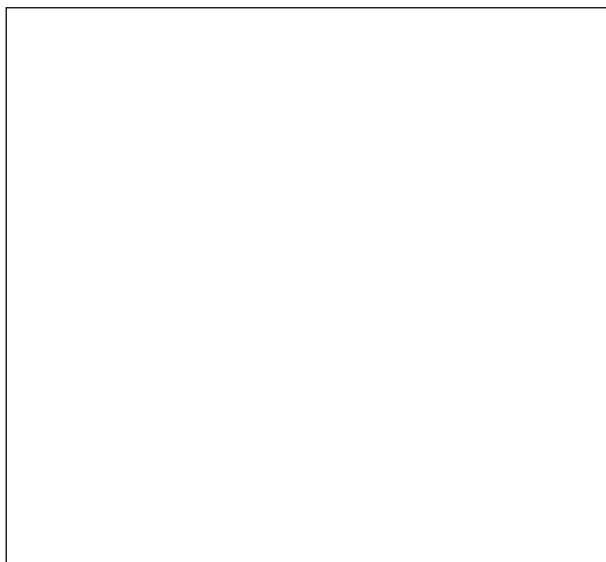
Upward Ratio: 0.83%

Central Intensity: 2581.04 cd

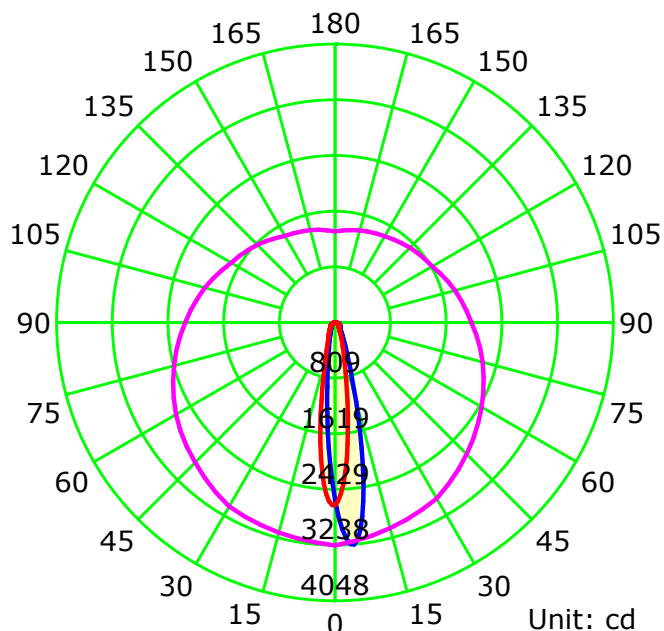
Pos of Max. Intensity: H0 V5

S/MH(C90/C270): 0.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G5

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

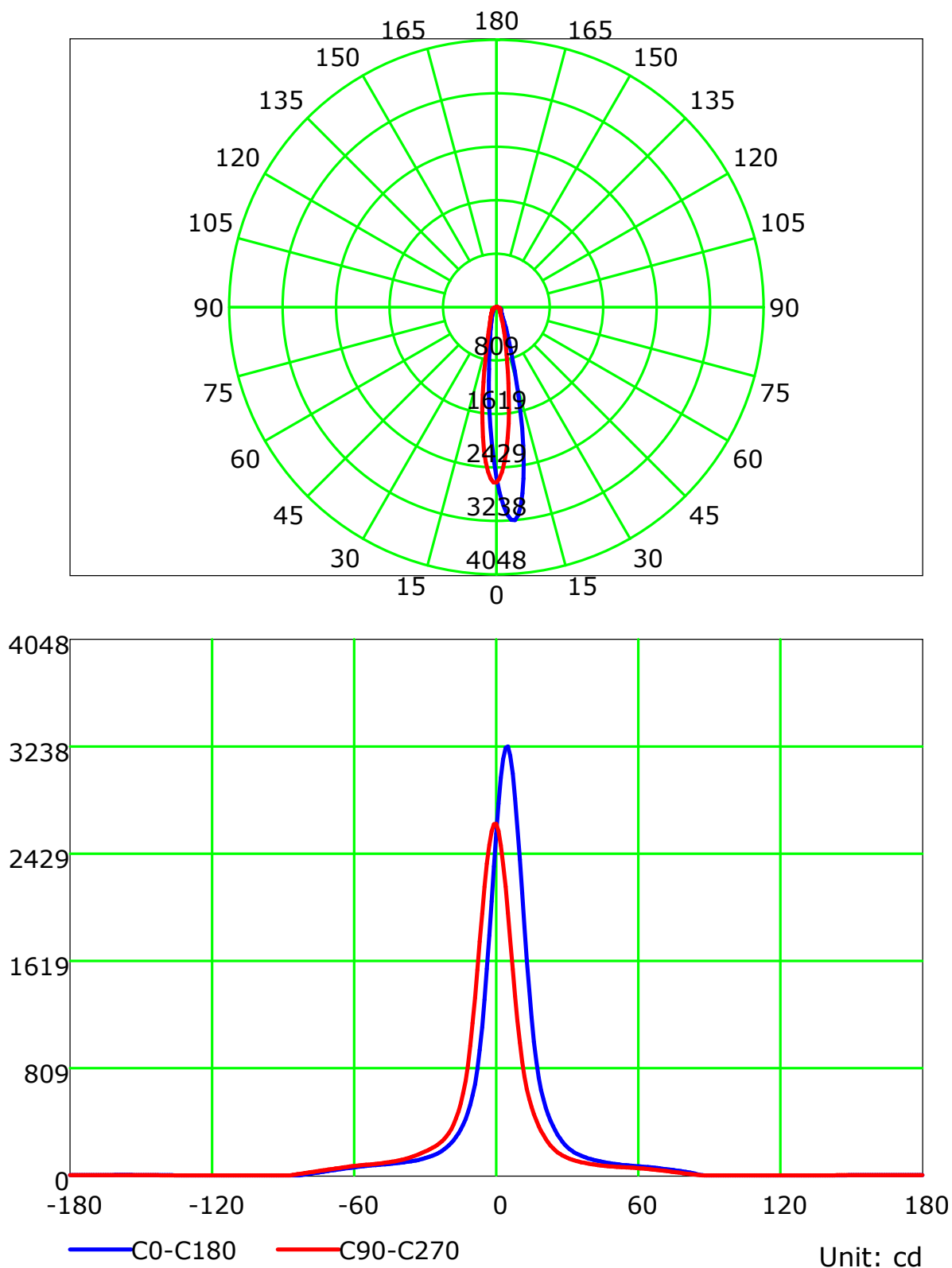
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

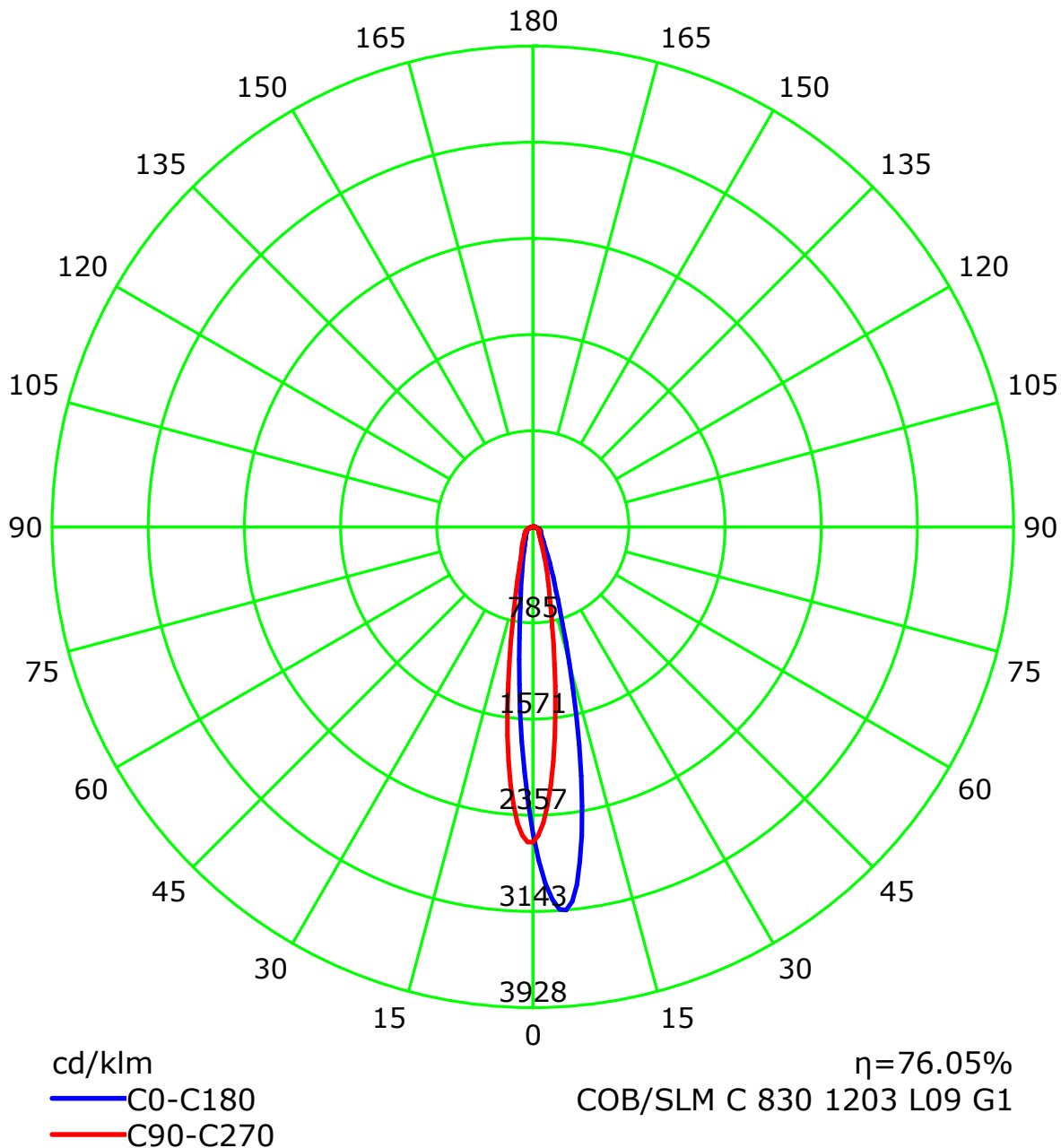
## Luminous Intensity Distribution Curve



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: 7.704 m  
Humidity:  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



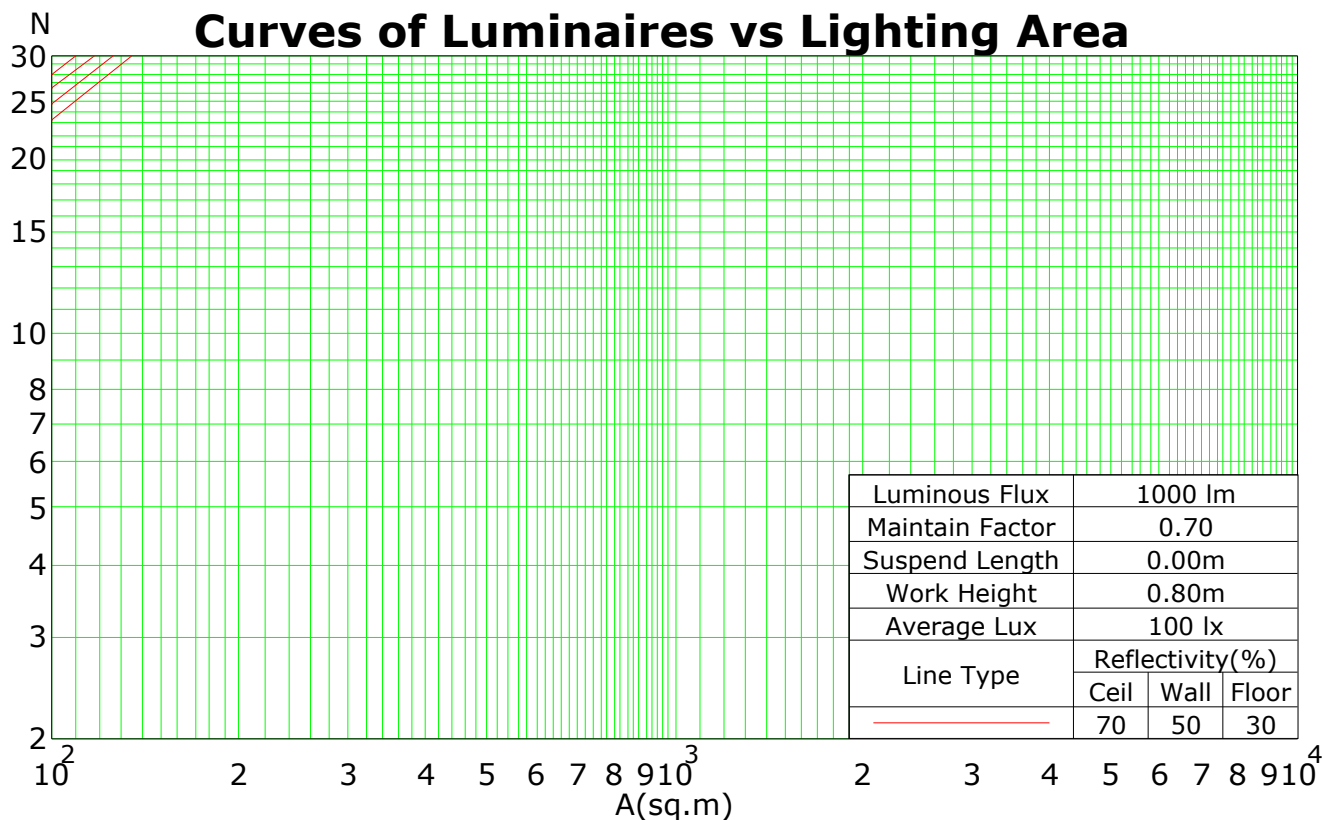
## Coefficients Of Utilization - Zonal Cavity Method

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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75
1	85	82	80	78	83	80	78	76	77	75	74	74	73	71	71	70	69	68
2	79	75	71	68	78	73	70	67	71	68	65	68	66	64	66	64	62	61
3	75	69	64	61	73	68	64	60	66	62	59	64	61	58	62	59	57	56
4	71	64	59	55	69	63	58	55	61	57	54	60	56	53	58	55	53	51
5	67	60	55	51	66	59	54	51	58	53	50	56	53	50	55	52	49	48
6	64	56	51	48	63	56	51	48	54	50	47	53	50	47	52	49	46	45
7	61	53	48	45	60	53	48	45	52	47	44	51	47	44	50	46	44	43
8	58	51	46	43	57	50	46	42	49	45	42	48	45	42	48	44	42	41
9	56	48	44	41	55	48	43	40	47	43	40	46	43	40	46	42	40	39
10	54	46	42	39	53	46	42	39	45	41	39	45	41	38	44	41	38	37

Spacing Criteria (0-180): 0.38

Spacing Criteria (90-270): 0.30

Spacing Criteria (Diagonal): 0.36



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

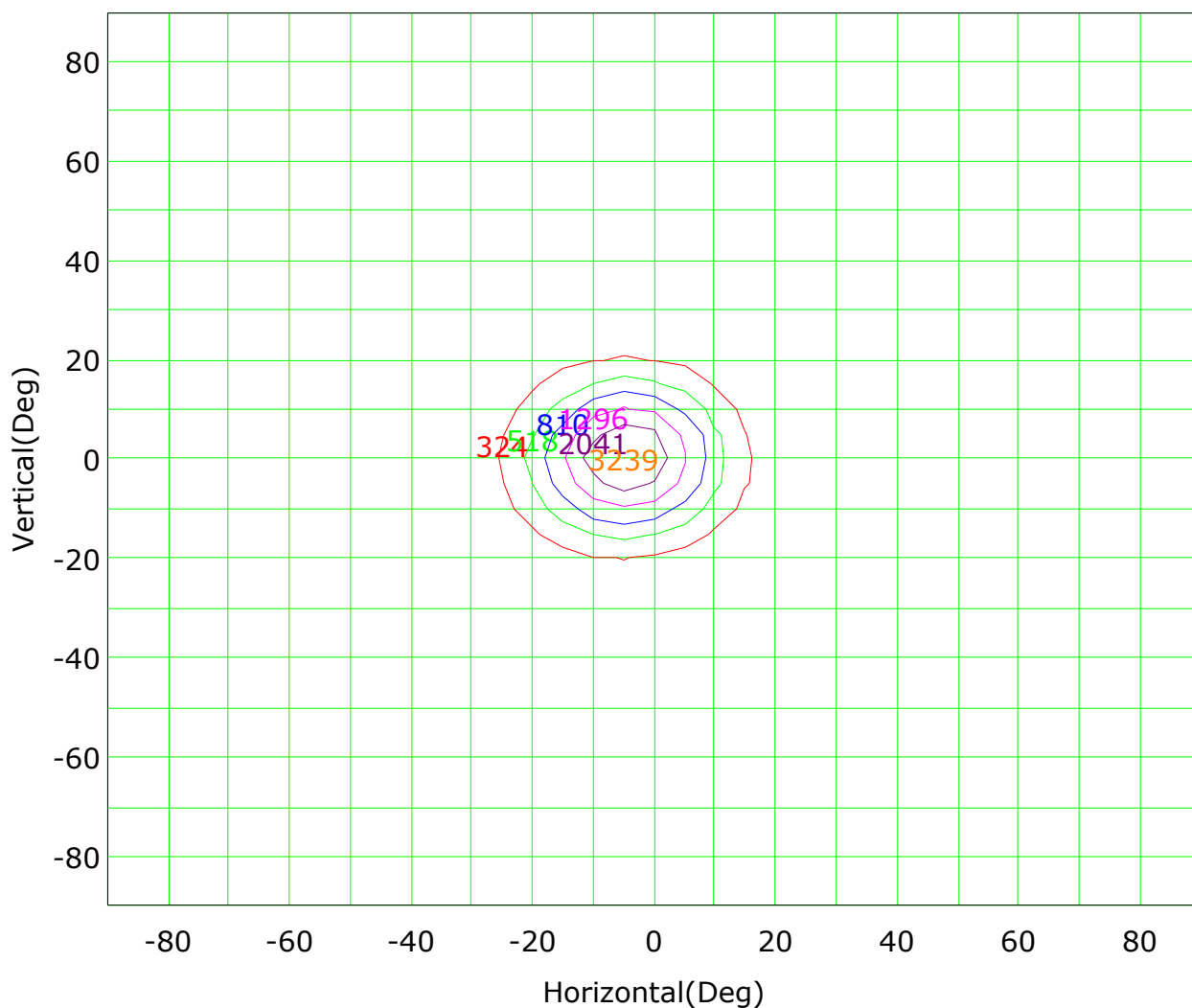
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

## Isocandela (rectangle)



Imax (100%): 3239 cd

( 10%): 324 cd	( 16%): 518 cd
( 25%): 810 cd	( 40%): 1296 cd
( 63%): 2041 cd	(100%): 3239 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

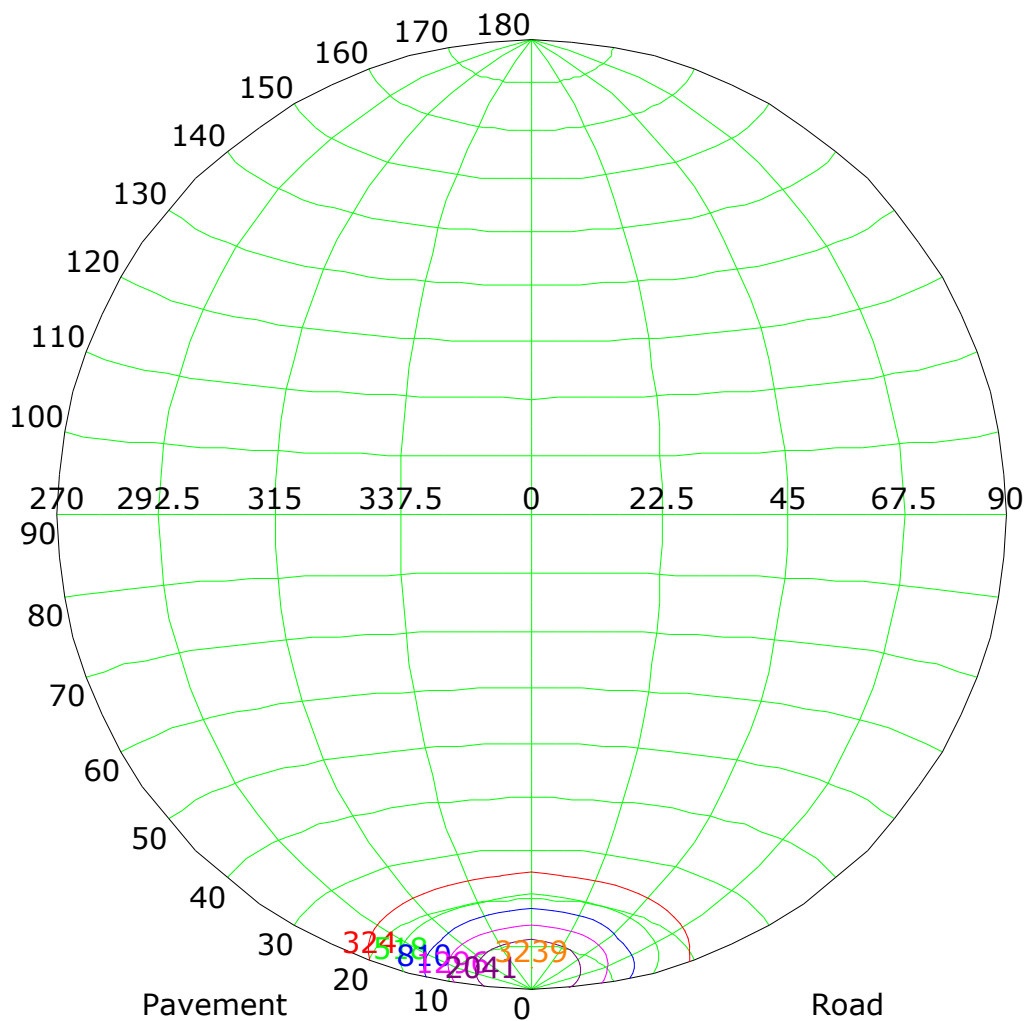
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 3239 cd

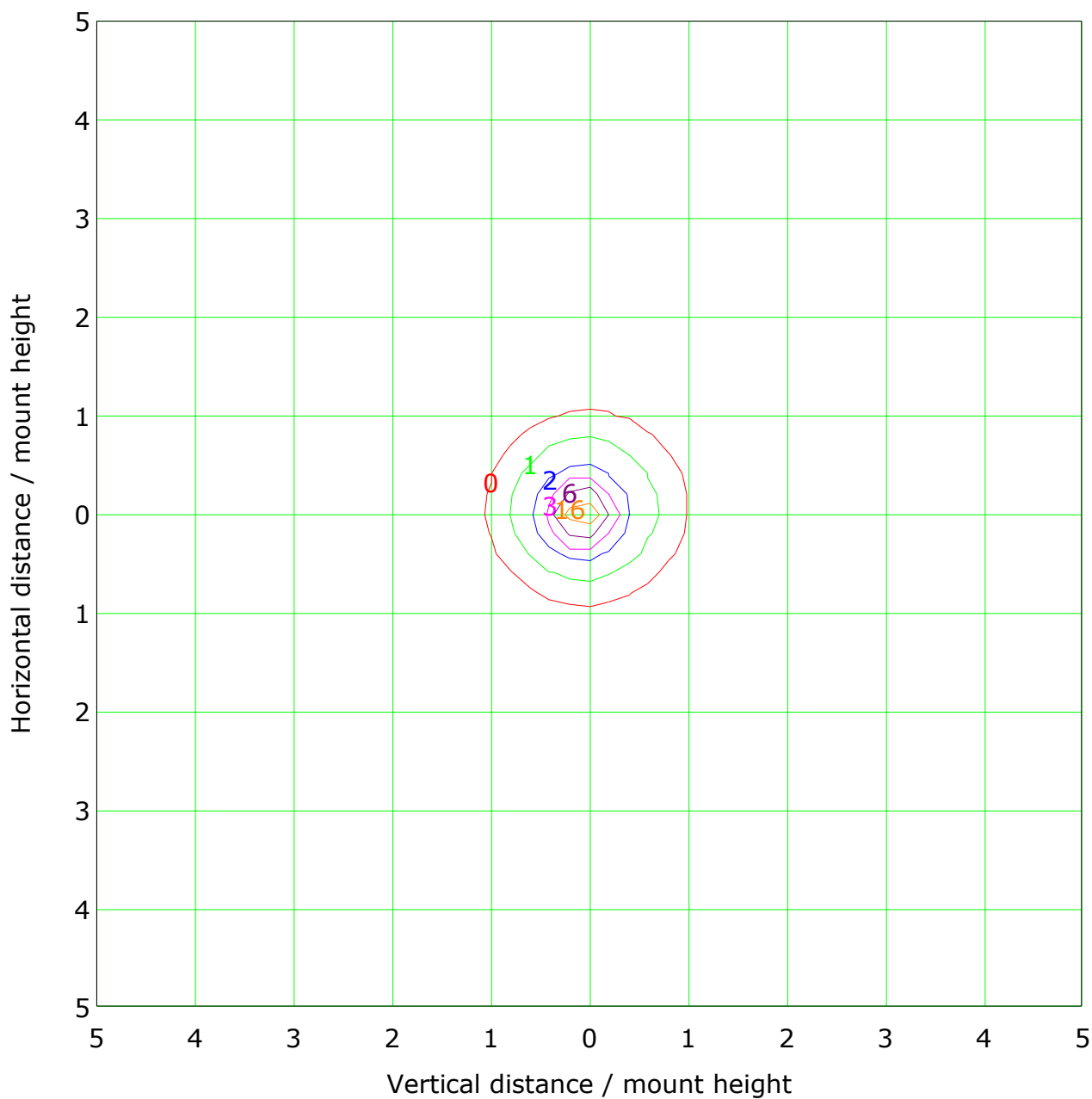
( 10%): 324 cd  
( 25%): 810 cd  
( 63%): 2041 cd

( 16%): 518 cd  
( 40%): 1296 cd  
(100%): 3239 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: 7.704 m  
Humidity:  
Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 32.1 lx

( 1%): 0.3 lx	( 2%): 0.6 lx
( 5%): 1.6 lx	( 10%): 3.2 lx
( 20%): 6.4 lx	( 50%): 16.0 lx
(100%): 32.1 lx	

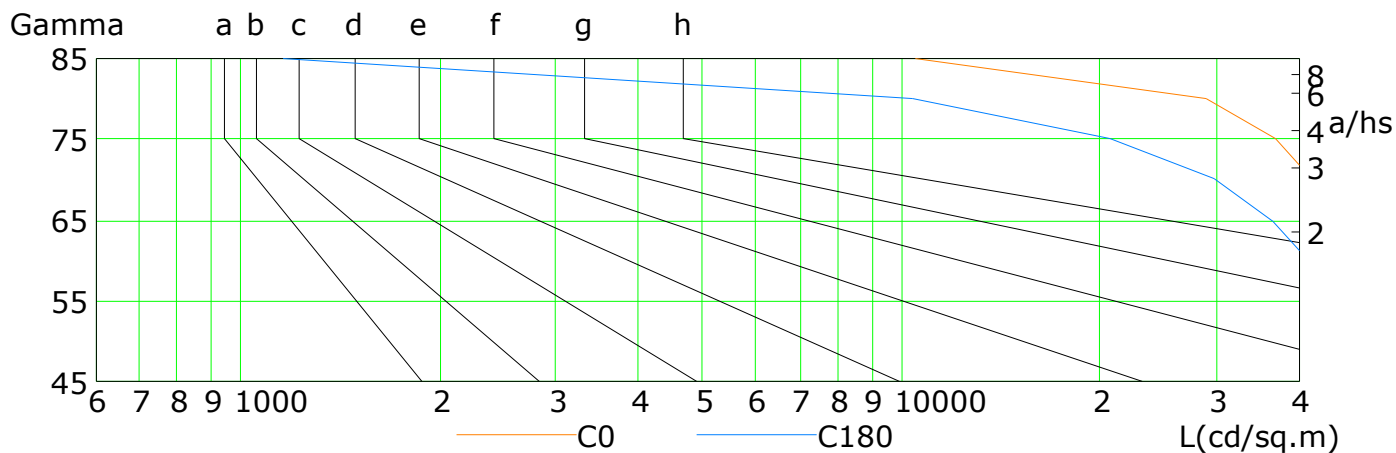
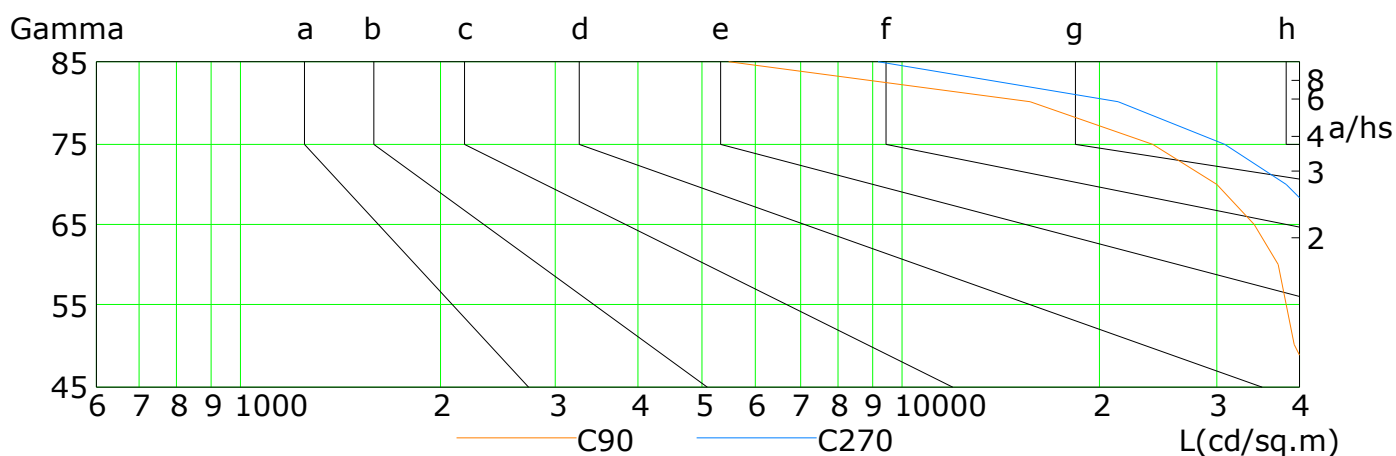
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 7.704 m  
Humidity:  
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	58145	52115	48442	46835	45227	41841	36847	28946	10501
C90	42063	39373	38297	37328	34290	30117	23984	15707	5462
C180	49724	47551	45308	41427	36516	29713	20761	10415	1157
C270	57572	53316	50884	48311	43866	38296	31028	21270	9245

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

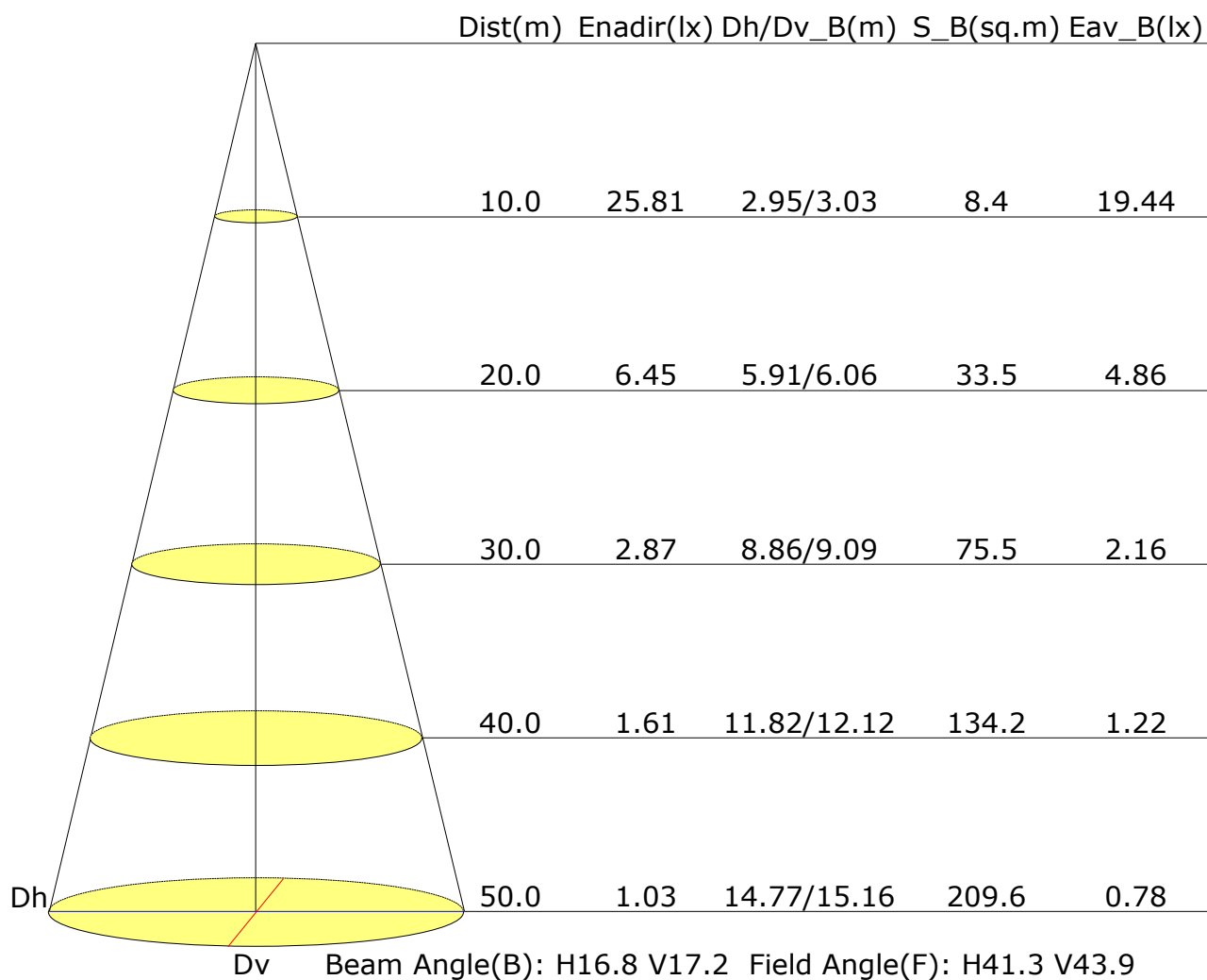
Distance: 7.704 m

Humidity:

Inspector:



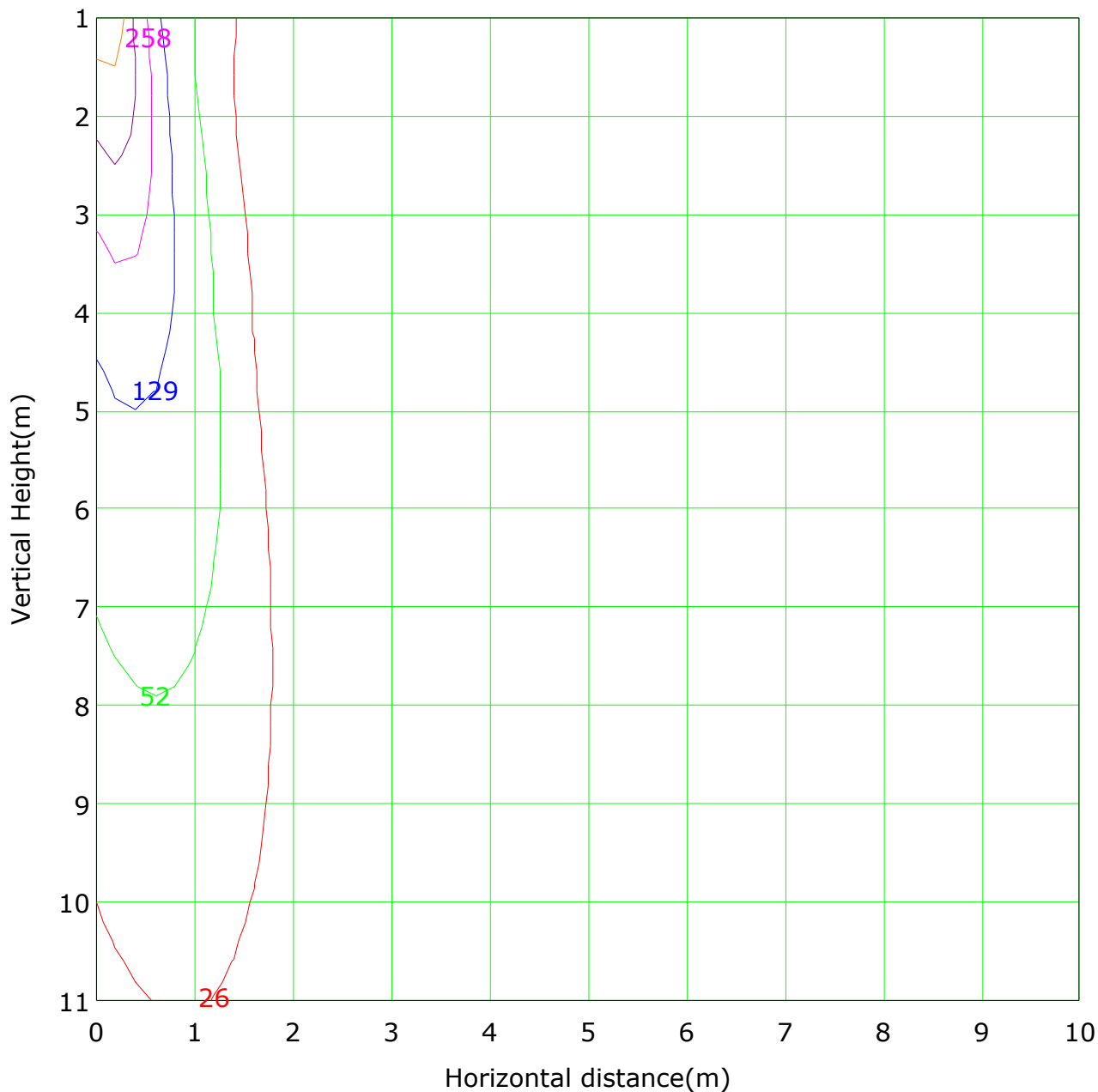
## Illuminance at a Distance



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: 7.704 m  
Humidity:  
Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2581.0 lx  
— ( 1%): 25.8 lx — ( 2%): 51.6 lx  
— ( 5%): 129.1 lx — ( 10%): 258.1 lx  
— ( 20%): 516.2 lx — ( 50%): 1290.5 lx  
— (100%): 2581.0 lx

## 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(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	-80	0.0	0.0	0.0	0.2	0.3	0.5	0.7	0.7	0.9	1.0	1.0	1.0	0.9	0.8	0.6	0.4	0.2	0.0	0.0	8.7	0.0
	-70	0.0	0.0	0.2	0.4	0.7	1.1	1.4	1.4	2.2	2.4	1.7	1.6	1.3	1.0	0.7	0.4	0.1	0.0	15.8	0.0	
	-60	0.0	0.1	0.3	0.7	1.1	1.6	2.0	2.3	2.4	2.4	2.3	2.1	1.7	1.3	0.9	0.5	0.2	0.0	21.8	0.0	
	-50	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.8	2.8	3.0	2.9	2.5	2.0	1.6	1.1	0.6	0.2	0.0	26.9	0.0	
	-40	0.0	0.1	0.5	1.0	1.6	2.2	2.8	3.5	4.2	4.4	3.9	3.1	2.4	1.8	1.2	0.7	0.3	0.0	33.8	0.0	
	-30	0.0	0.2	0.6	1.2	1.8	2.5	3.4	4.7	6.5	7.3	6.0	4.2	2.9	1.9	1.3	0.7	0.3	0.0	45.5	0.3	
	-20	0.0	0.2	0.6	1.2	1.9	2.7	4.1	7.1	13.9	19.7	12.4	6.2	3.4	2.1	1.3	0.8	0.3	0.0	78.0	43.3	
	-10	0.0	0.2	0.6	1.3	1.9	2.8	4.6	10.2	36.2	68.8	29.8	8.9	3.9	2.2	1.4	0.8	0.3	0.0	173.9	146.1	
	0	0.0	0.2	0.6	1.2	1.9	2.7	4.5	10.2	34.7	65.4	29.9	8.9	3.8	2.2	1.3	0.8	0.3	0.0	168.7	141.7	
	10	0.0	0.2	0.6	1.2	1.7	2.4	3.6	6.6	13.2	18.5	12.5	5.9	3.1	2.0	1.3	0.8	0.3	0.0	73.8	41.0	
	20	0.0	0.2	0.6	1.1	1.6	2.1	2.8	3.8	5.4	6.3	5.2	3.6	2.5	1.7	1.2	0.7	0.3	0.0	38.9	0.0	
	30	0.0	0.1	0.5	0.9	1.4	1.8	2.2	2.6	3.1	3.3	3.0	2.5	2.0	1.5	1.1	0.6	0.3	0.0	27.1	0.0	
	40	0.0	0.1	0.4	0.8	1.2	1.6	1.9	2.1	2.2	2.3	2.2	2.0	1.7	1.3	1.0	0.6	0.2	0.0	21.5	0.0	
	50	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.8	1.8	1.9	1.8	1.6	1.4	1.1	0.8	0.5	0.2	0.0	17.5	0.0	
	60	0.0	0.0	0.1	0.4	0.6	0.9	1.1	1.3	1.4	1.4	1.4	1.2	1.1	0.8	0.6	0.3	0.1	0.0	12.8	0.0	
	70	0.0	0.0	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.8	0.8	0.7	0.6	0.5	0.3	0.2	0.0	0.0	6.8	0.0	
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	1.3	0.0	
	90	0.1	1.7	6.4	13.1	20.5	28.6	39.7	62.4	93.8	172.7	80.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	775	
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	93.8	172.7	80.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0		372	

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

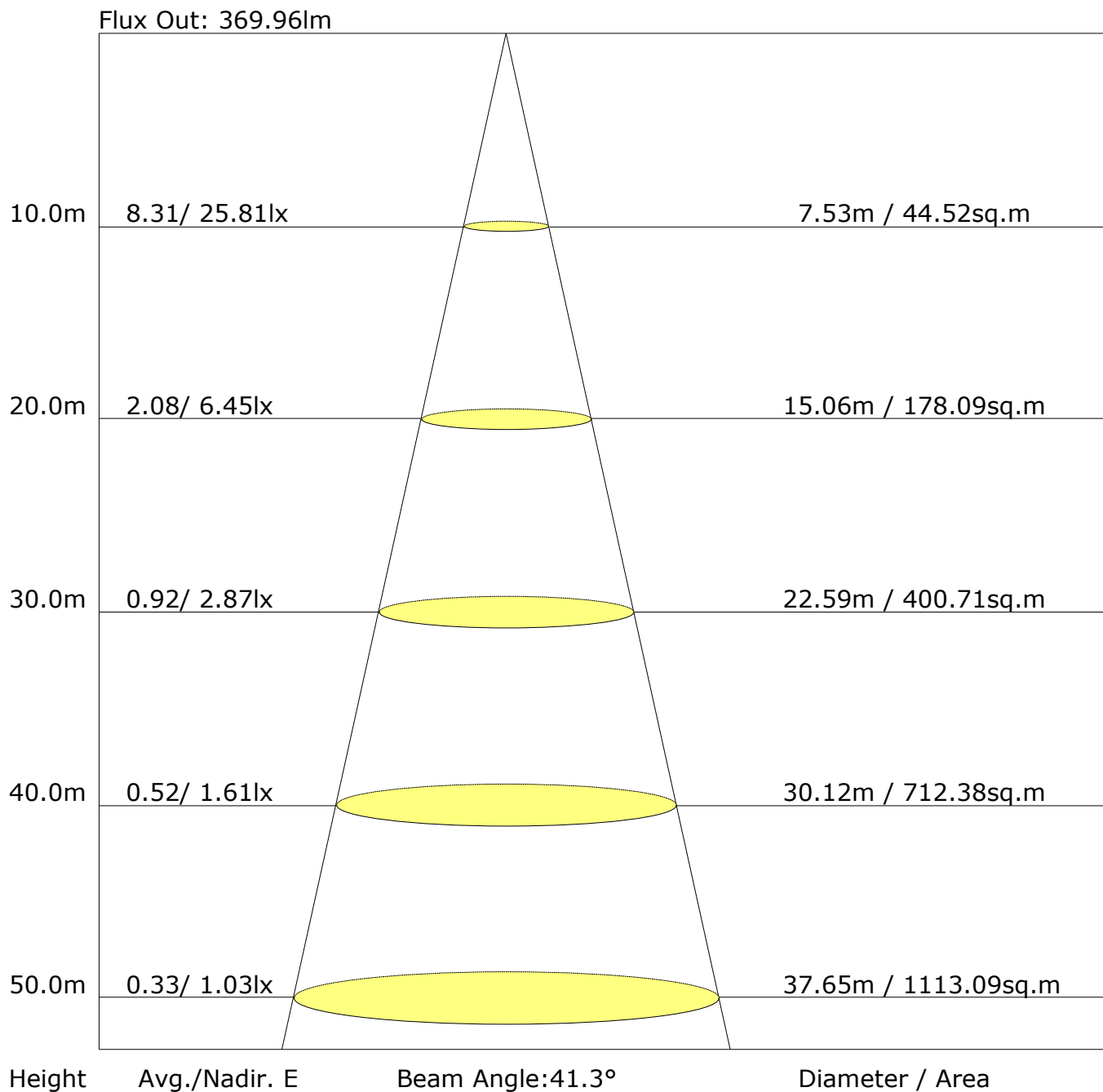
Test Device: GPM-1800B

Distance: 7.704 m

Humidity:

Inspector:

## The Average Illuminance Effective Figure



## 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	24.1	25.1	24.4	25.3	25.5	23.6	24.6	23.9	24.8	25.1
3H	25.8	26.7	26.1	27.0	27.2	25.1	26.0	25.5	26.3	26.6
4H	26.5	27.4	26.9	27.7	28.0	25.7	26.5	26.0	26.8	27.1
6H	27.0	27.8	27.4	28.2	28.5	26.0	26.8	26.4	27.1	27.5
8H	27.2	28.0	27.6	28.3	28.6	26.1	26.9	26.5	27.2	27.5
12H	27.3	28.0	27.6	28.3	28.7	26.1	26.8	26.5	27.2	27.5
X=4H Y=2H	24.7	25.5	25.0	25.8	26.1	24.3	25.2	24.7	25.5	25.8
3H	26.6	27.3	27.0	27.6	28.0	26.0	26.7	26.4	27.1	27.4
4H	27.4	28.1	27.8	28.4	28.8	26.7	27.3	27.1	27.7	28.1
6H	28.0	28.6	28.5	29.0	29.4	27.1	27.7	27.5	28.1	28.5
8H	28.2	28.8	28.7	29.2	29.6	27.2	27.7	27.6	28.2	28.6
12H	28.3	28.8	28.8	29.2	29.7	27.2	27.7	27.7	28.1	28.6
X=8H Y=4H	27.6	28.2	28.1	28.6	29.0	27.0	27.5	27.4	27.9	28.4
6H	28.4	28.8	28.9	29.3	29.7	27.5	27.9	28.0	28.4	28.9
8H	28.6	29.0	29.1	29.5	30.0	27.7	28.1	28.2	28.5	29.0
12H	28.7	29.1	29.3	29.6	30.1	27.7	28.1	28.2	28.5	29.1
X=12H Y=4H	27.6	28.1	28.1	28.5	29.0	27.0	27.5	27.4	27.9	28.4
6H	28.4	28.8	28.9	29.3	29.8	27.6	28.0	28.1	28.4	28.9
8H	28.7	29.0	29.2	29.5	30.0	27.7	28.1	28.3	28.6	29.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.2/-0.4					+0.2/-0.4				
S=2.0H	+0.4/-0.6					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with  $1031\text{lm}$  ( $8\log(F/F_0) = 0.1$ ).

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: 7.704 m  
 Humidity:  
 Inspector:

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

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	369	35.8
	FL ( 0°-30°)	229	22.2
	FM (30°-60°)	97	9.5
	FH (60°-80°)	40	3.8
	FVH (80°-90°)	3	0.3
	BACK LIGHT	406	39.4
	BL ( 0°-30°)	239	23.2
	BM (30°-60°)	117	11.3
	BH (60°-80°)	47	4.5
	BVH (80°-90°)	4	0.4
	UP LIGHT	9	0.8
	UL (90°-100°)	1	0.1
	UH (100°-180°)	8	0.8
	TRAPPED LIGHT	247	23.9

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  
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Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 7.704 m  
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	2581.0	2599.4	2628.6	2654.5	2671.4	2675.9	2581.0	2599.4	2628.6	2654.5
G1.0	2808.6	2776.9	2700.5	2601.1	2508.5	2447.0	2333.0	2393.2	2510.9	2653.6
G2.0	3002.6	2911.6	2716.2	2494.4	2308.4	2199.7	2069.5	2160.5	2352.2	2598.8
G3.0	3144.0	2986.3	2681.5	2351.4	2094.1	1945.3	1813.8	1923.8	2165.3	2497.6
G4.0	3229.4	3005.6	2594.2	2181.1	1862.8	1693.0	1561.6	1683.6	1960.2	2354.6
G5.0	3238.9	2955.8	2461.1	1982.5	1633.9	1451.8	1328.4	1456.8	1743.5	2180.3
G6.0	3169.9	2848.2	2299.5	1774.9	1413.4	1239.2	1120.4	1239.8	1523.2	1978.5
G7.0	3036.3	2699.3	2106.3	1558.6	1216.1	1044.5	946.7	1051.3	1315.4	1766.5
G8.0	2847.8	2508.6	1899.1	1355.2	1034.9	884.4	803.6	892.0	1125.7	1553.1
G9.0	2628.7	2292.8	1684.3	1169.8	882.9	756.3	689.8	756.3	957.5	1343.4
G10.0	2386.3	2065.2	1476.3	1003.5	760.8	657.0	604.0	656.1	816.1	1151.9
G11.0	2133.5	1828.8	1277.6	859.7	661.3	577.9	534.0	574.0	701.5	980.0
G12.0	1873.7	1591.4	1095.9	744.5	584.1	516.1	477.5	506.5	610.3	832.7
G13.0	1628.1	1376.7	943.0	653.4	522.7	463.8	426.3	451.9	537.3	714.7
G14.0	1397.8	1177.8	811.5	576.8	468.0	414.2	384.5	404.5	476.3	621.7
G15.0	1191.7	1007.3	704.9	516.1	418.9	374.8	349.3	365.5	424.4	546.2
G16.0	1009.6	861.3	622.3	462.0	377.2	337.3	317.4	332.3	380.3	484.4
G17.0	857.2	746.3	551.2	414.0	338.2	305.3	291.1	303.0	344.3	432.7
G18.0	738.5	650.1	493.0	371.9	304.8	277.8	267.3	278.6	313.6	387.8
G19.0	646.1	577.9	443.0	335.5	275.5	251.7	246.5	257.1	288.0	350.6
G20.0	571.3	514.5	398.3	304.1	248.1	229.4	228.2	238.8	265.9	321.0
G21.0	509.1	459.4	357.3	274.6	224.7	210.1	212.8	223.4	247.1	296.6
G22.0	458.8	412.9	323.2	249.1	204.9	193.7	198.3	209.3	231.1	275.2
G23.0	414.0	369.6	290.8	226.5	187.0	178.4	185.7	196.3	217.3	257.7
G24.0	373.7	334.0	261.7	206.2	171.2	165.8	174.8	185.3	205.3	243.3
G25.0	338.5	298.8	236.7	189.3	158.8	155.3	165.2	175.5	194.2	230.1
G26.0	306.9	269.0	214.1	174.6	148.2	146.2	157.0	166.6	184.3	218.7
G27.0	279.4	243.4	194.7	162.0	139.1	138.2	149.4	158.7	175.4	208.6
G28.0	254.9	220.0	178.2	151.7	130.8	131.1	142.7	151.5	166.7	199.3
G29.0	234.0	199.9	164.9	142.7	124.0	125.1	136.8	145.0	159.2	190.4
G30.0	215.3	183.9	153.3	134.5	117.8	119.7	131.1	139.2	152.3	182.1
G31.0	199.3	170.0	143.1	126.8	112.5	114.8	125.9	133.8	145.9	174.2
G32.0	186.6	158.6	134.9	120.2	107.8	110.6	121.4	128.8	140.1	166.3
G33.0	174.9	148.4	127.5	114.3	103.5	106.6	117.3	124.4	135.1	159.1
G34.0	165.0	139.9	120.9	108.9	99.7	103.2	113.4	120.4	130.1	151.6
G35.0	156.3	132.4	115.4	104.3	96.3	100.3	110.2	116.7	125.5	144.6
G36.0	148.2	125.8	110.6	100.0	93.0	97.6	107.3	113.4	121.4	138.5

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: 7.704 m

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	141.0	120.0	105.7	96.4	90.2	94.9	104.8	110.3	117.7	132.4
G38.0	134.7	114.8	101.4	92.8	87.6	92.5	102.2	107.5	114.3	127.2
G39.0	128.7	110.1	97.7	89.5	85.1	90.3	99.8	104.7	111.1	122.5
G40.0	123.3	105.7	94.3	86.4	82.5	88.1	97.6	102.3	108.1	118.2
G41.0	118.5	101.8	91.1	83.6	80.4	86.1	95.3	99.9	105.3	114.3
G42.0	113.9	98.3	88.1	81.0	78.5	84.1	93.2	97.8	102.7	110.7
G43.0	109.8	95.1	85.3	78.6	76.6	82.2	91.2	95.9	100.3	107.4
G44.0	106.2	92.0	82.8	76.2	74.8	80.6	89.4	93.9	98.0	104.4
G45.0	102.5	89.3	80.3	74.2	73.3	79.1	87.7	92.2	95.7	101.5
G46.0	99.2	86.5	78.1	72.2	71.9	77.6	86.1	90.7	93.7	98.9
G47.0	96.0	84.2	76.0	70.6	70.6	76.2	84.4	89.1	91.7	96.3
G48.0	93.1	81.9	73.9	68.9	69.3	75.1	82.8	87.6	89.9	93.9
G49.0	90.3	79.8	72.1	67.5	68.1	74.0	81.4	86.0	88.4	91.7
G50.0	87.7	77.6	70.3	66.3	67.2	72.8	80.0	84.6	86.8	89.7
G51.0	85.3	75.7	68.8	65.1	66.0	71.7	78.6	83.3	85.2	87.7
G52.0	83.0	73.8	67.2	64.0	65.0	70.4	77.1	81.7	83.7	86.0
G53.0	80.8	72.0	65.9	63.0	63.8	69.0	75.4	79.9	82.1	84.2
G54.0	78.8	70.5	64.8	61.9	62.8	67.5	73.8	78.0	80.4	82.6
G55.0	77.0	68.9	63.3	60.8	61.8	66.1	72.0	76.0	78.7	80.8
G56.0	75.4	67.5	62.1	59.9	60.7	64.6	70.1	73.9	76.8	79.3
G57.0	73.8	66.2	61.0	58.9	59.5	62.9	67.9	71.8	74.9	77.5
G58.0	72.4	64.8	59.8	58.0	58.2	61.1	65.8	69.5	72.8	75.7
G59.0	70.9	63.5	58.7	56.8	56.5	59.2	63.7	67.0	70.7	73.7
G60.0	69.5	62.3	57.5	55.4	54.8	57.3	61.4	64.6	68.5	71.7
G61.0	68.1	61.2	56.1	53.8	53.1	55.3	59.3	62.1	66.2	69.5
G62.0	66.7	59.9	54.7	52.1	51.1	53.2	56.9	59.8	63.9	67.3
G63.0	65.2	58.7	53.1	50.4	49.3	51.1	54.5	57.4	61.3	65.0
G64.0	63.5	57.1	51.4	48.6	47.3	49.2	52.2	54.9	58.9	62.5
G65.0	61.8	55.7	49.7	46.8	45.4	47.1	49.9	52.6	56.6	59.9
G66.0	59.9	54.0	47.9	45.0	43.5	44.9	47.3	50.1	54.2	57.5
G67.0	58.1	52.3	46.1	43.1	41.4	42.6	44.7	47.6	51.7	55.0
G68.0	56.1	50.5	44.2	41.2	39.4	40.3	42.1	45.0	49.2	52.5
G69.0	53.9	48.5	42.3	39.2	37.2	38.0	39.4	42.5	46.6	50.0
G70.0	51.8	46.6	40.3	37.3	35.0	35.5	36.8	39.7	44.0	47.4
G71.0	49.8	44.6	38.3	35.2	32.8	33.0	34.0	37.0	41.3	44.7
G72.0	47.5	42.5	36.4	33.1	30.5	30.5	31.2	34.3	38.6	42.1
G73.0	45.2	40.4	34.3	31.0	28.1	27.9	28.4	31.3	36.0	39.5

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: 7.704 m  
 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	43.0	38.3	32.2	28.7	25.7	25.2	25.7	28.4	32.9	36.8
G75.0	40.6	36.0	30.1	26.4	23.3	22.6	22.9	25.6	30.0	34.2
G76.0	38.0	33.8	27.9	24.1	20.9	20.0	20.1	22.8	27.3	31.4
G77.0	35.5	31.4	25.7	21.9	18.5	17.5	17.4	19.8	24.4	28.7
G78.0	32.9	29.0	23.5	19.6	16.1	14.9	14.8	17.2	21.6	25.9
G79.0	30.3	26.5	21.2	17.2	13.8	12.4	12.3	14.5	18.8	23.2
G80.0	27.7	24.0	19.0	15.0	11.6	10.0	10.0	12.1	15.9	20.3
G81.0	25.0	21.4	16.7	12.8	9.4	7.1	7.1	9.6	12.9	17.7
G82.0	22.2	18.9	14.4	10.6	7.2	4.1	3.9	6.8	10.0	15.1
G83.0	18.6	16.1	12.1	8.6	4.6	1.9	1.7	3.7	7.2	12.5
G84.0	13.6	12.2	9.8	6.6	2.1	1.1	1.1	1.7	4.9	10.0
G85.0	8.4	7.6	6.7	4.4	1.1	0.9	0.9	1.0	2.8	7.4
G86.0	4.5	3.8	3.2	2.0	0.8	0.8	0.9	0.8	1.4	4.0
G87.0	2.0	1.8	1.4	1.0	0.8	0.8	0.8	0.8	0.9	1.4
G88.0	1.3	1.1	0.9	0.8	0.7	0.8	0.7	0.8	0.7	0.8
G89.0	1.0	0.9	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7
G90.0	0.8	0.8	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6
G91.0	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.7
G92.0	0.7	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.6
G93.0	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.7
G94.0	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.6	0.6
G95.0	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6
G96.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6
G97.0	0.7	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
G98.0	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.7	0.6	0.7
G99.0	0.7	0.7	0.6	0.7	0.7	0.8	0.7	0.7	0.7	0.7
G100.0	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7
G101.0	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7
G102.0	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7
G103.0	0.8	0.7	0.8	0.7	0.8	0.8	0.8	0.8	0.7	0.7
G104.0	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
G105.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8
G106.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.8
G107.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
G108.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
G109.0	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8
G110.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

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: 7.704 m

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	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
G112.0	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
G113.0	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8
G114.0	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8
G115.0	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.8
G116.0	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8
G117.0	0.8	0.8	0.8	0.8	1.0	0.9	1.0	0.9	0.8	0.8
G118.0	0.8	0.8	0.9	0.9	0.9	0.9	1.0	0.9	0.8	0.8
G119.0	0.9	0.8	0.9	0.9	0.8	0.9	1.0	0.9	0.8	0.8
G120.0	0.9	0.9	0.9	0.9	0.9	1.0	1.1	0.9	0.9	0.8
G121.0	0.9	0.9	0.9	1.0	0.9	1.0	1.1	1.0	0.9	0.8
G122.0	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.0	0.9	0.9
G123.0	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.0	0.9	0.9
G124.0	0.9	0.9	1.0	1.0	1.1	1.0	1.2	1.1	1.0	0.9
G125.0	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.1	1.0	0.9
G126.0	0.9	0.9	1.0	1.0	1.1	1.1	1.3	1.1	1.0	0.9
G127.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.2	1.1	0.9
G128.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.2	1.1	1.0
G129.0	1.0	1.0	1.1	1.1	1.1	1.2	1.4	1.3	1.1	1.0
G130.0	1.1	1.1	1.1	1.1	1.2	1.2	1.4	1.3	1.2	1.0
G131.0	1.1	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.2	1.1
G132.0	1.1	1.0	1.1	1.2	1.3	1.3	1.5	1.4	1.3	1.1
G133.0	1.1	1.1	1.2	1.3	1.3	1.4	1.6	1.5	1.3	1.2
G134.0	1.1	1.2	1.2	1.3	1.4	1.4	1.7	1.5	1.4	1.2
G135.0	1.2	1.2	1.3	1.3	1.4	1.4	1.8	1.6	1.4	1.3
G136.0	1.2	1.2	1.3	1.4	1.4	1.5	1.9	1.6	1.5	1.3
G137.0	1.2	1.2	1.3	1.4	1.5	1.6	2.0	1.9	1.6	1.4
G138.0	1.3	1.3	1.4	1.4	1.6	1.7	2.1	1.9	1.7	1.4
G139.0	1.3	1.4	1.4	1.5	1.5	1.8	2.3	2.1	1.8	1.5
G140.0	1.4	1.4	1.4	1.6	1.7	1.9	2.4	2.2	1.9	1.7
G141.0	1.4	1.4	1.4	1.7	1.9	2.0	2.5	2.4	2.0	1.8
G142.0	1.4	1.4	1.5	1.7	1.9	2.1	2.7	2.5	2.1	1.9
G143.0	1.4	1.5	1.7	1.9	2.0	2.3	2.9	2.6	2.3	1.9
G144.0	1.5	1.6	1.7	1.9	2.2	2.4	3.0	2.7	2.4	2.1
G145.0	1.6	1.7	1.8	2.0	2.4	2.5	3.1	2.9	2.5	2.2
G146.0	1.7	1.7	1.9	2.2	2.5	2.6	3.3	3.0	2.7	2.3
G147.0	1.8	1.9	2.0	2.3	2.5	2.8	3.4	3.1	2.8	2.5

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: 7.704 m

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	1.9	1.9	2.1	2.5	2.7	3.0	3.5	3.3	3.0	2.6
G149.0	1.9	2.0	2.3	2.5	2.9	3.0	3.5	3.4	3.0	2.8
G150.0	2.1	2.1	2.4	2.7	3.0	3.1	3.6	3.5	3.2	2.9
G151.0	2.2	2.3	2.5	2.9	3.1	3.3	3.7	3.5	3.3	3.0
G152.0	2.4	2.5	2.7	3.0	3.2	3.4	3.8	3.5	3.4	3.1
G153.0	2.5	2.6	2.8	3.1	3.3	3.5	3.8	3.6	3.5	3.2
G154.0	2.6	2.7	3.0	3.2	3.5	3.5	3.9	3.7	3.5	3.3
G155.0	2.8	2.9	3.0	3.3	3.5	3.5	3.9	3.7	3.5	3.4
G156.0	2.9	3.0	3.2	3.4	3.5	3.6	3.9	3.7	3.6	3.5
G157.0	3.0	3.0	3.3	3.5	3.6	3.6	3.9	3.8	3.6	3.5
G158.0	3.1	3.2	3.4	3.5	3.7	3.6	3.9	3.8	3.6	3.6
G159.0	3.3	3.3	3.5	3.5	3.7	3.6	3.9	3.8	3.7	3.6
G160.0	3.4	3.4	3.5	3.8	3.7	3.7	3.9	3.8	3.7	3.7
G161.0	3.5	3.5	3.6	3.7	3.7	3.7	3.9	3.8	3.7	3.7
G162.0	3.5	3.5	3.6	3.7	3.7	3.6	3.8	3.7	3.7	3.7
G163.0	3.6	3.6	3.7	3.7	3.7	3.6	3.8	3.7	3.7	3.7
G164.0	3.6	3.6	3.7	3.7	3.7	3.5	3.7	3.7	3.7	3.7
G165.0	3.7	3.7	3.7	3.7	3.6	3.5	3.7	3.6	3.6	3.7
G166.0	3.8	3.7	3.7	3.7	3.6	3.5	3.6	3.6	3.7	3.7
G167.0	3.7	3.7	3.7	3.7	3.5	3.5	3.5	3.5	3.6	3.7
G168.0	3.7	3.7	3.7	3.6	3.5	3.4	3.5	3.5	3.5	3.6
G169.0	3.8	3.7	3.6	3.6	3.5	3.3	3.4	3.5	3.5	3.6
G170.0	3.8	3.7	3.6	3.6	3.4	3.2	3.3	3.4	3.5	3.6
G171.0	3.7	3.7	3.6	3.5	3.4	3.2	3.3	3.3	3.4	3.5
G172.0	3.7	3.6	3.5	3.5	3.3	3.1	3.2	3.2	3.3	3.5
G173.0	3.7	3.6	3.5	3.5	3.3	3.1	3.1	3.2	3.4	3.5
G174.0	3.6	3.5	3.5	3.4	3.2	3.1	3.1	3.1	3.3	3.4
G175.0	3.6	3.5	3.5	3.3	3.2	3.0	3.1	3.1	3.2	3.4
G176.0	3.5	3.5	3.4	3.3	3.1	3.0	3.1	3.1	3.2	3.4
G177.0	3.5	3.4	3.3	3.3	3.1	3.0	3.1	3.2	3.2	3.3
G178.0	3.4	3.4	3.3	3.2	3.2	3.1	3.2	3.2	3.2	3.2
G179.0	3.3	3.3	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.2
G180.0	3.2	3.2	3.2	3.3	3.2	3.2	3.3	3.3	3.2	3.2

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: 7.704 m

Humidity:

Inspector:

## Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	2671.4	2675.9	2581.0							
G1.0	2783.2	2868.1	2808.6							
G2.0	2846.7	3021.9	3002.6							
G3.0	2847.1	3113.1	3144.0							
G4.0	2788.7	3137.6	3229.4							
G5.0	2675.5	3087.5	3238.9							
G6.0	2509.3	2965.0	3169.9							
G7.0	2314.2	2790.3	3036.3							
G8.0	2100.5	2586.9	2847.8							
G9.0	1868.9	2348.7	2628.7							
G10.0	1639.5	2101.3	2386.3							
G11.0	1417.0	1849.9	2133.5							
G12.0	1210.4	1602.7	1873.7							
G13.0	1028.9	1375.8	1628.1							
G14.0	874.2	1174.7	1397.8							
G15.0	747.3	991.9	1191.7							
G16.0	646.5	839.5	1009.6							
G17.0	565.8	719.6	857.2							
G18.0	501.4	626.5	738.5							
G19.0	445.3	552.6	646.1							
G20.0	398.4	492.3	571.3							
G21.0	360.7	440.5	509.1							
G22.0	327.5	397.3	458.8							
G23.0	300.2	358.8	414.0							
G24.0	277.1	326.0	373.7							
G25.0	256.5	297.7	338.5							
G26.0	238.8	272.9	306.9							
G27.0	224.2	251.1	279.4							
G28.0	211.1	232.3	254.9							
G29.0	199.1	215.4	234.0							
G30.0	188.4	200.9	215.3							
G31.0	178.8	188.7	199.3							
G32.0	169.6	177.3	186.6							
G33.0	161.4	167.8	174.9							
G34.0	153.9	159.0	165.0							
G35.0	146.9	151.2	156.3							
G36.0	140.8	144.4	148.2							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	135.0	138.2	141.0							
G38.0	129.8	132.4	134.7							
G39.0	124.9	127.1	128.7							
G40.0	120.5	122.3	123.3							
G41.0	116.5	118.0	118.5							
G42.0	112.8	113.8	113.9							
G43.0	109.3	110.3	109.8							
G44.0	106.0	106.8	106.2							
G45.0	102.8	103.5	102.5							
G46.0	99.8	100.4	99.2							
G47.0	97.1	97.6	96.0							
G48.0	94.5	95.0	93.1							
G49.0	92.2	92.6	90.3							
G50.0	90.1	90.3	87.7							
G51.0	88.1	88.2	85.3							
G52.0	86.4	86.3	83.0							
G53.0	84.7	84.3	80.8							
G54.0	83.0	82.6	78.8							
G55.0	81.2	81.1	77.0							
G56.0	79.7	79.8	75.4							
G57.0	78.2	78.3	73.8							
G58.0	76.6	77.0	72.4							
G59.0	75.1	75.4	70.9							
G60.0	73.3	74.0	69.5							
G61.0	71.4	72.4	68.1							
G62.0	69.5	70.7	66.7							
G63.0	67.4	68.9	65.2							
G64.0	65.3	66.8	63.5							
G65.0	63.3	64.8	61.8							
G66.0	61.0	62.7	59.9							
G67.0	58.7	60.6	58.1							
G68.0	56.4	58.2	56.1							
G69.0	53.9	55.8	53.9							
G70.0	51.4	53.3	51.8							
G71.0	49.0	51.0	49.8							
G72.0	46.4	48.4	47.5							
G73.0	43.9	46.0	45.2							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	41.3	43.5	43.0							
G75.0	38.7	40.9	40.6							
G76.0	36.0	38.3	38.0							
G77.0	33.3	35.5	35.5							
G78.0	30.5	32.8	32.9							
G79.0	27.8	30.0	30.3							
G80.0	24.8	27.3	27.7							
G81.0	22.1	24.5	25.0							
G82.0	19.3	21.7	22.2							
G83.0	16.6	18.1	18.6							
G84.0	13.2	12.8	13.6							
G85.0	8.5	7.6	8.4							
G86.0	4.1	3.8	4.5							
G87.0	1.6	1.8	2.0							
G88.0	1.0	1.1	1.3							
G89.0	0.8	1.0	1.0							
G90.0	0.8	0.8	0.8							
G91.0	0.6	0.6	0.7							
G92.0	0.6	0.6	0.7							
G93.0	0.6	0.6	0.6							
G94.0	0.6	0.6	0.7							
G95.0	0.7	0.6	0.7							
G96.0	0.7	0.6	0.7							
G97.0	0.7	0.6	0.7							
G98.0	0.7	0.6	0.7							
G99.0	0.7	0.6	0.7							
G100.0	0.7	0.6	0.7							
G101.0	0.7	0.7	0.7							
G102.0	0.7	0.7	0.7							
G103.0	0.7	0.7	0.8							
G104.0	0.7	0.7	0.8							
G105.0	0.7	0.7	0.8							
G106.0	0.7	0.7	0.8							
G107.0	0.8	0.7	0.8							
G108.0	0.7	0.8	0.8							
G109.0	0.8	0.8	0.8							
G110.0	0.8	0.8	0.8							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	0.8	0.8	0.8							
G112.0	0.8	0.8	0.8							
G113.0	0.8	0.8	0.8							
G114.0	0.8	0.8	0.8							
G115.0	0.8	0.8	0.8							
G116.0	0.8	0.8	0.8							
G117.0	0.8	0.8	0.8							
G118.0	0.8	0.8	0.8							
G119.0	0.8	0.8	0.9							
G120.0	0.8	0.8	0.9							
G121.0	0.8	0.8	0.9							
G122.0	0.9	0.8	0.9							
G123.0	0.8	0.8	0.9							
G124.0	0.9	0.9	0.9							
G125.0	0.9	0.9	0.9							
G126.0	1.0	0.9	0.9							
G127.0	1.0	0.9	1.0							
G128.0	1.0	1.0	1.0							
G129.0	1.0	1.0	1.0							
G130.0	1.0	1.0	1.1							
G131.0	1.1	1.0	1.1							
G132.0	1.1	1.0	1.1							
G133.0	1.1	1.1	1.1							
G134.0	1.2	1.1	1.1							
G135.0	1.2	1.1	1.2							
G136.0	1.3	1.2	1.2							
G137.0	1.3	1.3	1.2							
G138.0	1.4	1.3	1.3							
G139.0	1.4	1.4	1.3							
G140.0	1.5	1.4	1.4							
G141.0	1.6	1.4	1.4							
G142.0	1.6	1.6	1.4							
G143.0	1.8	1.7	1.4							
G144.0	1.9	1.7	1.5							
G145.0	1.9	1.8	1.6							
G146.0	2.1	1.9	1.7							
G147.0	2.3	2.1	1.8							

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: 7.704 m  
 Humidity:  
 Inspector:

## Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	2.4	2.2	1.9							
G149.0	2.5	2.4	1.9							
G150.0	2.6	2.5	2.1							
G151.0	2.8	2.6	2.2							
G152.0	2.9	2.8	2.4							
G153.0	3.0	3.0	2.5							
G154.0	3.1	3.0	2.6							
G155.0	3.3	3.2	2.8							
G156.0	3.5	3.3	2.9							
G157.0	3.5	3.4	3.0							
G158.0	3.5	3.5	3.1							
G159.0	3.5	3.5	3.3							
G160.0	3.6	3.5	3.4							
G161.0	3.7	3.6	3.5							
G162.0	3.7	3.6	3.5							
G163.0	3.7	3.7	3.6							
G164.0	3.7	3.7	3.6							
G165.0	3.7	3.7	3.7							
G166.0	3.8	3.8	3.8							
G167.0	3.8	3.8	3.7							
G168.0	3.7	3.8	3.7							
G169.0	3.7	3.8	3.8							
G170.0	3.7	3.7	3.8							
G171.0	3.6	3.7	3.7							
G172.0	3.6	3.7	3.7							
G173.0	3.5	3.6	3.7							
G174.0	3.5	3.5	3.6							
G175.0	3.5	3.5	3.6							
G176.0	3.4	3.5	3.5							
G177.0	3.3	3.4	3.5							
G178.0	3.3	3.4	3.4							
G179.0	3.3	3.3	3.3							
G180.0	3.2	3.2	3.2							

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: 7.704 m

Humidity:

Inspector: