

Report No.:

Test Time: 2020-08-31 08:50

Luminaire Property

Luminaire Manufacturer: ASD Lighting Corp

Luminaire Description: ASD-LMPJBR-12D24CC-BZ-4K

Luminous Length (mm): 240

Luminous Width (mm): 240

Voltage: 120.3 V

Current: 0.190 A

Power: 22.71 W

Power Factor: 0.991

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2234.1 lm

Measurement Flux: 2234.1 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.1, 160.7, 160.9, 160.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.1, 108.3, 108.4, 108.1

Luminaire Efficacy Rating (LER): 98.42

Central Intensity: 814.97 cd

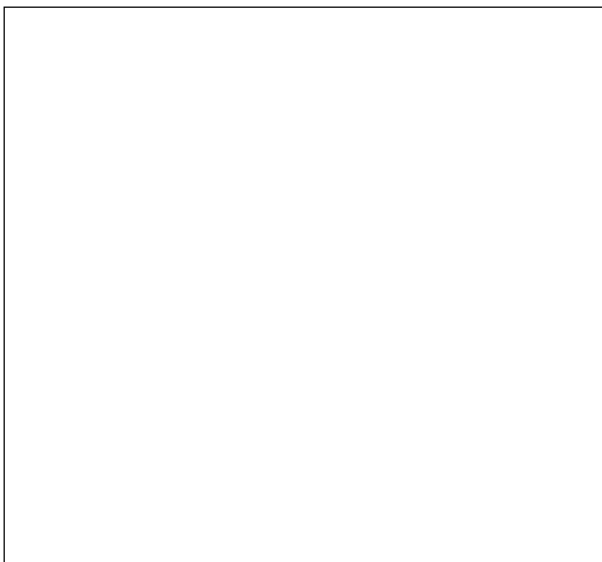
Max. Intensity: 819.29 cd

Pos of Max. Intensity: H180 V1

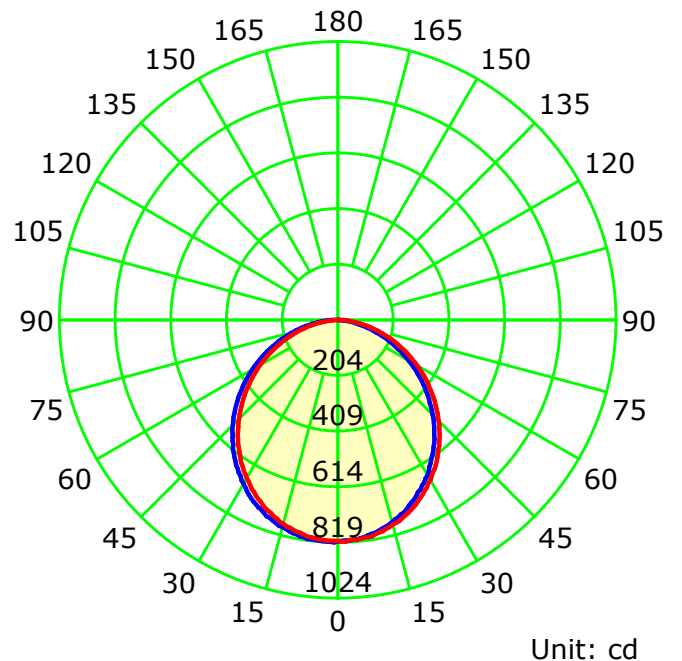
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab:

Test Device: GPM-1600L

Test Type: TYPE C

Distance: 6.935 m

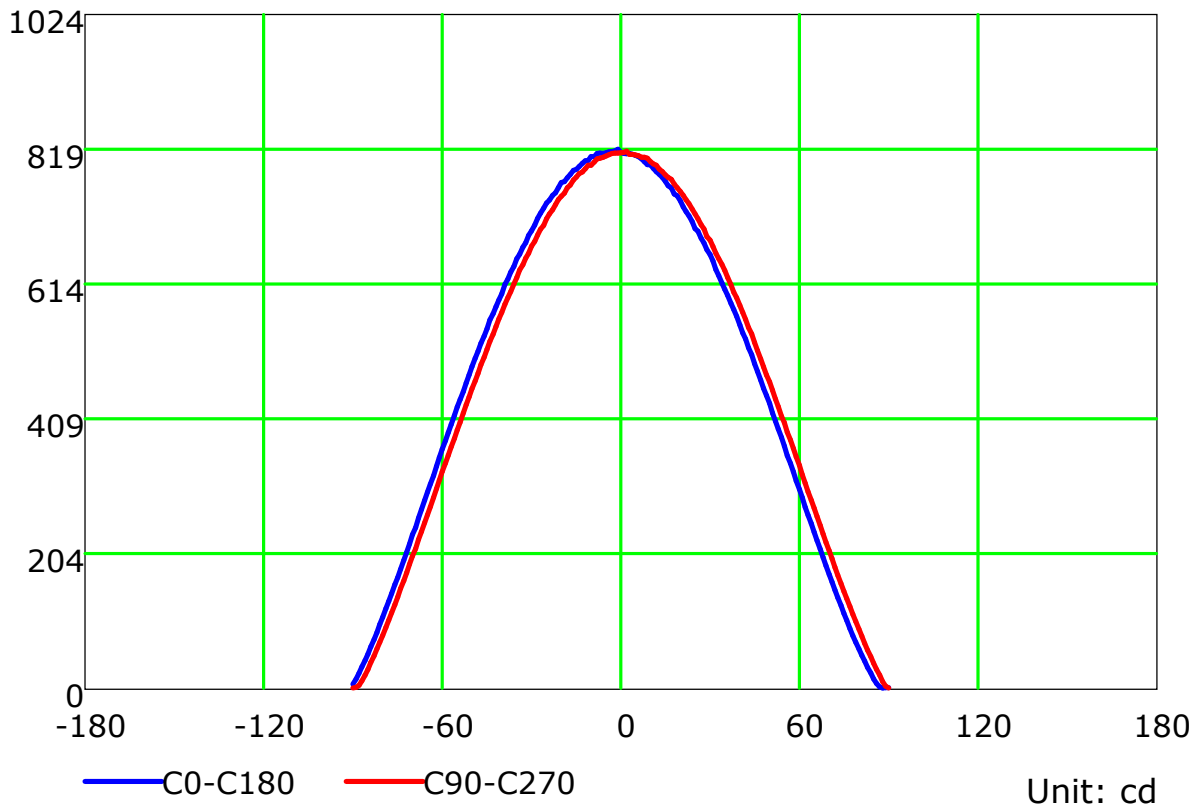
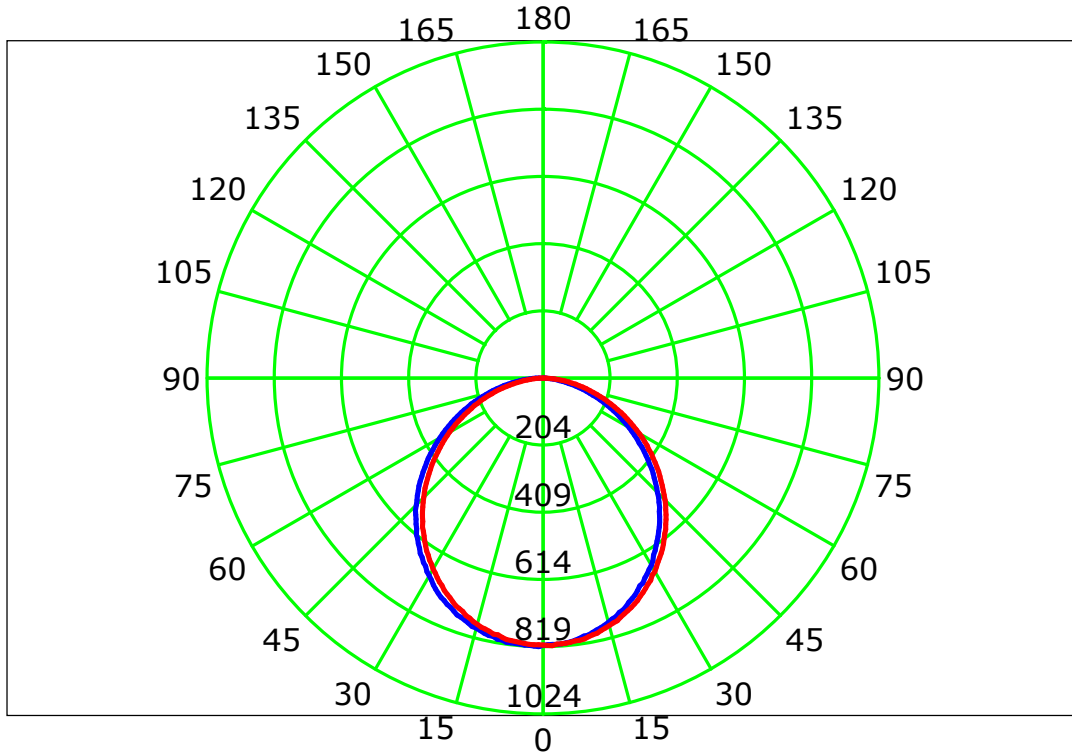
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve

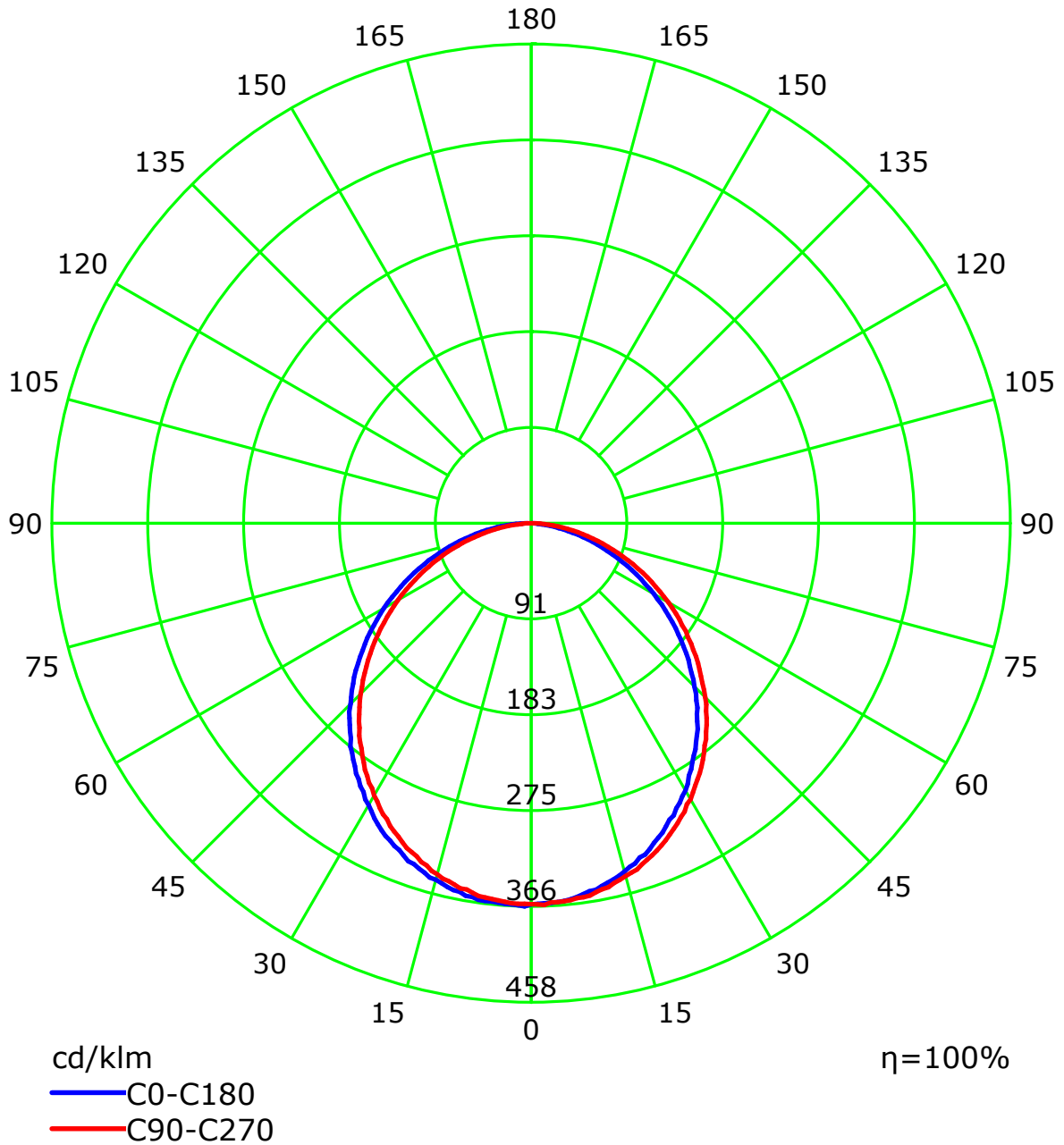


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Unit: cd

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

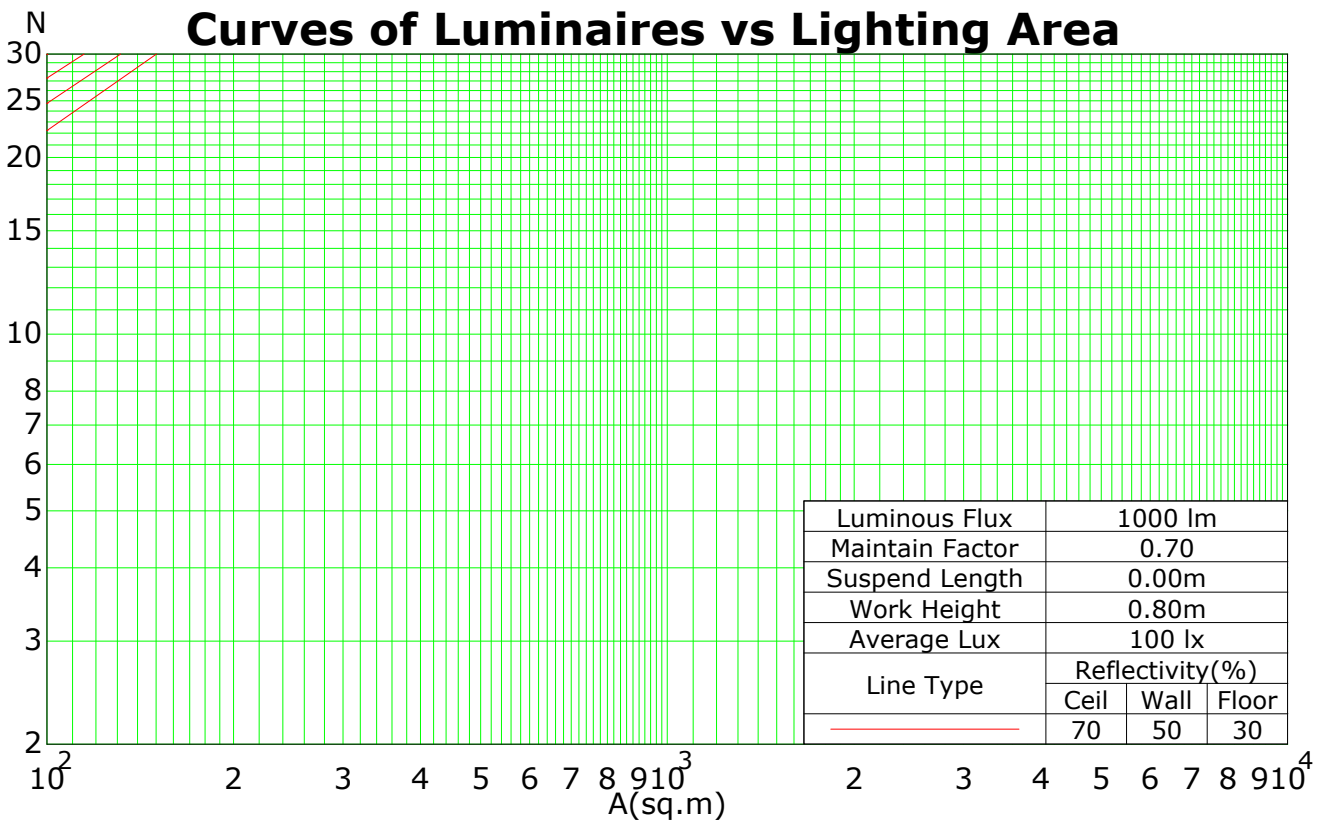
Humidity:

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	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

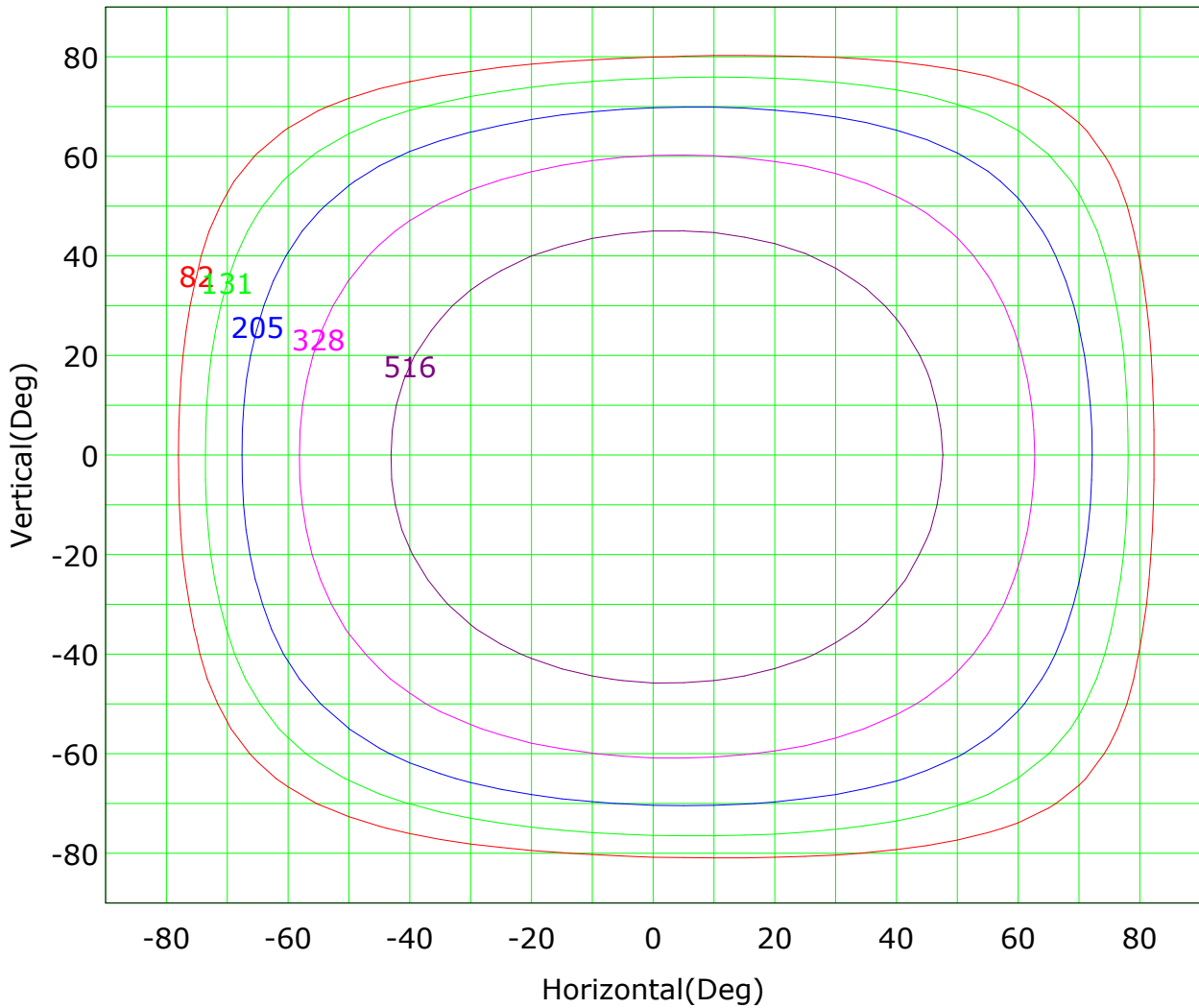
Spacing Criteria (0-180): 1.23
 Spacing Criteria (90-270): 1.23
 Spacing Criteria (Diagonal): 1.35



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Isocandela (rectangle)



Imax (100%): 819 cd

— (10%):	82 cd	— (16%):	131 cd
— (25%):	205 cd	— (40%):	328 cd
— (63%):	516 cd	— (100%):	819 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

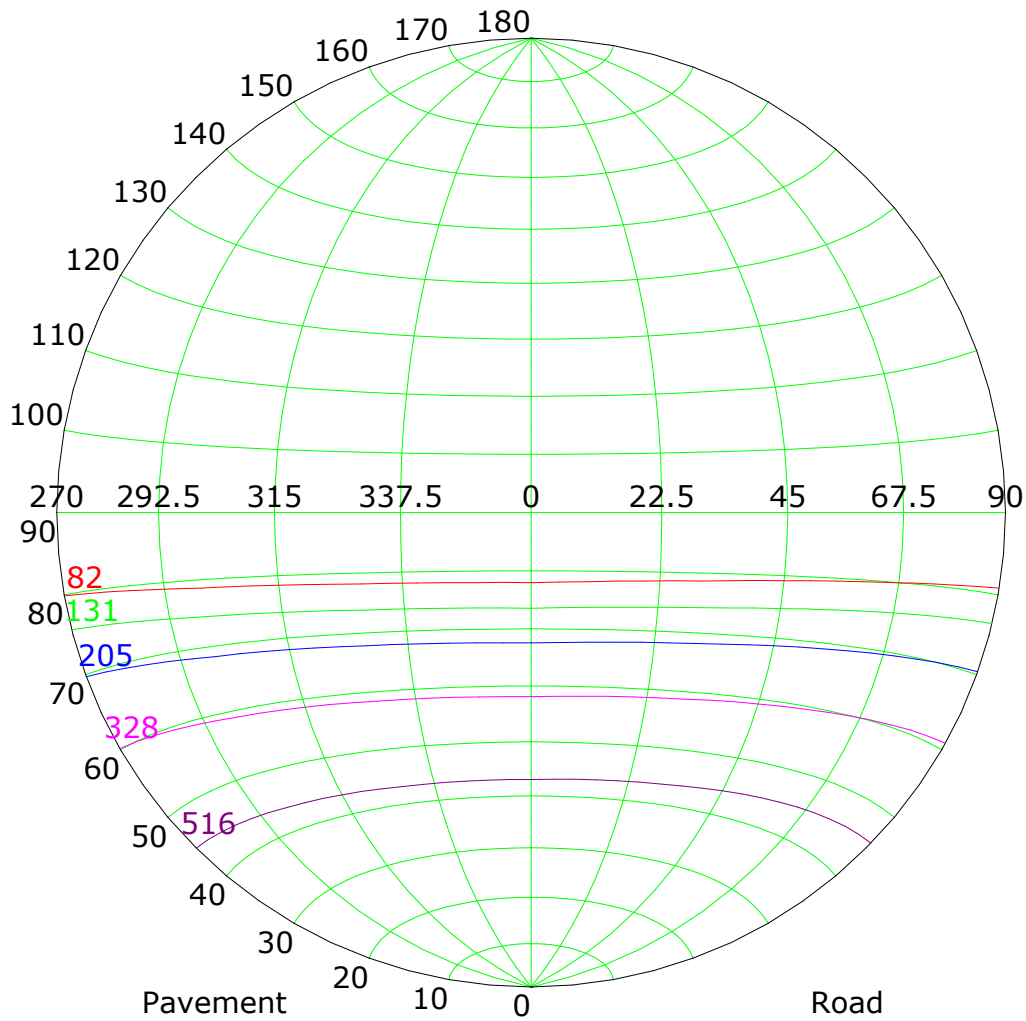
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 819 cd

— (10%):	82 cd	— (16%):	131 cd
— (25%):	205 cd	— (40%):	328 cd
— (63%):	516 cd	— (100%):	819 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

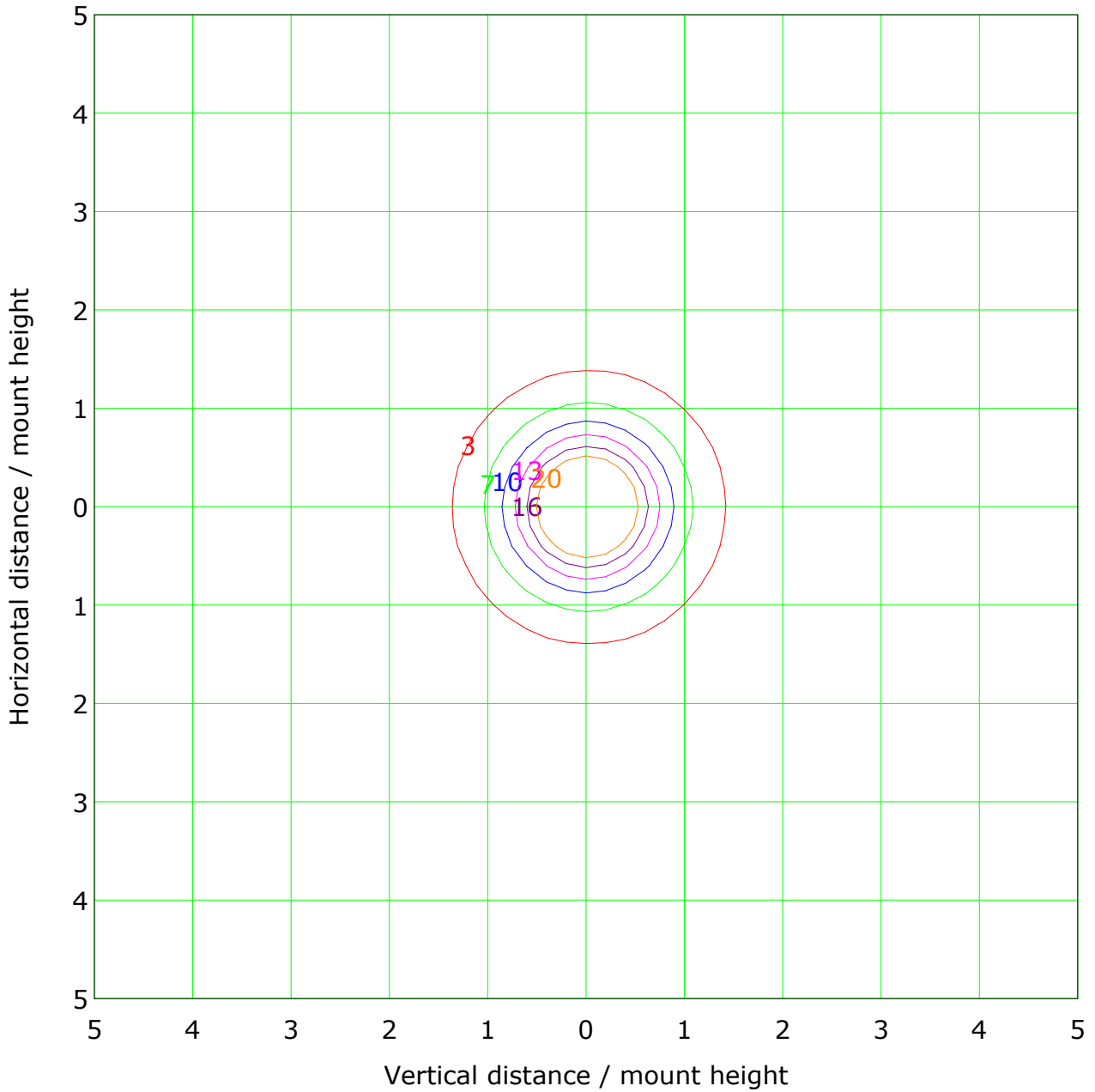
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 32.8 lx	
<ul style="list-style-type: none"> — (10%): 3.3 lx — (30%): 9.8 lx — (50%): 16.4 lx — (100%): 32.8 lx 	<ul style="list-style-type: none"> — (20%): 6.6 lx — (40%): 13.1 lx — (60%): 19.7 lx 		

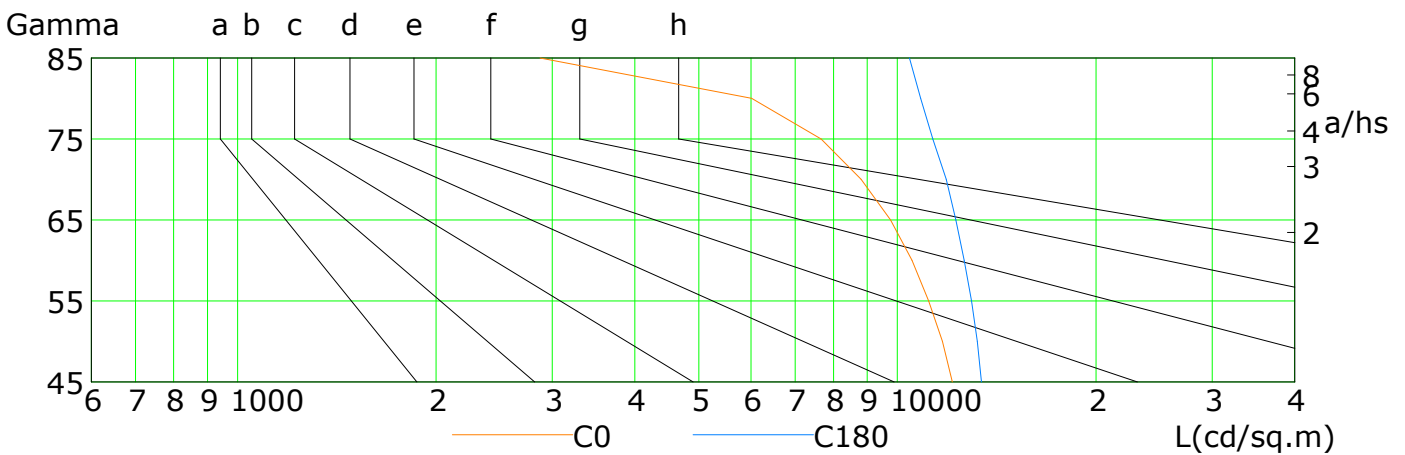
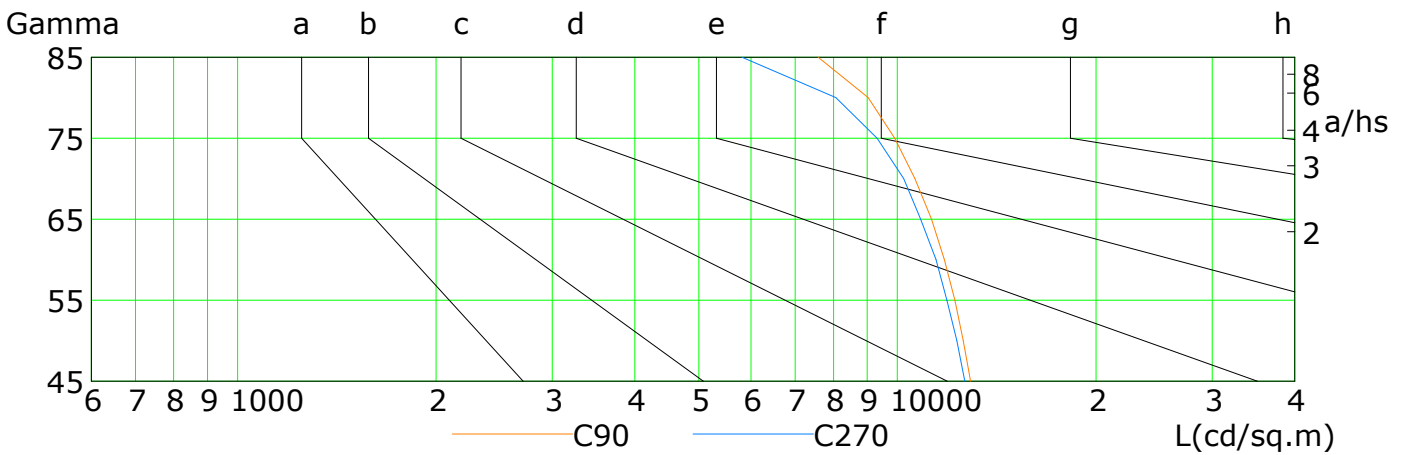
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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	12113	11702	11157	10522	9764	8814	7660	6012	2874
C90	12910	12585	12226	11786	11265	10633	9909	9031	7585
C180	13416	13214	12946	12625	12265	11857	11309	10845	10426
C270	12657	12302	11890	11443	10842	10222	9312	8063	5815

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

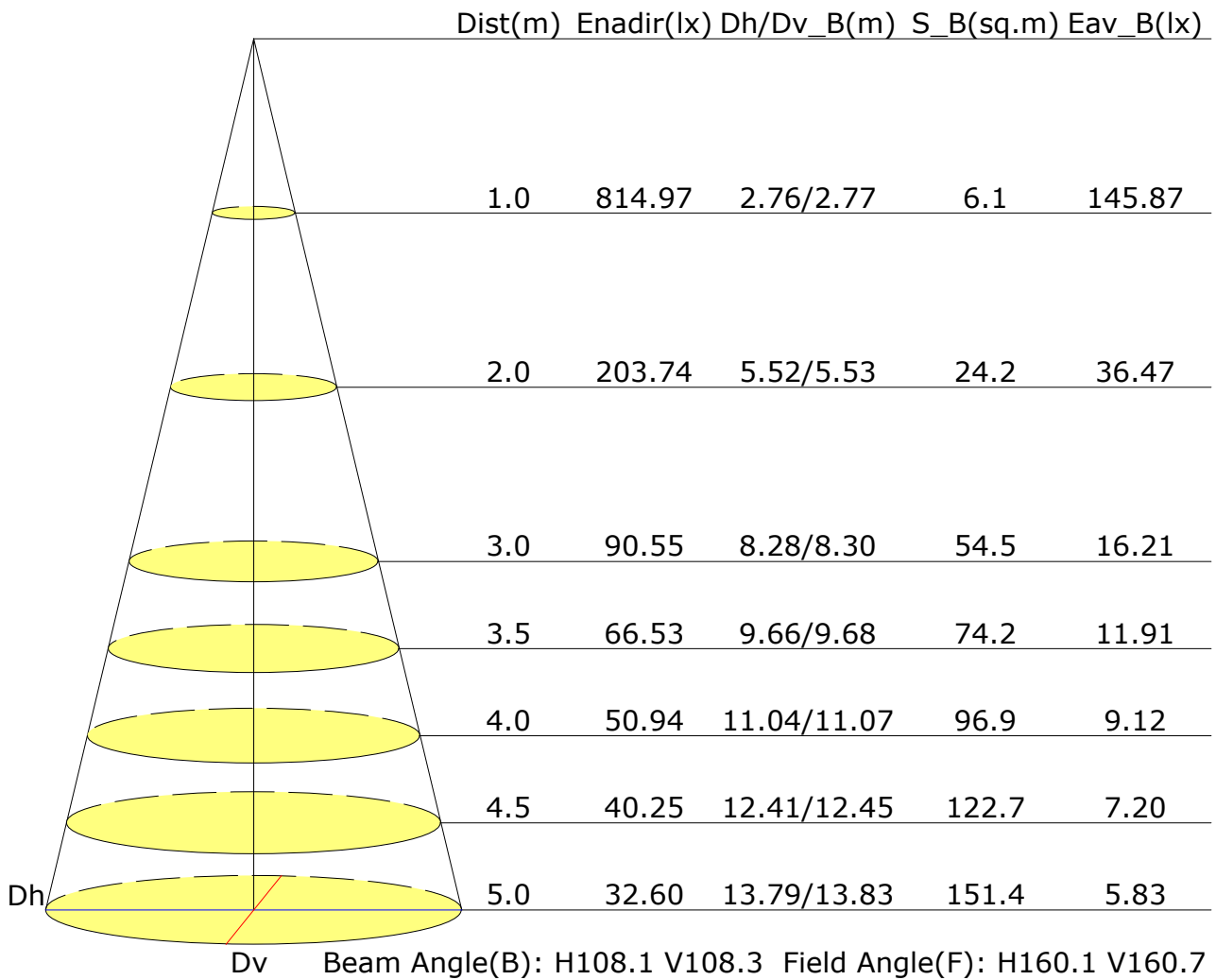
Test Device: GPM-1600L

Distance: 6.935 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 (°):0.0-90.0:1.0

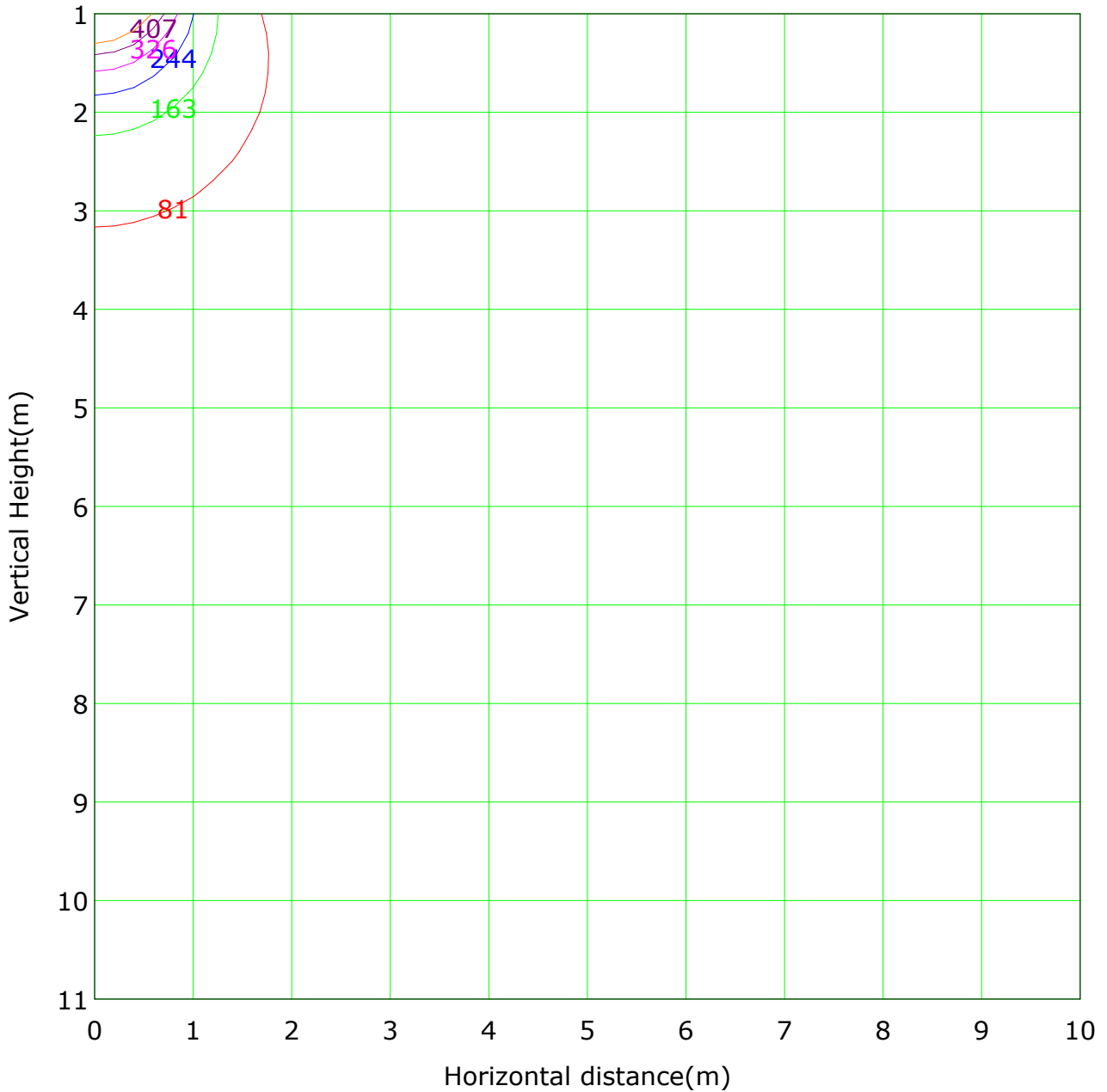
Test Device: GPM-1600L

Distance: 6.935 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 815.0 lx

— (10%): 81.5 lx	— (20%): 163.0 lx
— (30%): 244.5 lx	— (40%): 326.0 lx
— (50%): 407.5 lx	— (60%): 489.0 lx
— (100%): 815.0 lx	

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.935 m
Humidity:
Inspector:

Area Flux Table

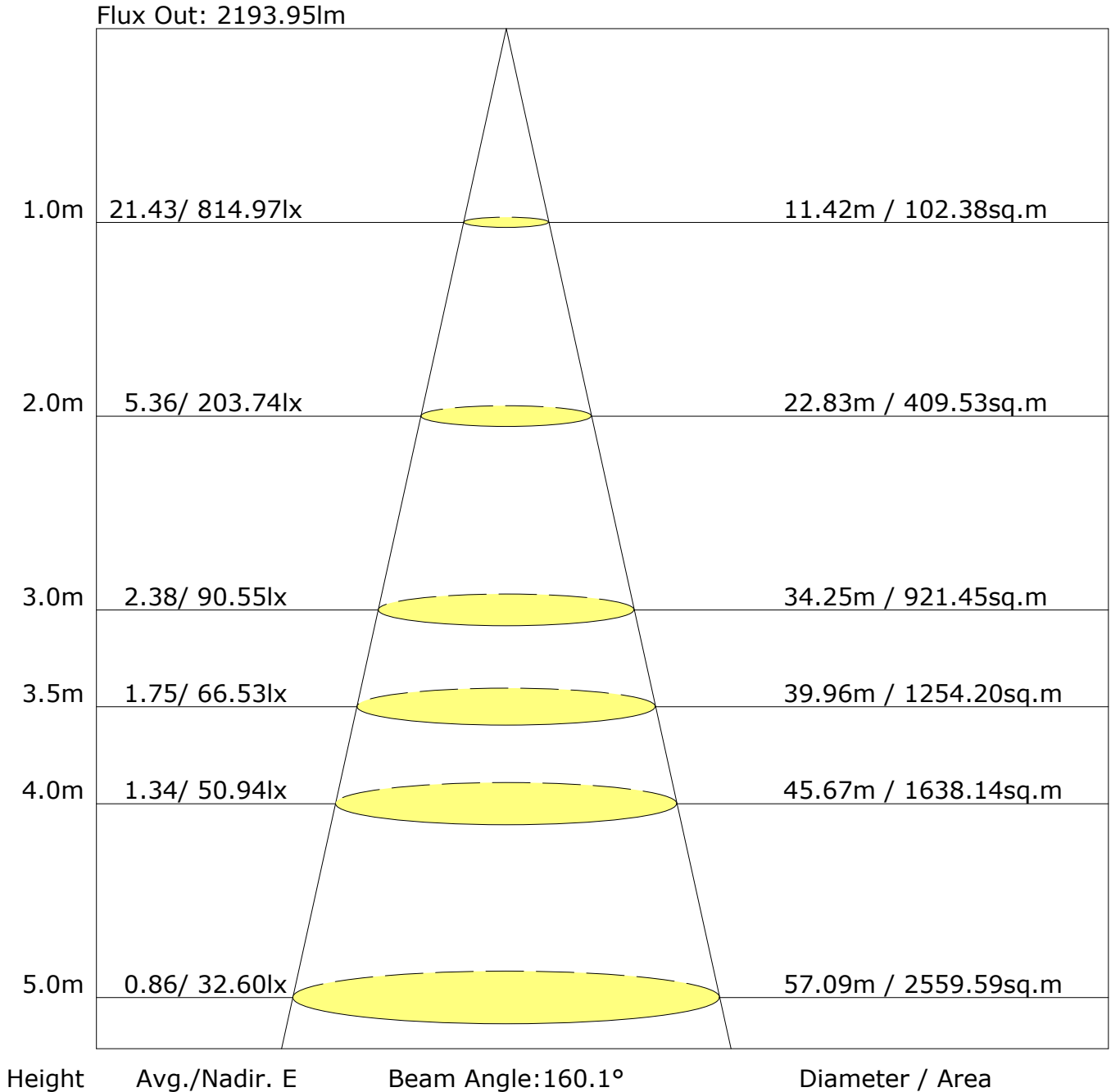
Unit: lm

-90	0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.1	1.0	0.9	0.8	0.6	0.4	0.3	0.1	0.0	0.0	0.0	9.0	0.0		
-80	0.1	0.3	0.8	1.5	2.3	3.1	3.7	4.1	4.3	4.1	3.7	3.1	2.3	1.5	0.9	0.4	0.1	0.0	36.4	31.0		
-70	0.1	0.5	1.4	2.7	4.1	5.5	6.8	7.7	8.1	7.9	7.2	6.0	4.7	3.2	1.9	0.9	0.2	0.0	68.8	67.2		
-60	0.1	0.7	2.0	3.8	5.9	8.1	9.9	11.3	11.9	11.7	10.7	9.1	7.1	4.9	2.9	1.4	0.4	0.0	102.2	101.4		
-50	0.1	0.9	2.6	4.9	7.6	10.4	12.9	14.7	15.6	15.4	14.2	12.1	9.4	6.6	4.0	1.9	0.6	0.0	134.0	133.5		
-40	0.2	1.1	3.0	5.8	9.2	12.6	15.6	17.8	18.9	18.7	17.2	14.7	11.5	8.1	4.9	2.3	0.7	0.1	162.3	161.9		
-30	0.2	1.2	3.4	6.6	10.4	14.3	17.7	20.3	21.5	21.3	19.7	16.8	13.2	9.3	5.6	2.7	0.8	0.1	185.3	185.0		
-20	0.2	1.3	3.7	7.1	11.2	15.5	19.3	22.1	23.5	23.2	21.4	18.4	14.4	10.1	6.2	3.0	0.9	0.1	201.6	201.3		
-10	0.2	1.4	3.9	7.4	11.7	16.1	20.1	23.0	24.5	24.2	22.4	19.2	15.0	10.6	6.4	3.1	0.9	0.1	210.2	210.0		
0	0.2	1.4	3.9	7.4	11.7	16.1	20.1	23.0	24.5	24.3	22.5	19.2	15.1	10.6	6.4	3.1	1.0	0.1	210.5	210.3		
10	0.2	1.3	3.7	7.1	11.2	15.5	19.3	22.1	23.6	23.4	21.6	18.5	14.5	10.2	6.2	3.0	0.9	0.1	202.5	202.2		
20	0.2	1.2	3.4	6.6	10.4	14.3	17.8	20.4	21.8	21.6	19.9	17.0	13.3	9.4	5.7	2.7	0.8	0.1	186.7	186.4		
30	0.2	1.1	3.0	5.8	9.2	12.6	15.7	18.0	19.1	19.0	17.5	15.0	11.7	8.2	5.0	2.4	0.7	0.1	164.1	163.8		
40	0.1	0.9	2.5	4.9	7.7	10.5	13.1	14.9	15.9	15.7	14.5	12.4	9.7	6.7	4.1	1.9	0.6	0.0	136.1	135.6		
50	0.1	0.7	2.0	3.8	5.9	8.1	10.1	11.5	12.2	12.0	11.1	9.4	7.3	5.1	3.0	1.4	0.4	0.0	104.4	103.6		
60	0.1	0.5	1.4	2.7	4.1	5.6	6.9	7.9	8.3	8.2	7.5	6.3	4.9	3.4	2.0	0.9	0.2	0.0	70.9	69.4		
70	0.1	0.3	0.8	1.5	2.3	3.2	3.9	4.3	4.5	4.4	4.0	3.3	2.5	1.7	1.0	0.4	0.1	0.0	38.4	33.7		
80	0.0	0.1	0.3	0.5	0.8	1.0	1.2	1.3	1.3	1.2	1.0	0.8	0.6	0.3	0.2	0.1	0.0	0.0	10.6	0.9		
90	Flux(T)	2.2	15.4	42.3	80.9	126.5	173.3	215.1	245.5	260.3	257.4	236.9	201.9	157.6	110.3	66.4	31.5	9.4	0.7	2234		
	Flux(E)	0.5	13.3	40.3	78.8	124.4	171.2	213.1	243.4	258.3	255.4	234.9	199.8	155.5	108.2	64.2	29.2	6.3	0.0		2197	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

Gamma Plane (°): 0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

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

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 m

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	20.7	22.1	21.0	22.3	22.6	21.1	22.4	21.4	22.7	22.9
3H	22.1	23.3	22.4	23.6	23.9	22.6	23.8	22.9	24.1	24.4
4H	22.5	23.7	22.9	24.0	24.3	23.2	24.4	23.5	24.6	24.9
6H	22.8	23.9	23.2	24.2	24.6	23.6	24.7	24.0	25.0	25.3
8H	22.9	24.0	23.3	24.3	24.6	23.7	24.8	24.1	25.1	25.5
12H	22.9	23.9	23.3	24.3	24.6	23.8	24.8	24.2	25.2	25.5
X=4H Y=2H	21.4	22.6	21.7	22.8	23.1	21.6	22.8	22.0	23.1	23.4
3H	22.9	23.9	23.3	24.2	24.6	23.3	24.3	23.7	24.7	25.0
4H	23.5	24.4	23.9	24.8	25.1	24.0	25.0	24.5	25.3	25.7
6H	23.9	24.7	24.3	25.1	25.5	24.6	25.4	25.0	25.8	26.2
8H	24.0	24.7	24.4	25.1	25.6	24.8	25.5	25.2	25.9	26.4
12H	24.0	24.7	24.5	25.1	25.5	24.9	25.6	25.4	26.0	26.4
X=8H Y=4H	23.8	24.5	24.2	24.9	25.3	24.3	25.0	24.7	25.4	25.8
6H	24.3	24.9	24.7	25.3	25.8	24.9	25.5	25.4	26.0	26.4
8H	24.4	25.0	24.9	25.4	25.9	25.2	25.7	25.7	26.2	26.7
12H	24.5	25.0	25.0	25.4	25.9	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	23.8	24.5	24.2	24.9	25.3	24.3	24.9	24.7	25.4	25.8
6H	24.3	24.9	24.8	25.3	25.8	25.0	25.5	25.5	26.0	26.4
8H	24.5	25.0	25.0	25.4	25.9	25.3	25.7	25.8	26.2	26.7
Variations with the observer position at spacings:										
S=1.0H					+0.2/-0.2					+0.2/-0.2
S=1.5H					+0.3/-0.5					+0.3/-0.5
S=2.0H					+0.6/-1.0					+0.6/-0.9

Calculate in accordance with CIE Pub.117. The table is revised with 2234lm ($8\log(F/F_0) = 2.8$).

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1124	50.3
	FL (0°-30°)	314	14.1
	FM (30°-60°)	578	25.9
	FH (60°-80°)	211	9.4
	FVH (80°-90°)	21	1.0
	BACK LIGHT	1110	49.7
	BL (0°-30°)	313	14.0
	BM (30°-60°)	572	25.6
	BH (60°-80°)	206	9.2
	BVH (80°-90°)	19	0.9
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 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	0.57	0.68	0.75	0.80	0.88	0.93	0.96	1.01	1.04	
	0.30		0.49	0.60	0.68	0.73	0.81	0.87	0.91	0.96	1.00	
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.87	0.93	0.97	
0.50	0.50	0.20	0.56	0.66	0.72	0.77	0.84	0.89	0.92	0.97	0.99	
	0.30		0.49	0.59	0.66	0.72	0.79	0.84	0.88	0.93	0.96	
	0.20		0.43	0.54	0.61	0.67	0.75	0.80	0.84	0.90	0.94	
0.30	0.50	0.20	0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.30		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
	0.20		0.43	0.53	0.60	0.66	0.73	0.79	0.82	0.88	0.91	
0.00	0.00	0.00	0.41	0.51	0.57	0.63	0.70	0.75	0.78	0.83	0.86	
<p>Rating:23W 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>												

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

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	0.99	0.82	0.70	0.61	0.48	0.40	0.34	0.27	0.22	
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.46	0.42	0.33	0.25	0.21	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20	
	0.30		0.79	0.67	0.57	0.50	0.41	0.34	0.29	0.23	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18	
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14	
<p>Rating:23W 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>												

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
<p>Rating:23W 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>											

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	814.9	0.8	0.8	0.03	0.03
1.0-2.0	814.8	2.3	3.1	0.10	0.14
2.0-3.0	813.3	3.9	7.0	0.17	0.31
3.0-4.0	812.4	5.4	12.4	0.24	0.56
4.0-5.0	811.6	7.0	19.4	0.31	0.87
5.0-6.0	810.1	8.5	27.9	0.38	1.25
6.0-7.0	808.4	10.0	38.0	0.45	1.70
7.0-8.0	806.4	11.5	49.5	0.52	2.22
8.0-9.0	803.4	13.0	62.5	0.58	2.80
9.0-10.0	800.6	14.5	77.0	0.65	3.45
10.0-11.0	797.4	15.9	93.0	0.71	4.16
11.0-12.0	793.3	17.3	110.3	0.78	4.94
12.0-13.0	789.4	18.7	129.1	0.84	5.78
13.0-14.0	785.5	20.1	149.2	0.90	6.68
14.0-15.0	781.6	21.5	170.6	0.96	7.64
15.0-16.0	776.8	22.8	193.4	1.02	8.66
16.0-17.0	771.9	24.0	217.4	1.08	9.73
17.0-18.0	766.6	25.3	242.7	1.13	10.86
18.0-19.0	760.6	26.5	269.2	1.18	12.05
19.0-20.0	755.0	27.6	296.8	1.24	13.29
20.0-21.0	749.2	28.8	325.6	1.29	14.57
21.0-22.0	742.5	29.8	355.4	1.34	15.91
22.0-23.0	735.6	30.9	386.3	1.38	17.29
23.0-24.0	728.8	31.9	418.2	1.43	18.72
24.0-25.0	721.5	32.8	451.0	1.47	20.19
25.0-26.0	714.0	33.7	484.7	1.51	21.69
26.0-27.0	706.1	34.5	519.2	1.55	23.24
27.0-28.0	697.7	35.3	554.6	1.58	24.82
28.0-29.0	688.9	36.0	590.6	1.61	26.44
29.0-30.0	680.1	36.7	627.3	1.64	28.08
30.0-31.0	671.8	37.4	664.7	1.67	29.75
31.0-32.0	662.5	38.0	702.7	1.70	31.45
32.0-33.0	653.0	38.5	741.2	1.72	33.18
33.0-34.0	643.8	39.0	780.1	1.74	34.92
34.0-35.0	633.9	39.4	819.5	1.76	36.68
35.0-36.0	624.0	39.7	859.2	1.78	38.46

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 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	613.8	40.0	899.3	1.79	40.25
37.0-38.0	603.3	40.3	939.6	1.80	42.06
38.0-39.0	593.2	40.5	980.0	1.81	43.87
39.0-40.0	581.9	40.6	1020.6	1.82	45.69
40.0-41.0	571.0	40.7	1061.3	1.82	47.51
41.0-42.0	560.4	40.7	1102.0	1.82	49.33
42.0-43.0	548.7	40.6	1142.7	1.82	51.15
43.0-44.0	537.5	40.6	1183.2	1.82	52.96
44.0-45.0	526.2	40.4	1223.7	1.81	54.77
45.0-46.0	514.2	40.2	1263.9	1.80	56.57
46.0-47.0	502.6	40.0	1303.9	1.79	58.36
47.0-48.0	490.4	39.6	1343.5	1.77	60.14
48.0-49.0	478.1	39.3	1382.8	1.76	61.90
49.0-50.0	466.2	38.9	1421.7	1.74	63.64
50.0-51.0	453.7	38.4	1460.1	1.72	65.35
51.0-52.0	441.2	37.9	1497.9	1.69	67.05
52.0-53.0	429.2	37.3	1535.3	1.67	68.72
53.0-54.0	416.4	36.7	1572.0	1.64	70.36
54.0-55.0	403.7	36.0	1608.0	1.61	71.98
55.0-56.0	390.8	35.3	1643.3	1.58	73.56
56.0-57.0	377.9	34.6	1677.9	1.55	75.10
57.0-58.0	365.6	33.8	1711.7	1.51	76.62
58.0-59.0	352.6	33.0	1744.7	1.48	78.09
59.0-60.0	339.6	32.1	1776.8	1.44	79.53
60.0-61.0	326.8	31.2	1808.0	1.40	80.93
61.0-62.0	313.5	30.2	1838.2	1.35	82.28
62.0-63.0	300.5	29.2	1867.4	1.31	83.59
63.0-64.0	287.5	28.2	1895.6	1.26	84.85
64.0-65.0	274.7	27.2	1922.8	1.22	86.07
65.0-66.0	262.0	26.1	1949.0	1.17	87.24
66.0-67.0	248.9	25.0	1974.0	1.12	88.36
67.0-68.0	235.9	23.9	1997.9	1.07	89.43
68.0-69.0	223.0	22.7	2020.6	1.02	90.45
69.0-70.0	210.2	21.6	2042.2	0.97	91.41
70.0-71.0	198.0	20.5	2062.7	0.92	92.33
71.0-72.0	185.4	19.3	2082.0	0.86	93.19

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 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	815.0	817.7	815.2	814.1	811.5	812.0	815.0	817.7	815.2	814.1
G1.0	813.4	815.7	817.2	814.8	814.0	815.1	819.3	816.9	818.0	813.5
G2.0	812.6	815.5	813.4	816.7	814.2	814.3	817.0	817.5	813.8	813.8
G3.0	813.0	812.0	811.8	811.8	813.7	810.9	815.9	813.7	814.2	813.3
G4.0	811.8	809.9	812.8	811.7	814.0	814.6	815.6	816.1	813.0	811.4
G5.0	810.2	810.2	812.4	811.0	811.9	813.2	814.3	814.7	810.5	809.4
G6.0	808.1	808.3	808.8	809.7	810.3	811.3	813.3	812.2	808.8	807.5
G7.0	805.1	806.8	806.7	807.5	808.8	810.0	813.5	813.1	808.5	806.0
G8.0	800.7	802.6	804.8	807.5	809.4	807.8	813.1	809.2	806.4	804.9
G9.0	796.2	800.0	800.7	805.8	802.4	806.4	808.5	807.9	801.8	799.9
G10.0	795.8	796.6	798.5	800.5	801.6	803.8	808.4	804.9	802.8	795.2
G11.0	790.2	791.2	793.6	797.2	799.8	800.1	802.5	802.2	796.6	795.0
G12.0	785.5	783.9	789.0	795.1	795.6	796.0	801.9	801.1	793.7	789.6
G13.0	781.4	782.7	788.3	789.1	792.8	793.7	798.0	793.8	787.4	785.1
G14.0	776.5	779.2	782.0	785.6	789.4	788.3	793.1	789.1	789.4	782.6
G15.0	770.7	773.2	777.8	780.8	785.8	786.6	789.0	788.5	782.3	777.1
G16.0	764.0	769.0	772.3	776.6	780.0	782.0	787.5	780.9	777.3	773.0
G17.0	760.6	760.5	767.7	773.9	776.0	781.7	781.1	778.5	773.7	765.3
G18.0	751.4	756.7	760.6	766.4	771.0	772.1	776.3	774.5	768.3	761.4
G19.0	748.9	748.3	754.6	760.9	765.4	767.1	770.6	767.8	763.2	752.9
G20.0	741.4	744.7	748.8	755.4	761.0	763.8	768.9	762.1	756.2	748.2
G21.0	732.0	737.5	744.0	749.5	754.5	756.9	761.0	758.4	749.8	743.4
G22.0	724.8	729.8	735.2	742.7	747.5	750.9	753.5	752.1	742.5	735.5
G23.0	718.5	723.1	727.1	736.6	742.4	745.7	749.4	744.8	736.7	727.6
G24.0	709.4	716.3	721.8	728.6	736.0	737.8	742.3	736.3	729.8	721.4
G25.0	699.1	707.7	713.0	721.1	727.6	733.3	737.7	729.0	722.8	713.8
G26.0	695.1	697.7	706.1	713.9	719.7	725.0	730.0	726.1	714.7	703.8
G27.0	684.0	689.0	699.2	704.8	711.9	716.9	722.1	714.5	707.8	697.9
G28.0	677.1	682.1	688.4	698.6	704.1	707.4	714.5	708.9	699.6	689.1
G29.0	666.9	670.8	681.1	686.9	694.9	699.3	704.0	701.3	688.9	679.6
G30.0	659.6	662.2	672.1	681.5	687.2	691.9	695.4	692.2	679.7	672.0
G31.0	649.9	655.1	663.4	671.5	679.7	684.3	688.5	683.2	674.0	661.2
G32.0	636.5	643.1	651.7	661.2	670.4	674.3	677.3	674.1	663.9	654.2
G33.0	627.6	633.7	643.0	653.0	662.8	664.8	670.6	665.8	657.5	643.9
G34.0	616.3	621.6	634.5	644.6	652.1	656.9	659.8	655.5	646.5	636.0
G35.0	606.5	612.5	625.0	634.9	640.8	645.8	653.1	648.8	635.2	624.4
G36.0	597.2	601.3	615.2	624.5	632.4	637.0	641.7	636.6	626.5	614.6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.935 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	585.7	592.2	602.4	613.7	621.4	626.0	632.6	628.0	616.3	603.2
G38.0	575.7	580.8	592.4	602.1	613.9	615.5	622.2	617.9	606.7	594.0
G39.0	565.7	570.6	581.7	594.0	600.5	606.2	614.1	606.8	596.6	584.3
G40.0	552.6	558.0	569.8	581.9	592.1	595.4	599.9	595.4	582.4	571.4
G41.0	540.1	548.7	559.3	571.5	581.8	586.3	590.4	586.1	575.8	561.9
G42.0	531.3	536.7	549.9	560.8	567.2	574.4	580.1	574.0	563.5	549.8
G43.0	517.8	525.2	535.0	548.6	558.1	564.1	569.5	562.6	551.5	538.3
G44.0	507.0	512.5	524.8	538.7	546.4	552.2	560.4	553.2	541.9	527.8
G45.0	493.4	500.4	513.4	525.8	535.5	540.3	546.4	541.9	529.6	515.5
G46.0	482.1	488.1	501.1	513.5	524.2	530.5	535.4	529.0	519.6	503.0
G47.0	468.9	475.7	491.0	500.7	512.3	519.8	524.9	519.0	505.6	492.1
G48.0	456.0	464.0	477.4	488.5	500.0	505.4	512.4	505.4	495.2	479.2
G49.0	445.6	451.9	463.5	476.4	488.6	492.9	502.0	494.9	481.9	467.2
G50.0	433.3	440.2	451.8	466.0	476.0	483.1	489.3	483.5	468.9	455.5
G51.0	418.7	424.7	439.0	453.4	463.8	471.0	476.4	469.1	457.9	442.9
G52.0	406.6	415.1	427.8	439.9	452.1	458.6	464.6	457.8	446.6	431.3
G53.0	394.3	401.2	416.0	428.6	440.2	447.1	451.1	445.5	432.6	418.5
G54.0	381.8	388.3	401.5	413.8	425.6	433.6	439.2	433.3	421.2	404.4
G55.0	368.6	376.7	389.3	403.9	414.3	420.4	427.7	420.8	407.4	392.8
G56.0	354.1	361.4	375.7	389.4	400.3	407.4	414.7	407.6	394.9	379.5
G57.0	342.5	349.1	364.3	378.0	388.9	394.7	401.1	396.1	383.4	367.1
G58.0	329.8	338.0	352.3	365.0	376.1	382.7	389.0	383.4	370.9	354.6
G59.0	315.3	322.9	336.7	351.8	362.7	370.0	376.1	369.4	358.1	342.3
G60.0	303.0	311.1	324.1	339.4	348.9	357.3	363.6	357.5	344.5	329.6
G61.0	290.3	295.9	312.9	324.6	337.9	343.6	350.9	344.7	331.4	316.7
G62.0	275.5	284.0	299.8	311.9	323.5	330.4	337.2	331.2	318.2	303.3
G63.0	263.6	272.3	285.7	299.1	311.6	318.2	323.2	318.6	306.8	290.0
G64.0	250.9	258.9	273.2	286.4	297.7	305.0	310.9	305.3	292.2	276.2
G65.0	237.7	245.6	260.0	274.2	285.2	292.7	298.6	292.3	281.0	263.9
G66.0	225.2	233.3	247.6	261.3	271.6	279.3	285.7	279.7	267.4	251.9
G67.0	211.7	220.9	234.0	247.7	259.6	265.2	271.7	266.0	254.9	238.1
G68.0	199.4	207.3	221.6	234.9	245.1	252.8	259.0	254.4	241.5	226.5
G69.0	186.6	194.2	208.6	222.2	233.0	239.0	244.4	239.9	228.6	212.6
G70.0	173.6	182.0	195.9	209.5	219.7	226.8	233.6	228.0	216.3	201.4
G71.0	161.8	169.9	183.5	197.4	208.3	214.9	219.7	215.1	203.5	188.9
G72.0	149.5	157.0	171.4	184.1	194.5	201.6	207.0	202.6	190.9	175.6
G73.0	137.8	145.6	159.2	172.0	182.9	188.8	194.7	190.4	178.6	163.6

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	811.5	812.0	815.0						
G1.0	815.3	813.6	813.4						
G2.0	810.9	809.1	812.6						
G3.0	811.2	809.3	813.0						
G4.0	807.0	808.4	811.8						
G5.0	807.7	807.4	810.2						
G6.0	805.2	806.1	808.1						
G7.0	804.3	800.7	805.1						
G8.0	797.8	797.8	800.7						
G9.0	796.2	794.7	796.2						
G10.0	793.6	793.1	795.8						
G11.0	787.8	786.1	790.2						
G12.0	785.3	781.4	785.5						
G13.0	779.3	774.9	781.4						
G14.0	776.2	774.0	776.5						
G15.0	771.9	768.5	770.7						
G16.0	765.3	762.7	764.0						
G17.0	759.6	755.9	760.6						
G18.0	755.4	748.9	751.4						
G19.0	747.9	744.6	748.9						
G20.0	740.1	737.3	741.4						
G21.0	733.8	731.5	732.0						
G22.0	728.6	724.1	724.8						
G23.0	719.8	715.0	718.5						
G24.0	714.8	709.2	709.4						
G25.0	706.2	701.9	699.1						
G26.0	699.1	692.6	695.1						
G27.0	689.8	684.4	684.0						
G28.0	678.8	673.8	677.1						
G29.0	672.4	665.8	666.9						
G30.0	661.5	655.8	659.6						
G31.0	653.8	647.7	649.9						
G32.0	643.7	637.8	636.5						
G33.0	634.0	627.8	627.6						
G34.0	625.7	617.9	616.3						
G35.0	612.4	607.3	606.5						
G36.0	604.9	598.6	597.2						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	592.6	586.4	585.7						
G38.0	582.1	576.4	575.7						
G39.0	572.1	564.9	565.7						
G40.0	558.0	552.4	552.6						
G41.0	548.9	543.3	540.1						
G42.0	537.9	529.8	531.3						
G43.0	525.0	516.6	517.8						
G44.0	515.2	507.8	507.0						
G45.0	502.5	495.6	493.4						
G46.0	490.8	484.1	482.1						
G47.0	477.1	473.8	468.9						
G48.0	466.7	458.4	456.0						
G49.0	453.2	448.0	445.6						
G50.0	441.4	434.0	433.3						
G51.0	428.2	420.5	418.7						
G52.0	415.3	408.3	406.6						
G53.0	403.2	397.5	394.3						
G54.0	390.7	383.3	381.8						
G55.0	379.4	371.3	368.6						
G56.0	364.4	357.0	354.1						
G57.0	351.5	345.6	342.5						
G58.0	339.3	331.5	329.8						
G59.0	326.2	319.3	315.3						
G60.0	313.8	307.0	303.0						
G61.0	299.7	294.0	290.3						
G62.0	287.6	280.0	275.5						
G63.0	274.5	266.8	263.6						
G64.0	260.8	253.2	250.9						
G65.0	248.4	241.8	237.7						
G66.0	235.8	228.3	225.2						
G67.0	222.5	215.0	211.7						
G68.0	211.1	201.7	199.4						
G69.0	197.3	189.6	186.6						
G70.0	184.9	177.0	173.6						
G71.0	173.4	165.6	161.8						
G72.0	160.3	152.3	149.5						
G73.0	149.0	141.0	137.8						

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.935 m
 Humidity:
 Inspector:

