



71902
LED Linear Vaportight



RoHS

0-10V Dimmable



QPL ID #
PG9Z3AYR

	Model:	71902
OVERALL LAMP PARAMETERS	Input Voltage	120-277 VAC 60HZ
	Input Current	.34A Max @ 120V; 0.20A Max @ 277V
	Input Power	40W
	Power Factor	PF>0.98
	Luminance	5,303 LM
	Luminous Efficiency	129 LM/W
	CRI	>83
	Beam Angle	H: 109° V: 136°
	SDCM	<7
	UGR	<19
LED DRIVER	Brand	Arcata 2835
	Output Voltage	12-24 VDC
	Output Current	1.2A
	Driver Efficiency	88%
LED	LED Manufacturer	Edison
	LED Type	2835 SMD
	LED Quantity	238 PCS
	LED Efficacy	140 LM/W
	Color Temperature	4000K
	Output Current	50mA Max; 37.5mA Applied
LIFESPAN & ENVIRONMENT	Lifespan	50,000+ Hrs.
	Warranty	5 Years
	IP Rating	IP21 Dry Locations
	Operating Temperature	-20°C---+40°C
	Storage Temperature, Humidity	-40°C---+80°C , 10---90% RH
SAFETY/EMC	Safety Norms	UL1598, UL8750, EN60598, EN61347-2-13, EN62031, EN62471
	Withstand Voltage	I/P-PG: 2121VDC
	Grounding Resistance	25A 100mΩ
	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547
OTHERS	Dimension	Pls refer to attached dimension drawing
	Net Weight	0.68G
	Gross Weight	0.88G
	Qty / Carton	6 PCS
	Volume	0.530m³/carton
	Housing Color	White
	Main Structure	Aluminium Frame + Polystyrene Lens

Report No.:

Test Time: 2016-12-30 16:49

Luminaire Property

Luminaire Manufacturer: Morris
Luminaire Category: LED
Lamp Catalog: 2835/ACT
Voltage: 119.5 V
Power: 41.28 W

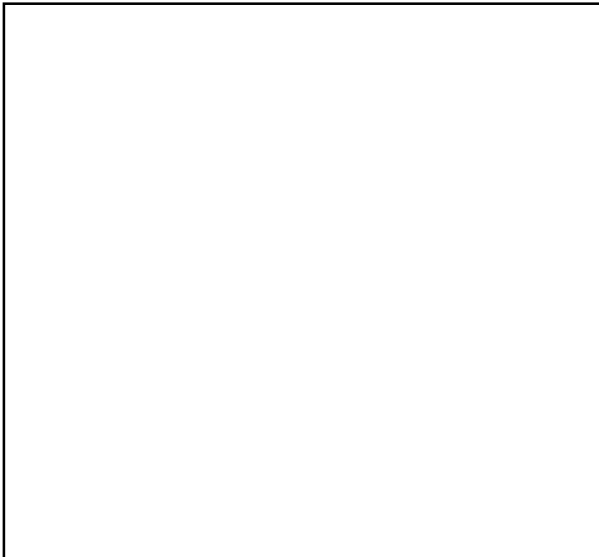
Luminaire Description: 71901, 71902
Lamp Description: 4000K/5000K
Current: 0.348 A
Power Factor: 0.992

Photometric Results

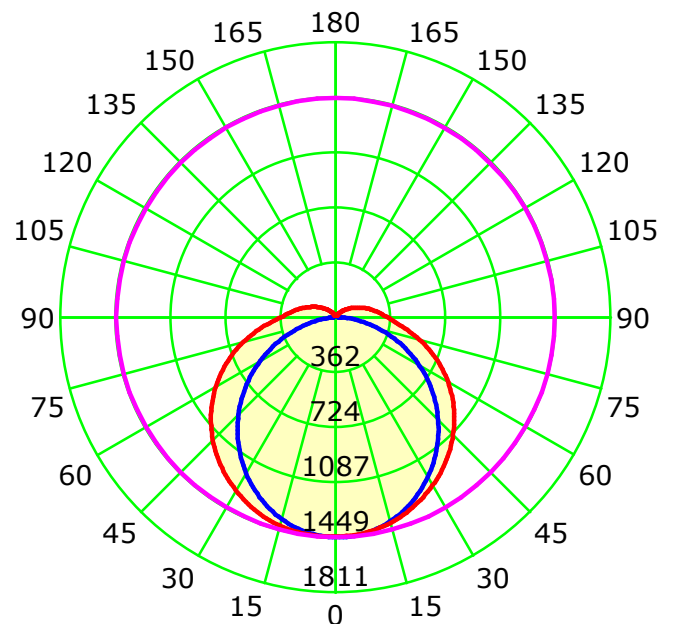
CIE Class: Direct
Measurement Flux: 5431.2 lm
Downward Ratio: 90%
Field Angle: H160.9 V237.1
Luminaire Efficacy Rating (LER): 132
Max. Intensity: 1449.45 cd

Total Rated Lamp Lumens: 5431.2 lm
Efficiency: 100%
Upward Ratio: 10%
Beam Angle: H109.7 V137.7
Central Intensity: 1448.97 cd
Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



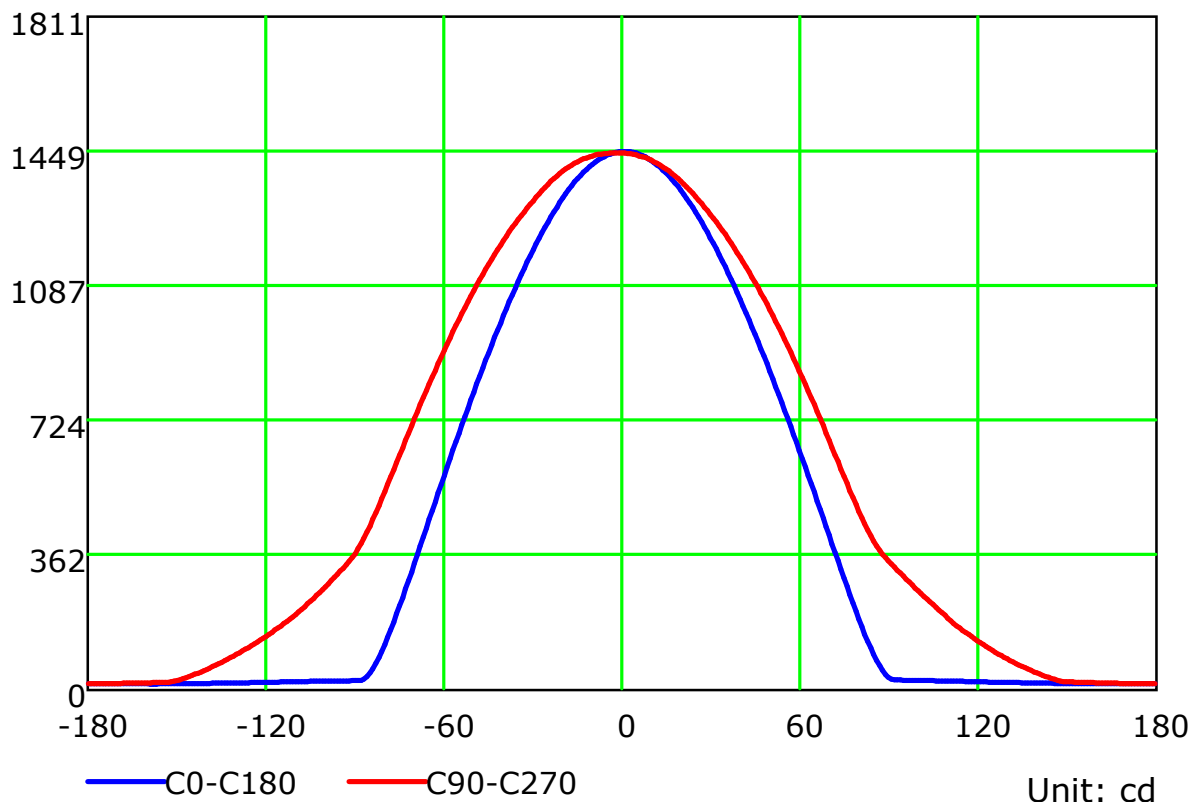
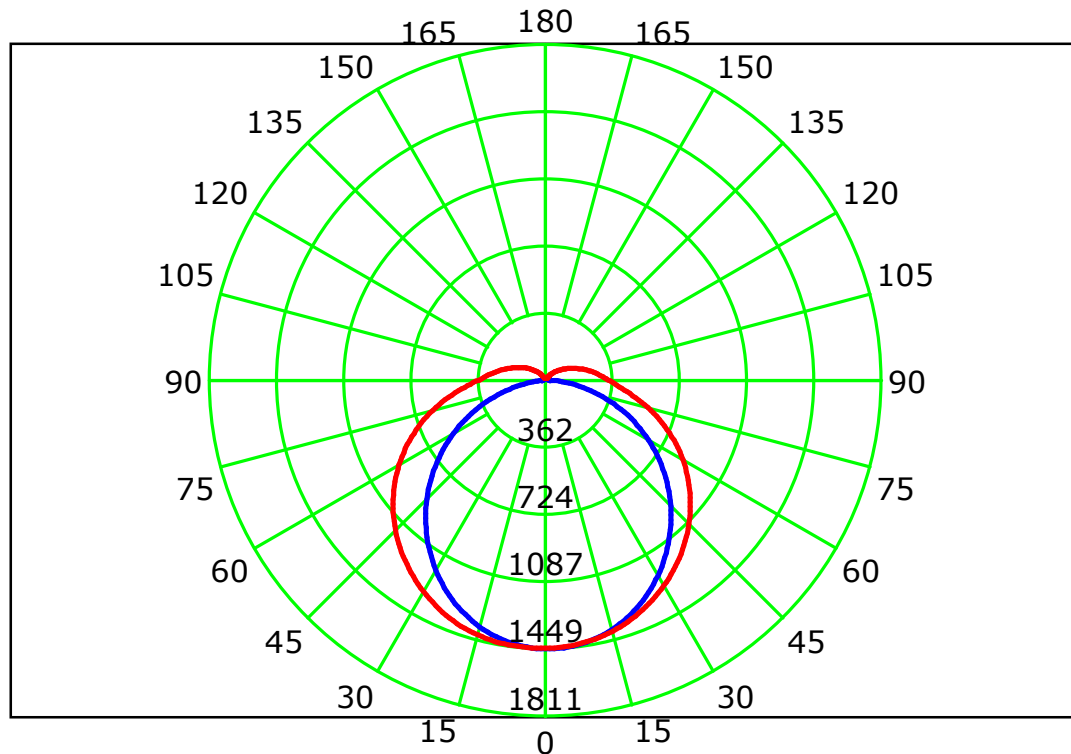
Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

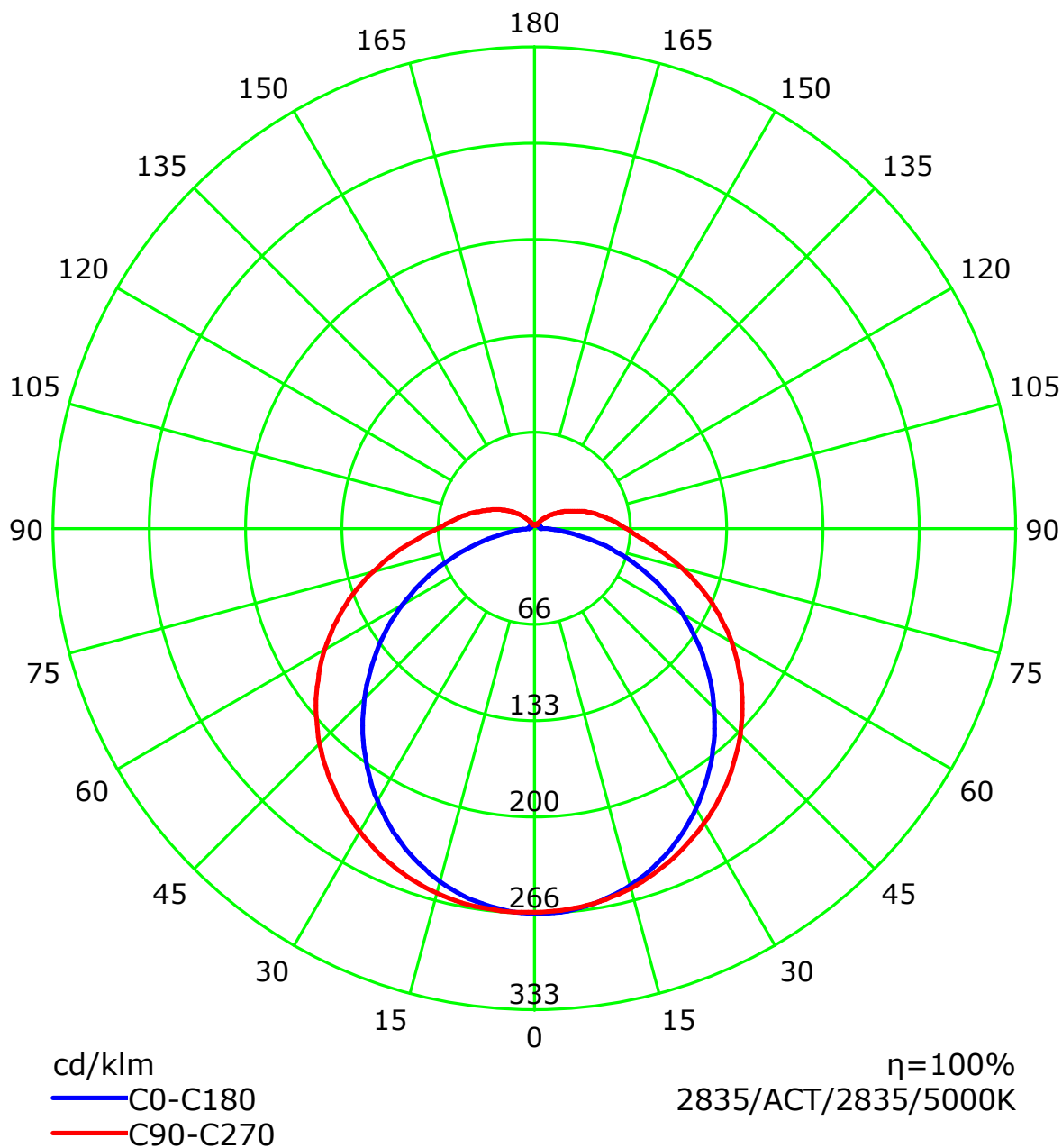
Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



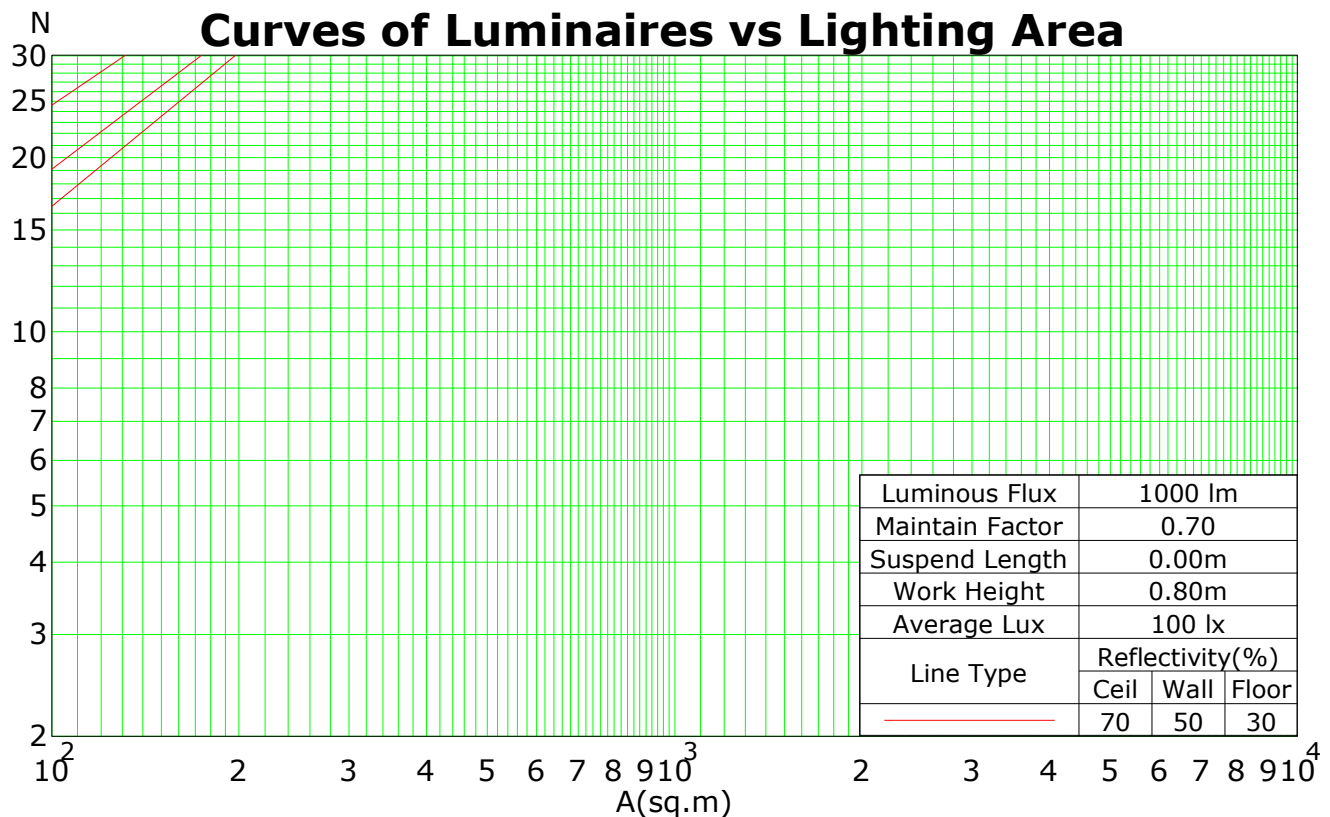
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	100	95	91	87	89	86	82	84	81	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	57
3	85	74	65	58	82	71	63	57	67	60	55	63	57	52	59	54	50	47
4	78	65	56	49	75	63	54	48	59	52	46	56	49	44	52	47	43	40
5	71	58	48	41	68	56	47	41	53	45	39	50	43	38	47	41	37	34
6	66	52	43	36	63	50	42	35	48	40	34	45	38	33	42	37	32	30
7	61	47	38	31	58	46	37	31	43	36	30	41	34	29	39	33	28	26
8	57	43	34	28	54	42	33	28	39	32	27	37	31	26	35	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	33	27	23	21
10	49	36	28	23	48	35	27	22	33	26	22	32	26	21	30	25	21	19

Spacing Criteria (0-180): 1.23

Spacing Criteria (90-270): 1.34

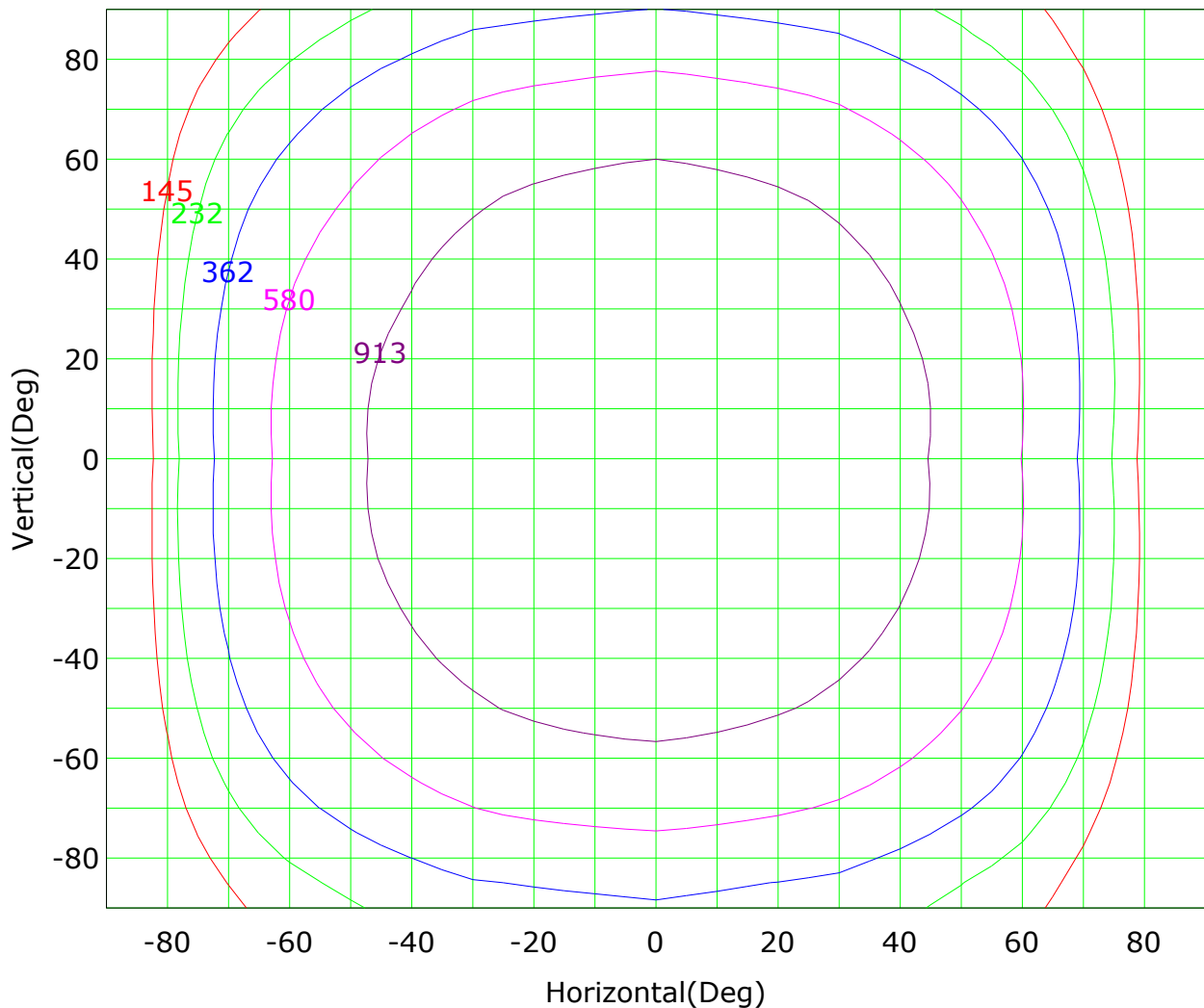
Spacing Criteria (Diagonal): 1.42



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Isocandela (rectangle)



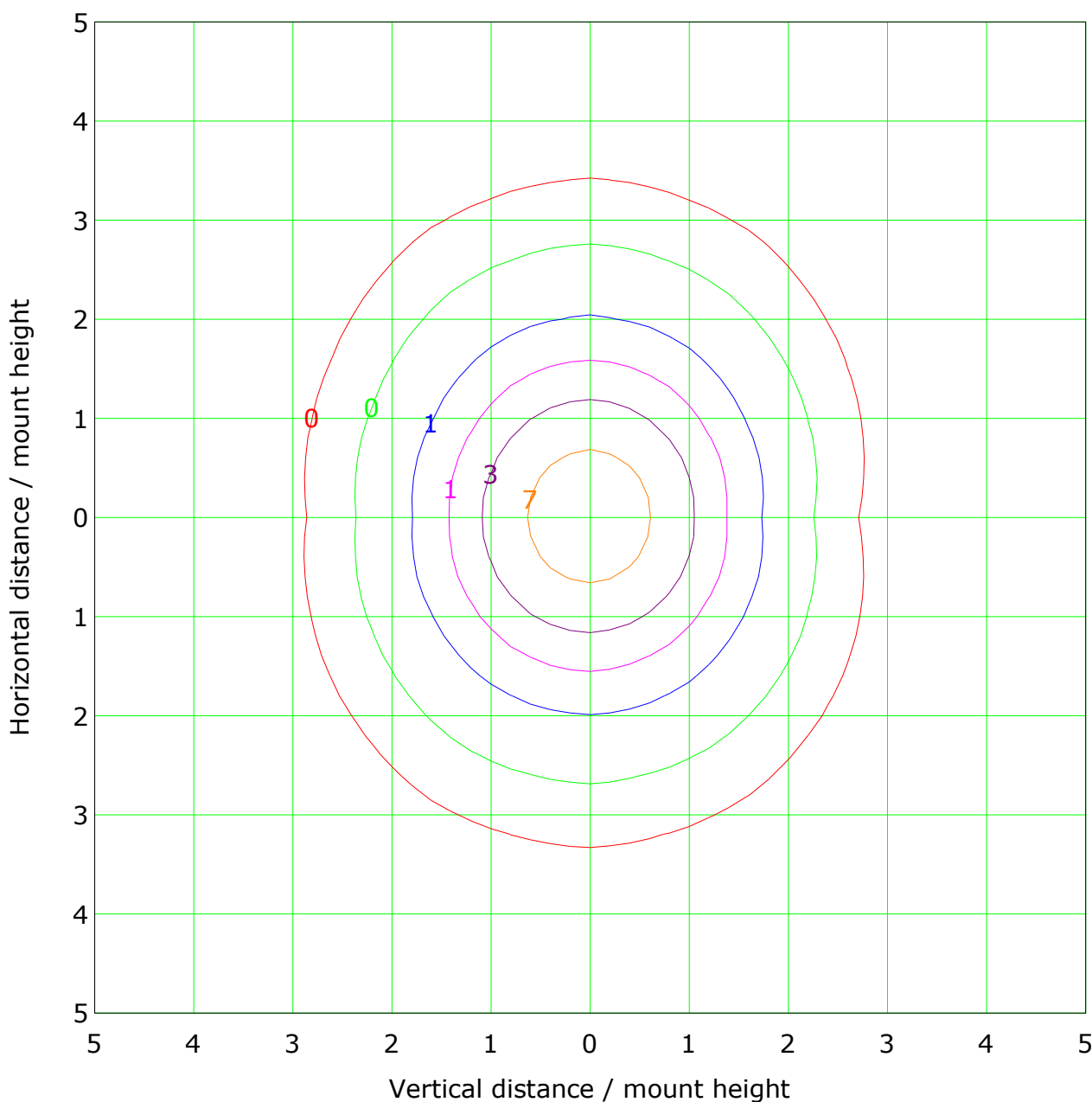
Imax (100%): 1449 cd

(10%): 145 cd	(16%): 232 cd
(25%): 362 cd	(40%): 580 cd
(63%): 913 cd	(100%): 1449 cd

C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 14.5 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.4 lx
(20%): 2.9 lx	(50%): 7.2 lx
(100%): 14.5 lx	

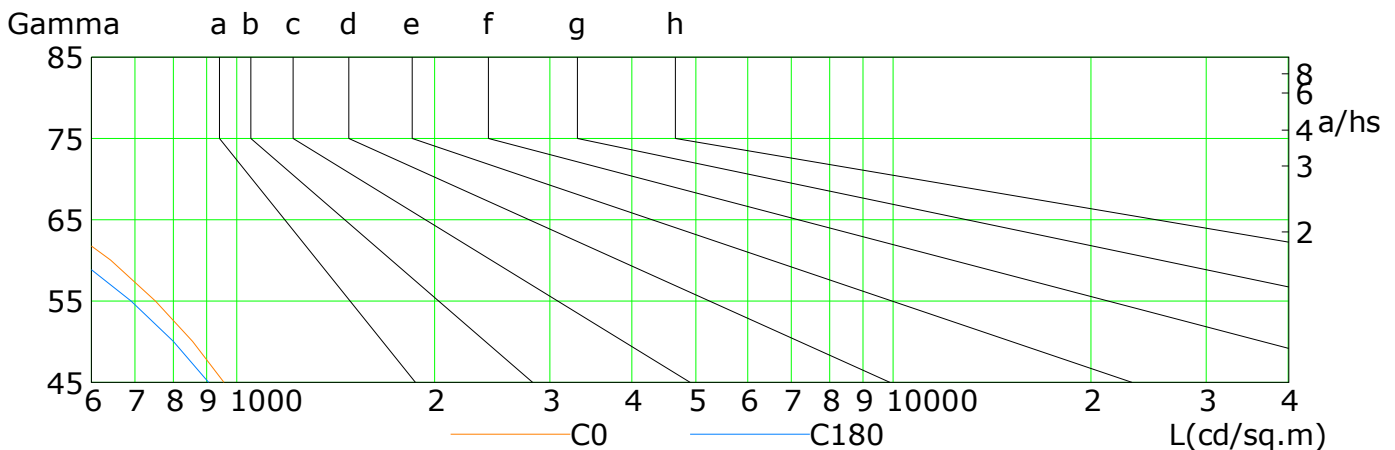
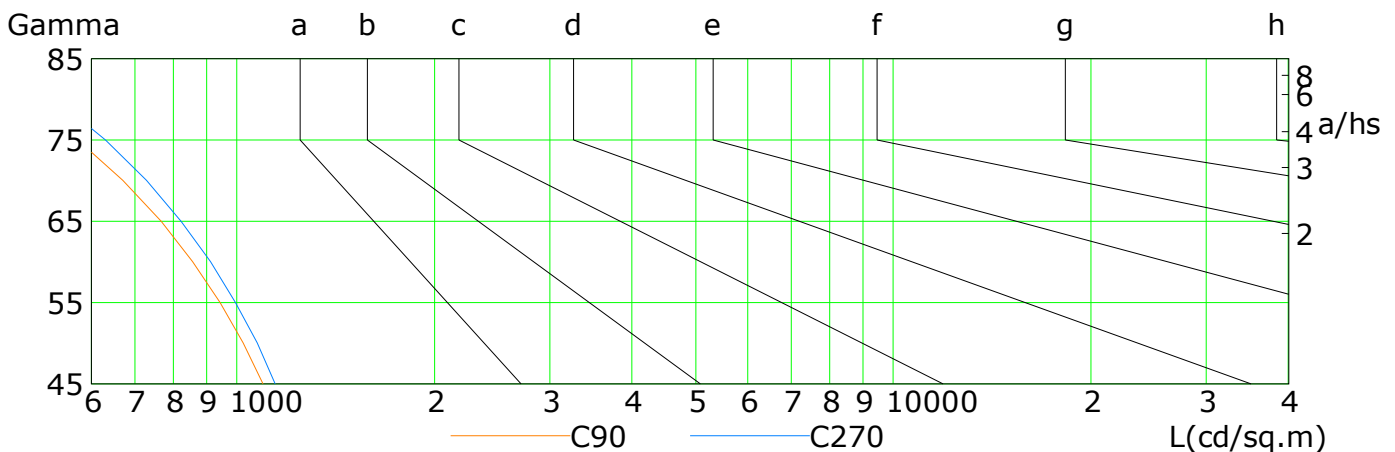
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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

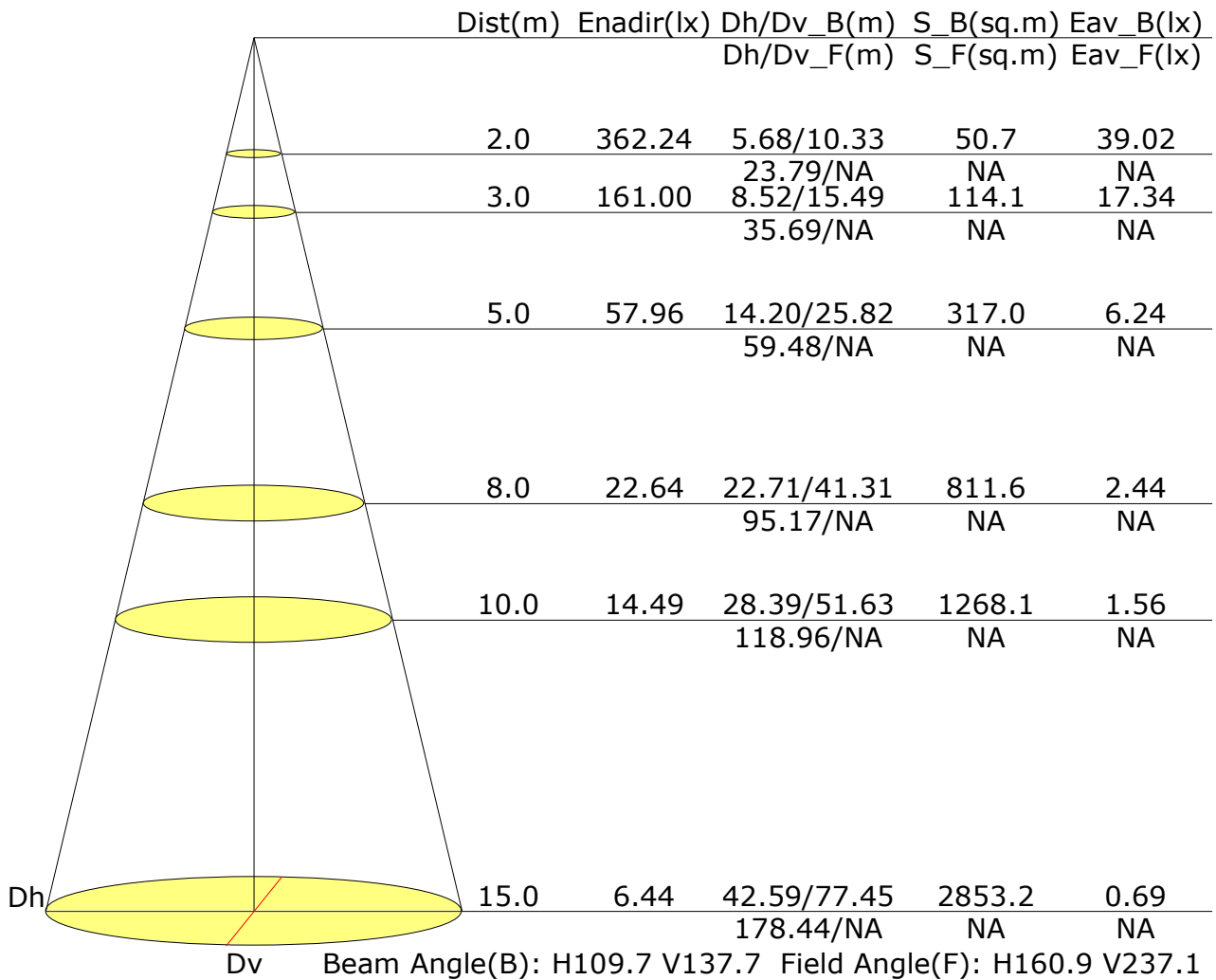


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	957	856	752	642	530	415	299	189	93
C90	1096	1022	943	857	767	671	573	480	399
C180	906	800	690	576	458	339	225	120	44
C270	1145	1074	996	913	823	729	631	532	440

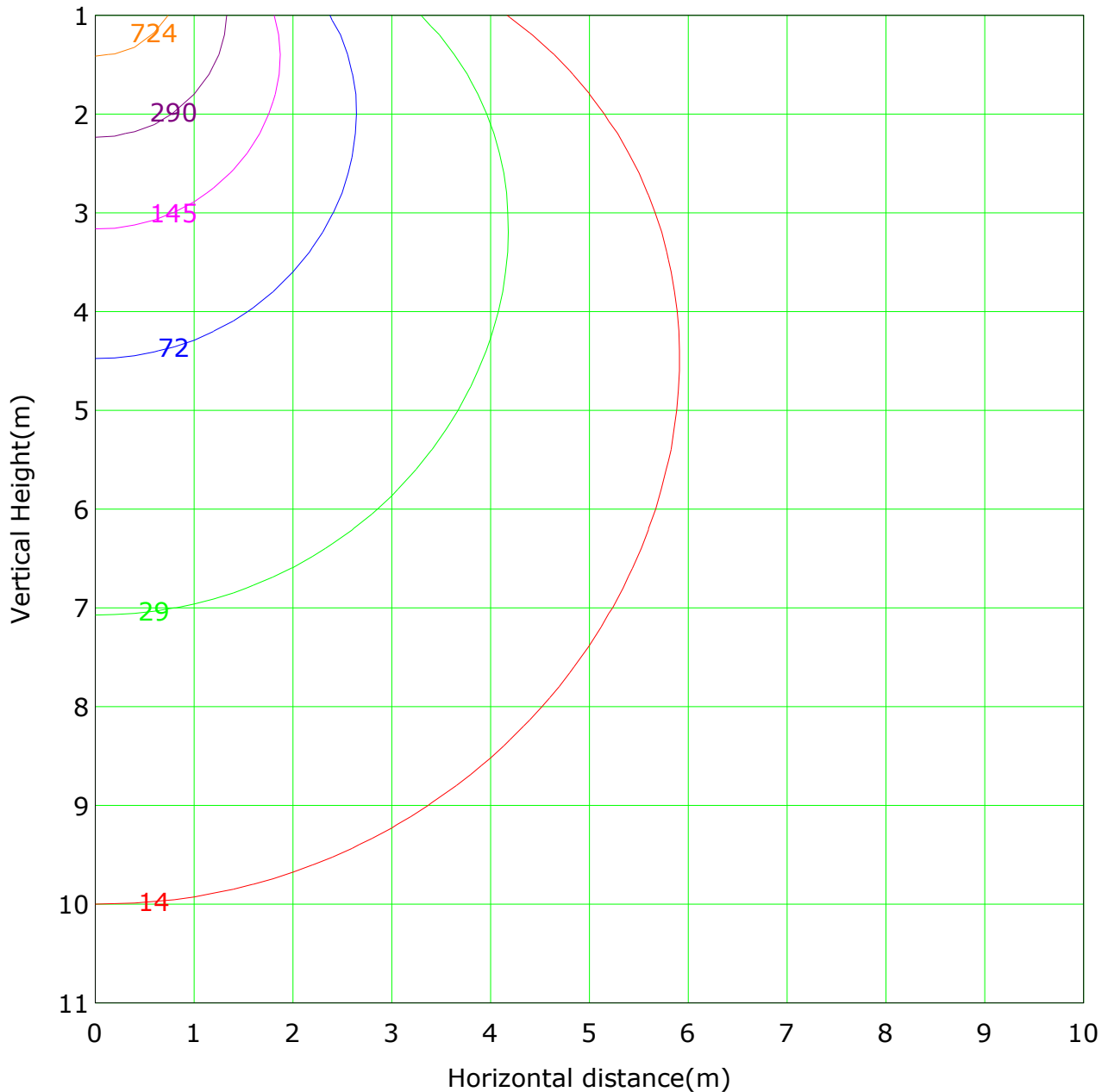
C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1449.0 lx
 (1%): 14.5 lx (2%): 29.0 lx
 (5%): 72.4 lx (10%): 144.9 lx
 (20%): 289.8 lx (50%): 724.5 lx
 (100%):1449.0 lx

Area Flux Table

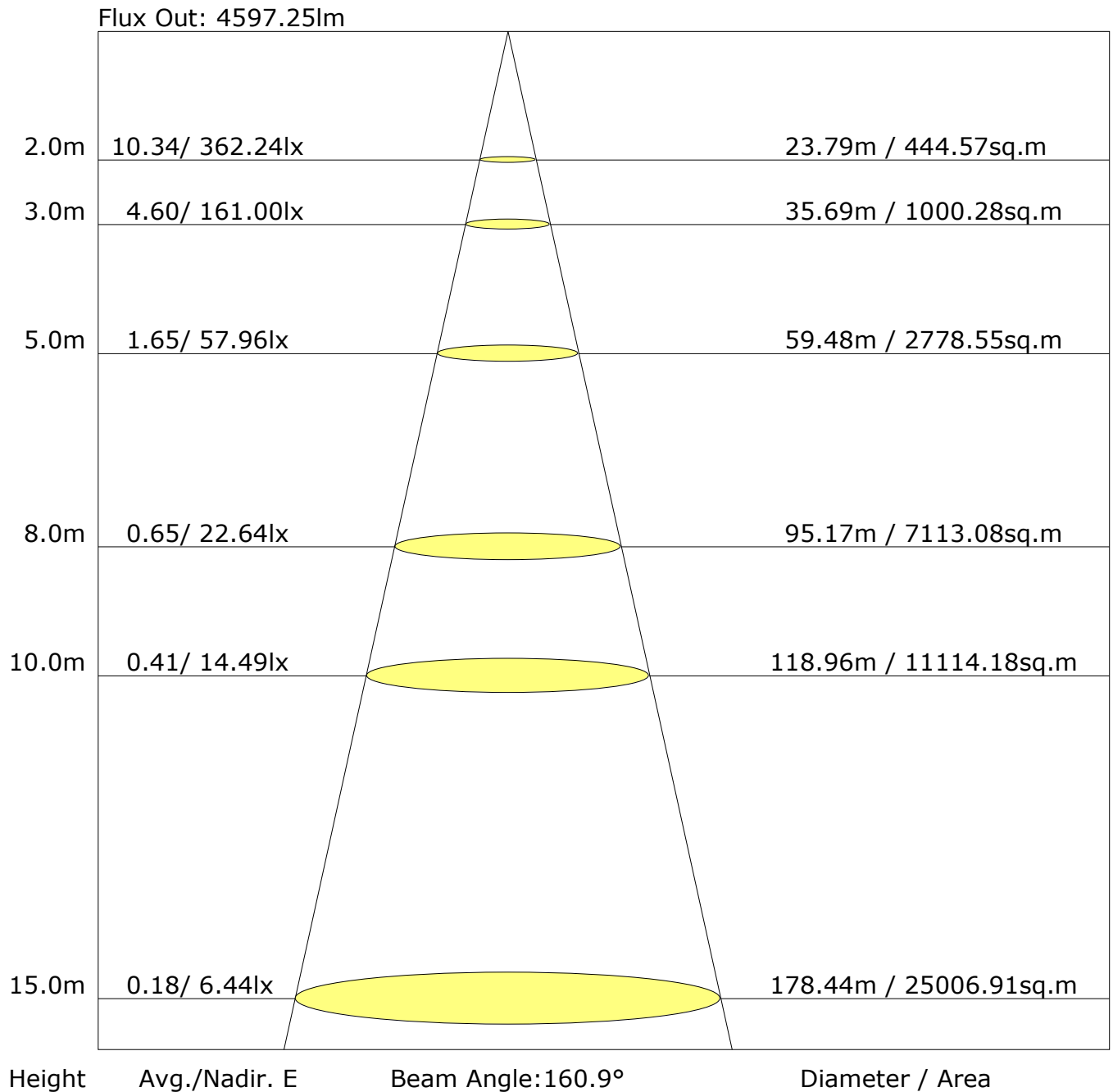
Unit: lm

		Orbit, m																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
		0.1	0.8	2.0	3.8	5.9	8.4	10.5	12.0	13.1	13.1	12.1	10.7	8.6	6.2	3.9	2.2	0.9	0.2	114.5	111.7	
		0.2	0.9	2.6	5.2	8.3	11.8	14.9	17.1	18.7	18.8	17.3	15.2	12.1	8.6	5.4	2.9	1.1	0.2	161.6	160.0	
		0.2	1.2	3.4	6.8	10.9	15.4	19.6	22.5	24.4	24.5	22.7	19.9	15.8	11.3	7.1	3.8	1.4	0.2	211.2	210.2	
		0.2	1.4	4.2	8.3	13.4	18.8	23.8	27.4	29.7	29.7	27.6	24.1	19.2	13.8	8.7	4.6	1.7	0.3	257.0	256.2	
		0.2	1.6	4.9	9.7	15.5	21.7	27.4	31.7	34.2	34.2	31.9	27.8	22.1	15.9	10.2	5.4	2.0	0.3	296.7	296.1	
		0.2	1.8	5.5	10.9	17.2	24.0	30.4	35.2	37.9	37.9	35.4	30.7	24.5	17.7	11.4	6.1	2.2	0.3	329.3	328.9	
		0.2	1.9	5.9	11.7	18.6	25.9	32.6	37.9	40.7	40.8	38.1	33.0	26.3	19.2	12.4	6.6	2.4	0.3	354.5	354.1	
		0.2	2.0	6.1	12.2	19.5	27.1	34.1	39.6	42.6	42.7	39.8	34.5	27.7	20.3	13.0	6.9	2.5	0.3	371.0	370.5	
		0.2	1.9	6.1	12.2	19.7	27.5	34.8	40.3	43.4	43.4	40.6	35.4	28.4	20.7	13.2	6.9	2.5	0.3	377.5	377.1	
		0.2	1.9	6.1	12.2	19.6	27.4	34.6	40.2	43.2	43.4	40.6	35.3	28.3	20.7	13.2	6.9	2.5	0.3	376.8	376.4	
		0.2	1.9	6.1	12.1	19.3	26.9	33.8	39.1	42.1	42.2	39.5	34.4	27.7	20.3	13.1	6.9	2.5	0.3	368.4	367.9	
		0.2	1.8	5.4	10.8	17.0	23.5	29.5	34.1	36.7	36.8	34.5	30.2	24.2	17.8	11.5	6.1	2.3	0.3	322.8	322.3	
		0.2	1.6	4.8	9.6	15.2	21.0	26.4	30.4	32.8	32.9	30.8	27.0	21.7	15.9	10.3	5.5	2.0	0.3	288.6	288.0	
		0.2	1.4	4.1	8.2	13.0	18.0	22.7	26.0	28.1	28.3	26.4	23.3	18.7	13.7	8.8	4.7	1.8	0.3	247.7	247.0	
		0.2	1.1	3.4	6.6	10.5	14.6	18.4	21.1	22.8	22.9	21.4	18.9	15.3	11.1	7.2	3.9	1.5	0.2	201.1	200.1	
		0.2	0.9	2.6	5.0	7.9	11.0	13.8	15.7	17.1	17.2	16.1	14.3	11.6	8.5	5.5	3.0	1.2	0.2	151.6	150.1	
		0.1	0.8	2.0	3.7	5.7	7.9	9.7	11.0	12.0	12.0	11.3	10.1	8.3	6.1	4.1	2.3	1.0	0.2	108.2	105.6	
Flux(T)		3.2	26.8	81.1	160.6	255.7	356.5	449.1	518.3	559.1	560.9	523.8	457.4	366.7	266.7	171.7	91.5	33.9	5.1	4888		
Flux(E)		0.0	21.3	80.0	160.6	255.7	356.5	449.1	518.3	559.1	560.9	523.8	457.4	366.7	266.7	171.7	91.1	31.0	1.5		4872	
		-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																				

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

The Average Illuminance Effective Figure



UGR Table

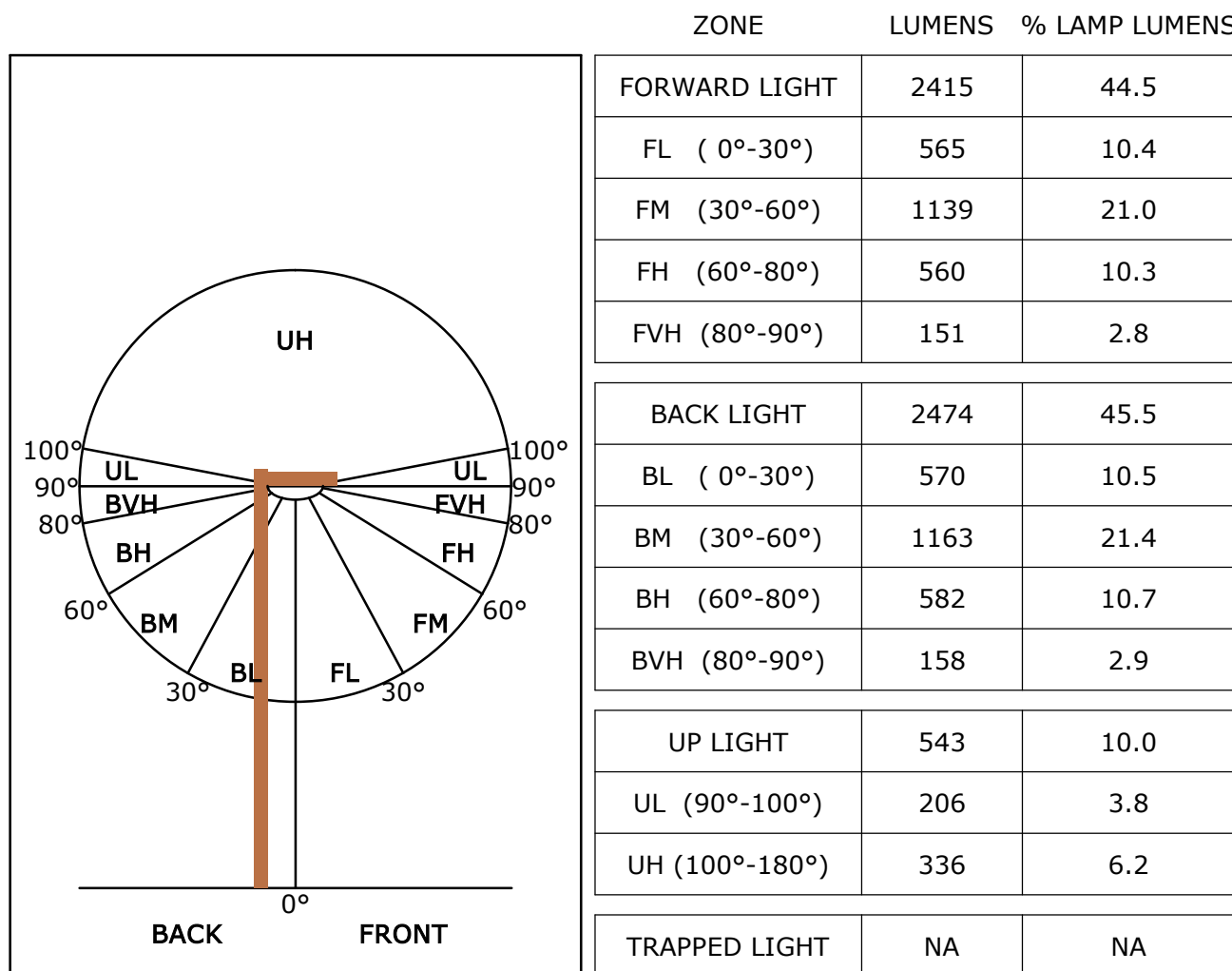
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
3H	1.\$	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.\$

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U5 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U5 G1

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
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	0.53	0.61	0.68	0.73	0.81	0.86	0.89	0.94	0.97	
	0.30		0.45	0.53	0.61	0.66	0.74	0.79	0.83	0.89	0.93	
	0.20		0.39	0.47	0.54	0.60	0.68	0.74	0.79	0.85	0.89	
0.50	0.50	0.20	0.50	0.58	0.65	0.69	0.76	0.80	0.84	0.88	0.91	
	0.30		0.44	0.51	0.58	0.63	0.70	0.75	0.79	0.84	0.88	
	0.20		0.38	0.46	0.53	0.58	0.65	0.71	0.75	0.81	0.85	
0.30	0.50	0.20	0.48	0.55	0.61	0.65	0.72	0.76	0.79	0.83	0.85	
	0.30		0.42	0.49	0.55	0.60	0.67	0.71	0.75	0.79	0.83	
	0.20		0.38	0.44	0.51	0.56	0.63	0.68	0.71	0.77	0.80	
0.00	0.00	0.00	0.34	0.41	0.47	0.51	0.58	0.62	0.65	0.70	0.73	
Rating:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
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	1.00	0.86	0.74	0.65	0.53	0.45	0.39	0.31	0.26	
	0.30		0.83	0.74	0.64	0.58	0.48	0.41	0.36	0.29	0.25	
	0.20		0.71	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.23	
0.50	0.50	0.20	0.94	0.81	0.69	0.61	0.50	0.45	0.37	0.29	0.24	
	0.30		0.80	0.70	0.61	0.55	0.46	0.39	0.34	0.28	0.23	
	0.20		0.69	0.62	0.55	0.50	0.42	0.36	0.32	0.26	0.22	
0.30	0.50	0.20	0.89	0.76	0.65	0.58	0.47	0.40	0.35	0.28	0.23	
	0.30		0.76	0.67	0.59	0.52	0.43	0.37	0.33	0.26	0.22	
	0.20		0.67	0.60	0.53	0.48	0.40	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.56	0.50	0.43	0.39	0.33	0.28	0.25	0.20	0.17	
Rating:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50									
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	0.26	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.32	
	0.30		0.19	0.21	0.22	0.23	0.25	0.26	0.27	0.28	0.29	
	0.20		0.14	0.16	0.17	0.18	0.20	0.22	0.23	0.24	0.26	
0.50	0.50	0.20	0.25	0.27	0.27	0.28	0.29	0.29	0.30	0.30	0.30	
	0.30		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.27	0.27	
	0.20		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.24	0.25	
0.30	0.50	0.20	0.24	0.26	0.26	0.27	0.28	0.28	0.28	0.29	0.29	
	0.30		0.18	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.26	
	0.20		0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	
0.00	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Rating:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1444.8	1.4	1.4	0.03	0.03
1.0-2.0	1444.4	4.1	5.5	0.08	0.10
2.0-3.0	1443.5	6.9	12.4	0.13	0.23
3.0-4.0	1442.3	9.7	22.1	0.18	0.41
4.0-5.0	1440.6	12.4	34.5	0.23	0.63
5.0-6.0	1438.5	15.1	49.6	0.28	0.91
6.0-7.0	1436.0	17.8	67.4	0.33	1.24
7.0-8.0	1433.0	20.5	87.9	0.38	1.62
8.0-9.0	1429.6	23.2	111.1	0.43	2.05
9.0-10.0	1425.8	25.8	136.9	0.48	2.52
10.0-11.0	1421.4	28.4	165.3	0.52	3.04
11.0-12.0	1416.7	31.0	196.3	0.57	3.61
12.0-13.0	1411.5	33.5	229.8	0.62	4.23
13.0-14.0	1405.8	36.0	265.8	0.66	4.89
14.0-15.0	1399.6	38.4	304.2	0.71	5.60
15.0-16.0	1393.1	40.8	345.0	0.75	6.35
16.0-17.0	1386.0	43.2	388.2	0.79	7.15
17.0-18.0	1378.5	45.5	433.7	0.84	7.98
18.0-19.0	1370.6	47.7	481.4	0.88	8.86
19.0-20.0	1362.3	49.9	531.2	0.92	9.78
20.0-21.0	1353.5	52.0	583.2	0.96	10.74
21.0-22.0	1344.3	54.0	637.2	0.99	11.73
22.0-23.0	1334.7	56.0	693.2	1.03	12.76
23.0-24.0	1324.8	57.9	751.2	1.07	13.83
24.0-25.0	1314.3	59.8	810.9	1.10	14.93
25.0-26.0	1303.4	61.5	872.5	1.13	16.06
26.0-27.0	1292.3	63.2	935.7	1.16	17.23
27.0-28.0	1280.8	64.9	1000.6	1.19	18.42
28.0-29.0	1268.9	66.4	1067.0	1.22	19.64
29.0-30.0	1256.6	67.9	1134.8	1.25	20.89
30.0-31.0	1244.1	69.2	1204.1	1.27	22.17
31.0-32.0	1231.3	70.6	1274.6	1.30	23.47
32.0-33.0	1218.2	71.8	1346.4	1.32	24.79
33.0-34.0	1204.9	72.9	1419.3	1.34	26.13
34.0-35.0	1191.2	74.0	1493.3	1.36	27.49
35.0-36.0	1177.2	75.0	1568.3	1.38	28.88

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	1162.9	75.9	1644.1	1.40	30.27
37.0-38.0	1148.3	76.7	1720.8	1.41	31.68
38.0-39.0	1133.5	77.4	1798.2	1.42	33.11
39.0-40.0	1118.5	78.0	1876.2	1.44	34.54
40.0-41.0	1103.1	78.6	1954.7	1.45	35.99
41.0-42.0	1087.5	79.0	2033.8	1.45	37.45
42.0-43.0	1071.7	79.4	2113.2	1.46	38.91
43.0-44.0	1055.6	79.7	2192.8	1.47	40.37
44.0-45.0	1039.1	79.9	2272.7	1.47	41.85
45.0-46.0	1022.6	80.0	2352.7	1.47	43.32
46.0-47.0	1005.8	80.0	2432.7	1.47	44.79
47.0-48.0	988.9	80.0	2512.6	1.47	46.26
48.0-49.0	971.6	79.8	2592.4	1.47	47.73
49.0-50.0	954.2	79.6	2672.0	1.46	49.20
50.0-51.0	936.7	79.3	2751.3	1.46	50.66
51.0-52.0	919.0	78.9	2830.1	1.45	52.11
52.0-53.0	900.9	78.4	2908.5	1.44	53.55
53.0-54.0	882.8	77.8	2986.3	1.43	54.98
54.0-55.0	864.4	77.2	3063.5	1.42	56.41
55.0-56.0	846.0	76.5	3140.0	1.41	57.81
56.0-57.0	827.3	75.7	3215.6	1.39	59.21
57.0-58.0	808.4	74.8	3290.4	1.38	60.58
58.0-59.0	789.3	73.8	3364.2	1.36	61.94
59.0-60.0	770.2	72.8	3436.9	1.34	63.28
60.0-61.0	750.9	71.7	3508.6	1.32	64.60
61.0-62.0	731.3	70.5	3579.1	1.30	65.90
62.0-63.0	711.7	69.2	3648.3	1.27	67.17
63.0-64.0	692.0	67.9	3716.2	1.25	68.42
64.0-65.0	672.3	66.5	3782.8	1.23	69.65
65.0-66.0	652.5	65.1	3847.9	1.20	70.85
66.0-67.0	632.4	63.6	3911.5	1.17	72.02
67.0-68.0	612.2	62.0	3973.5	1.14	73.16
68.0-69.0	592.0	60.4	4033.9	1.11	74.27
69.0-70.0	571.8	58.7	4092.6	1.08	75.35
70.0-71.0	551.6	57.0	4149.7	1.05	76.40
71.0-72.0	531.4	55.3	4204.9	1.02	77.42

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	511.1	53.4	4258.4	0.98	78.41
73.0-74.0	490.9	51.6	4310.0	0.95	79.36
74.0-75.0	470.7	49.7	4359.7	0.92	80.27
75.0-76.0	450.7	47.8	4407.6	0.88	81.15
76.0-77.0	430.8	45.9	4453.5	0.85	82.00
77.0-78.0	411.2	44.0	4497.5	0.81	82.81
78.0-79.0	391.9	42.1	4539.7	0.78	83.59
79.0-80.0	372.9	40.2	4579.9	0.74	84.33
80.0-81.0	354.3	38.3	4618.2	0.71	85.03
81.0-82.0	336.2	36.5	4654.6	0.67	85.70
82.0-83.0	318.7	34.7	4689.3	0.64	86.34
83.0-84.0	301.9	32.9	4722.2	0.61	86.95
84.0-85.0	286.1	31.2	4753.4	0.57	87.52
85.0-86.0	271.3	29.7	4783.1	0.55	88.07
86.0-87.0	257.6	28.2	4811.3	0.52	88.59
87.0-88.0	245.5	26.9	4838.2	0.50	89.08
88.0-89.0	234.8	25.7	4863.9	0.47	89.56
89.0-90.0	225.5	24.7	4888.6	0.46	90.01
90.0-91.0	217.5	23.9	4912.5	0.44	90.45
91.0-92.0	210.4	23.1	4935.6	0.42	90.87
92.0-93.0	203.9	22.3	4957.9	0.41	91.29
93.0-94.0	197.7	21.6	4979.5	0.40	91.68
94.0-95.0	191.6	20.9	5000.5	0.39	92.07
95.0-96.0	185.6	20.3	5020.7	0.37	92.44
96.0-97.0	179.8	19.6	5040.3	0.36	92.80
97.0-98.0	174.0	18.9	5059.3	0.35	93.15
98.0-99.0	168.3	18.3	5077.5	0.34	93.49
99.0-100.0	162.8	17.6	5095.1	0.32	93.81
100.0-101.0	157.5	17.0	5112.1	0.31	94.12
101.0-102.0	152.2	16.4	5128.5	0.30	94.43
102.0-103.0	147.0	15.7	5144.2	0.29	94.72
103.0-104.0	141.7	15.1	5159.3	0.28	94.99
104.0-105.0	136.1	14.4	5173.8	0.27	95.26
105.0-106.0	130.4	13.8	5187.5	0.25	95.51
106.0-107.0	124.8	13.1	5200.7	0.24	95.76
107.0-108.0	119.3	12.5	5213.1	0.23	95.99

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	114.1	11.9	5225.0	0.22	96.20
109.0-110.0	109.2	11.3	5236.3	0.21	96.41
110.0-111.0	104.7	10.8	5247.1	0.20	96.61
111.0-112.0	100.7	10.3	5257.3	0.19	96.80
112.0-113.0	97.0	9.8	5267.2	0.18	96.98
113.0-114.0	93.5	9.4	5276.6	0.17	97.15
114.0-115.0	89.9	9.0	5285.5	0.17	97.32
115.0-116.0	86.5	8.6	5294.1	0.16	97.48
116.0-117.0	83.1	8.2	5302.3	0.15	97.63
117.0-118.0	79.9	7.8	5310.0	0.14	97.77
118.0-119.0	76.6	7.4	5317.4	0.14	97.91
119.0-120.0	73.5	7.0	5324.4	0.13	98.03
120.0-121.0	70.4	6.7	5331.1	0.12	98.16
121.0-122.0	67.5	6.3	5337.4	0.12	98.27
122.0-123.0	64.5	6.0	5343.4	0.11	98.38
123.0-124.0	61.7	5.6	5349.0	0.10	98.49
124.0-125.0	59.0	5.3	5354.3	0.10	98.58
125.0-126.0	56.3	5.0	5359.4	0.09	98.68
126.0-127.0	53.7	4.7	5364.1	0.09	98.76
127.0-128.0	51.2	4.5	5368.6	0.08	98.85
128.0-129.0	48.8	4.2	5372.7	0.08	98.92
129.0-130.0	46.4	3.9	5376.7	0.07	99.00
130.0-131.0	44.2	3.7	5380.4	0.07	99.06
131.0-132.0	42.1	3.5	5383.8	0.06	99.13
132.0-133.0	40.1	3.2	5387.1	0.06	99.19
133.0-134.0	38.2	3.0	5390.1	0.06	99.24
134.0-135.0	36.3	2.8	5392.9	0.05	99.30
135.0-136.0	34.5	2.7	5395.6	0.05	99.34
136.0-137.0	32.8	2.5	5398.1	0.05	99.39
137.0-138.0	31.1	2.3	5400.4	0.04	99.43
138.0-139.0	29.5	2.1	5402.5	0.04	99.47
139.0-140.0	28.0	2.0	5404.5	0.04	99.51
140.0-141.0	26.5	1.9	5406.4	0.03	99.54
141.0-142.0	25.1	1.7	5408.1	0.03	99.57
142.0-143.0	23.8	1.6	5409.7	0.03	99.60
143.0-144.0	22.5	1.5	5411.1	0.03	99.63

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	21.3	1.4	5412.5	0.03	99.66
145.0-146.0	20.3	1.3	5413.8	0.02	99.68
146.0-147.0	19.4	1.2	5414.9	0.02	99.70
147.0-148.0	18.6	1.1	5416.0	0.02	99.72
148.0-149.0	17.9	1.0	5417.0	0.02	99.74
149.0-150.0	17.4	1.0	5418.0	0.02	99.76
150.0-151.0	17.1	0.9	5418.9	0.02	99.77
151.0-152.0	16.7	0.9	5419.8	0.02	99.79
152.0-153.0	16.5	0.8	5420.6	0.02	99.81
153.0-154.0	16.3	0.8	5421.4	0.01	99.82
154.0-155.0	16.1	0.8	5422.2	0.01	99.83
155.0-156.0	16.0	0.7	5422.9	0.01	99.85
156.0-157.0	15.8	0.7	5423.6	0.01	99.86
157.0-158.0	15.7	0.7	5424.3	0.01	99.87
158.0-159.0	15.6	0.6	5424.9	0.01	99.88
159.0-160.0	15.5	0.6	5425.5	0.01	99.90
160.0-161.0	15.4	0.6	5426.1	0.01	99.91
161.0-162.0	15.3	0.5	5426.6	0.01	99.92
162.0-163.0	15.3	0.5	5427.1	0.01	99.92
163.0-164.0	15.2	0.5	5427.6	0.01	99.93
164.0-165.0	15.1	0.4	5428.0	0.01	99.94
165.0-166.0	15.0	0.4	5428.4	0.01	99.95
166.0-167.0	15.0	0.4	5428.8	0.01	99.96
167.0-168.0	14.9	0.4	5429.2	0.01	99.96
168.0-169.0	14.8	0.3	5429.5	0.01	99.97
169.0-170.0	14.8	0.3	5429.8	0.01	99.97
170.0-171.0	14.7	0.3	5430.1	0.00	99.98
171.0-172.0	14.7	0.2	5430.3	0.00	99.98
172.0-173.0	14.6	0.2	5430.5	0.00	99.99
173.0-174.0	14.6	0.2	5430.7	0.00	99.99
174.0-175.0	14.6	0.2	5430.8	0.00	99.99
175.0-176.0	14.6	0.1	5431.0	0.00	100.00
176.0-177.0	14.5	0.1	5431.1	0.00	100.00
177.0-178.0	14.5	0.1	5431.1	0.00	100.00
178.0-179.0	14.5	0.0	5431.2	0.00	100.00
179.0-180.0	14.5	0.0	5431.2	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	1449.0	1445.9	1444.7	1444.9	1443.0	1441.8	1449.0	1445.9	1444.7	1444.9
G1.0	1449.4	1445.9	1444.4	1444.3	1442.3	1441.0	1448.5	1445.3	1444.7	1445.3
G2.0	1449.0	1445.4	1443.7	1443.5	1441.2	1439.9	1447.0	1444.4	1444.4	1445.5
G3.0	1447.9	1444.3	1442.9	1442.6	1439.9	1438.3	1445.1	1443.0	1443.6	1445.2
G4.0	1446.6	1442.8	1441.5	1440.9	1438.2	1435.9	1442.5	1441.1	1442.8	1444.8
G5.0	1444.3	1440.7	1439.8	1439.4	1436.2	1433.4	1439.2	1438.4	1441.3	1444.3
G6.0	1441.6	1438.3	1437.8	1437.3	1433.7	1430.0	1435.4	1435.5	1439.7	1443.2
G7.0	1438.3	1435.2	1435.4	1435.1	1430.7	1426.4	1431.3	1432.1	1437.8	1442.1
G8.0	1434.2	1431.7	1432.6	1432.3	1427.3	1422.2	1426.3	1428.0	1435.5	1440.8
G9.0	1429.9	1427.8	1429.2	1428.9	1423.8	1417.3	1421.0	1423.8	1433.1	1439.3
G10.0	1424.9	1423.3	1425.6	1425.4	1419.5	1412.2	1414.7	1418.8	1430.1	1437.1
G11.0	1419.1	1418.3	1421.2	1421.3	1415.0	1406.4	1408.2	1413.6	1426.6	1434.8
G12.0	1413.1	1412.9	1416.8	1417.1	1409.9	1400.5	1400.9	1407.6	1422.9	1432.1
G13.0	1406.5	1406.8	1411.8	1412.6	1404.4	1393.6	1393.4	1401.2	1418.8	1428.8
G14.0	1399.3	1400.4	1406.7	1407.6	1398.6	1386.4	1384.9	1394.6	1413.8	1425.4
G15.0	1391.5	1393.5	1400.8	1402.1	1392.5	1378.6	1375.9	1387.2	1409.0	1421.4
G16.0	1383.2	1385.8	1394.7	1396.2	1386.0	1370.6	1366.8	1379.6	1403.4	1417.2
G17.0	1374.1	1377.9	1387.9	1389.8	1378.8	1361.7	1357.2	1371.3	1397.7	1412.5
G18.0	1364.8	1369.5	1381.0	1383.2	1371.5	1353.0	1346.1	1362.5	1391.4	1407.3
G19.0	1355.1	1360.8	1373.8	1376.4	1363.8	1343.3	1335.3	1353.6	1384.8	1401.9
G20.0	1344.8	1351.7	1366.1	1369.1	1355.7	1333.3	1323.6	1343.7	1377.6	1396.0
G21.0	1333.7	1341.5	1358.0	1361.1	1346.6	1323.0	1311.7	1334.2	1370.3	1389.6
G22.0	1322.5	1331.5	1349.1	1353.2	1337.9	1312.0	1299.2	1323.1	1362.3	1383.1
G23.0	1311.0	1321.0	1340.3	1344.7	1328.7	1300.8	1286.6	1312.5	1354.3	1376.0
G24.0	1298.7	1310.2	1331.2	1336.0	1318.6	1289.2	1272.9	1301.3	1345.4	1368.8
G25.0	1286.1	1298.4	1321.1	1327.0	1308.6	1277.3	1259.5	1288.9	1336.2	1360.8
G26.0	1273.1	1286.6	1311.0	1317.7	1298.1	1264.8	1245.0	1277.0	1327.0	1352.8
G27.0	1259.6	1274.9	1300.9	1308.0	1287.6	1252.0	1230.1	1264.5	1317.0	1344.0
G28.0	1245.3	1262.4	1290.0	1299.0	1276.2	1238.9	1215.1	1251.7	1306.9	1335.1
G29.0	1230.9	1249.1	1279.4	1289.2	1264.9	1225.5	1199.7	1238.5	1296.4	1325.6
G30.0	1216.1	1235.9	1267.9	1278.9	1253.5	1211.1	1184.3	1224.1	1285.7	1316.3
G31.0	1201.3	1222.1	1257.1	1269.1	1242.0	1197.5	1167.4	1210.3	1274.2	1306.6
G32.0	1185.8	1208.1	1245.3	1258.1	1230.2	1182.9	1151.1	1195.6	1262.4	1296.7
G33.0	1170.1	1194.1	1233.6	1247.7	1218.1	1168.1	1134.1	1181.0	1250.5	1287.0
G34.0	1153.9	1179.2	1221.9	1236.1	1205.8	1152.9	1116.9	1166.2	1238.7	1276.7
G35.0	1137.4	1164.8	1209.7	1225.2	1193.0	1138.1	1098.7	1150.6	1226.3	1265.8
G36.0	1120.3	1149.0	1197.0	1213.4	1180.0	1121.7	1081.1	1134.9	1214.1	1255.6

C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	1103.7	1133.8	1184.3	1201.4	1167.2	1105.5	1062.4	1118.6	1201.2	1244.3
G38.0	1085.8	1117.5	1171.0	1188.8	1153.4	1088.4	1044.1	1103.0	1188.4	1233.0
G39.0	1068.4	1101.7	1157.9	1176.8	1140.0	1072.5	1025.3	1086.0	1175.6	1221.5
G40.0	1050.4	1085.2	1144.0	1163.9	1126.1	1055.6	1006.5	1069.5	1162.1	1208.9
G41.0	1032.4	1068.5	1130.3	1151.0	1111.9	1038.4	986.1	1052.3	1148.0	1196.9
G42.0	1013.8	1051.5	1116.2	1137.6	1097.8	1021.1	966.9	1034.6	1134.5	1184.6
G43.0	994.9	1034.6	1101.8	1124.0	1083.0	1004.0	947.4	1017.1	1120.2	1171.4
G44.0	975.7	1016.8	1087.1	1110.2	1068.0	985.6	926.7	999.6	1106.1	1158.6
G45.0	956.7	999.9	1072.5	1096.0	1052.7	967.6	905.7	981.0	1091.1	1145.1
G46.0	937.0	981.8	1057.2	1082.1	1038.0	950.1	885.5	962.5	1076.4	1131.4
G47.0	917.9	964.5	1041.9	1067.7	1022.3	932.0	864.6	944.1	1060.9	1117.3
G48.0	897.3	946.5	1026.2	1052.9	1006.4	913.8	843.3	925.8	1046.3	1103.5
G49.0	877.0	928.9	1010.5	1037.8	990.4	896.2	821.4	906.8	1029.8	1088.7
G50.0	856.1	909.7	994.4	1022.5	974.2	877.1	800.3	888.5	1014.3	1074.3
G51.0	836.4	892.1	979.0	1007.5	958.0	859.2	778.7	869.5	998.3	1058.9
G52.0	814.9	873.5	962.5	991.1	941.3	839.9	757.1	850.1	981.9	1044.0
G53.0	794.7	854.6	946.1	975.7	924.8	821.1	733.8	831.1	965.6	1027.9
G54.0	772.9	835.6	929.2	959.3	907.2	801.8	711.9	812.1	948.9	1012.4
G55.0	751.7	817.4	912.5	942.7	890.4	782.9	689.7	792.5	931.4	995.9
G56.0	730.1	797.2	895.2	925.9	872.9	763.5	667.5	773.8	914.6	980.6
G57.0	708.8	778.3	877.7	909.3	855.7	744.0	644.2	753.2	897.1	963.7
G58.0	686.2	759.3	860.1	891.6	837.5	724.6	621.3	733.5	879.7	946.9
G59.0	664.6	739.3	842.2	874.6	820.3	704.7	598.2	714.0	861.8	929.5
G60.0	642.0	719.7	824.3	857.4	801.9	684.7	575.5	694.0	844.4	912.9
G61.0	620.5	700.4	806.9	839.5	784.1	665.1	551.2	673.5	826.3	894.2
G62.0	597.5	680.5	788.2	821.0	765.6	645.2	528.2	653.8	807.6	876.8
G63.0	576.0	660.6	769.3	803.2	746.7	625.1	504.5	633.5	789.5	859.2
G64.0	552.4	641.2	750.8	784.5	727.8	604.7	481.2	613.6	771.2	841.1
G65.0	529.8	621.0	732.7	766.6	709.7	585.3	457.6	593.2	752.0	822.7
G66.0	506.8	600.8	713.8	747.7	690.7	565.2	434.8	573.9	733.6	804.5
G67.0	483.7	580.6	694.3	728.8	671.6	544.9	410.1	552.3	714.6	785.9
G68.0	460.5	560.9	674.8	709.6	653.4	524.8	386.4	532.5	695.6	766.7
G69.0	437.4	540.7	656.0	690.1	633.3	504.6	363.3	511.8	675.6	748.5
G70.0	414.6	521.0	637.1	670.5	615.0	484.9	338.7	492.0	656.7	728.9
G71.0	391.4	500.2	618.1	651.7	595.4	464.8	315.7	471.2	637.5	709.8
G72.0	369.0	480.9	598.4	631.5	575.8	444.7	292.2	451.9	617.8	689.7
G73.0	345.3	460.4	578.7	612.7	556.2	425.1	269.4	431.8	598.7	670.3

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	322.8	440.8	559.6	593.1	537.7	405.4	246.6	412.4	578.5	650.5
G75.0	299.5	420.7	539.6	573.3	517.6	385.6	224.6	392.3	559.8	630.6
G76.0	277.3	402.0	520.4	554.5	499.1	367.3	201.9	372.8	539.8	610.3
G77.0	255.0	381.8	501.4	534.8	480.0	347.9	180.9	353.6	519.8	591.0
G78.0	232.9	362.7	482.5	516.4	461.9	329.2	159.9	334.7	500.8	571.8
G79.0	210.3	343.9	464.0	497.7	443.3	310.6	139.7	316.1	481.7	552.2
G80.0	189.0	325.8	445.9	479.7	425.6	293.5	119.8	297.8	463.0	532.2
G81.0	168.3	307.3	428.0	462.2	408.3	275.6	101.8	280.2	444.3	512.8
G82.0	148.2	289.5	410.8	445.3	391.7	258.8	84.6	263.0	425.9	493.8
G83.0	129.1	272.1	394.3	428.7	375.5	242.1	69.3	246.7	408.0	475.5
G84.0	110.5	255.4	378.4	413.5	360.9	227.0	55.0	230.1	391.0	457.4
G85.0	93.4	240.0	363.1	399.0	346.2	212.8	43.7	215.4	374.4	439.8
G86.0	77.5	225.4	349.0	386.0	333.4	199.8	33.7	201.7	358.7	422.8
G87.0	62.9	211.6	336.0	374.2	321.8	187.7	27.5	189.6	344.1	407.0
G88.0	50.5	199.7	324.9	363.9	311.8	177.9	23.7	178.5	330.1	391.8
G89.0	39.6	188.8	314.8	354.6	303.0	169.3	22.8	169.6	317.9	378.0
G90.0	32.0	179.7	306.3	346.0	295.2	162.4	22.6	162.0	306.9	364.8
G91.0	26.9	172.0	298.0	337.4	286.9	155.6	22.5	155.7	297.6	353.9
G92.0	24.7	165.3	290.1	329.0	279.2	149.4	22.4	149.0	289.2	343.6
G93.0	24.4	158.6	282.0	320.5	271.5	142.9	22.3	142.9	281.1	334.8
G94.0	24.3	152.1	274.3	312.5	263.8	137.0	22.2	136.7	272.6	326.1
G95.0	24.1	146.0	266.5	304.3	256.1	131.0	22.1	131.1	264.9	317.6
G96.0	24.0	139.9	259.1	296.4	248.6	125.1	22.0	125.4	257.0	308.9
G97.0	23.8	134.0	251.3	288.5	241.3	119.8	21.9	119.8	249.6	300.6
G98.0	23.7	128.3	243.8	280.4	233.9	114.4	21.8	114.3	242.0	292.2
G99.0	23.5	122.6	236.4	272.6	226.5	109.2	21.6	109.4	234.6	284.0
G100.0	23.4	117.2	229.2	265.1	219.6	104.0	21.6	104.7	227.0	275.8
G101.0	23.2	111.8	221.9	257.2	212.6	99.0	21.4	100.4	220.1	268.1
G102.0	23.1	106.9	214.9	249.8	205.9	94.3	21.3	96.3	212.6	260.1
G103.0	22.9	101.8	207.9	242.1	198.9	89.8	21.1	92.3	205.4	252.4
G104.0	22.7	96.8	201.3	235.3	192.3	85.3	20.9	88.3	193.7	244.6
G105.0	22.5	92.3	194.4	227.9	185.8	80.9	20.8	84.3	181.5	237.1
G106.0	22.4	87.7	187.8	220.8	179.4	76.8	20.6	79.6	171.5	229.5
G107.0	22.2	83.3	181.0	213.5	168.7	72.8	20.5	74.7	163.5	221.8
G108.0	22.0	79.1	170.8	206.9	157.6	68.8	20.3	70.1	158.9	214.4
G109.0	21.8	75.1	159.1	200.0	148.7	64.6	20.1	65.8	154.2	207.2
G110.0	21.6	70.9	149.7	191.4	142.2	60.4	19.9	62.3	149.4	200.9

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	21.5	66.7	142.8	183.0	137.6	56.4	19.8	59.5	144.9	194.5
G112.0	21.3	62.0	137.8	176.6	132.8	52.7	19.6	57.0	140.2	188.2
G113.0	21.1	57.9	133.3	170.5	127.8	49.5	19.4	54.5	135.7	182.2
G114.0	20.9	54.1	128.5	164.6	122.9	46.7	19.2	52.3	130.6	176.3
G115.0	20.7	50.8	123.8	158.7	118.1	44.3	19.1	49.9	125.8	170.3
G116.0	20.5	47.9	118.8	152.8	112.9	42.0	18.9	47.5	121.3	164.7
G117.0	20.3	45.4	114.0	147.1	108.0	39.8	18.7	45.4	117.0	158.9
G118.0	20.1	43.0	109.0	141.5	103.1	37.5	18.6	43.3	112.6	153.3
G119.0	20.0	40.7	104.2	135.8	98.5	35.4	18.4	41.3	108.3	147.9
G120.0	19.8	38.4	99.2	130.2	94.1	33.2	18.2	39.3	104.2	142.7
G121.0	19.5	36.2	94.5	124.8	89.7	31.4	18.0	37.4	100.1	137.1
G122.0	19.3	34.0	90.2	119.4	85.5	29.8	17.9	35.3	96.1	132.2
G123.0	19.2	32.1	85.9	114.2	81.6	28.2	17.7	33.4	91.9	126.8
G124.0	19.0	30.4	81.8	109.1	77.6	26.5	17.6	31.6	88.1	122.0
G125.0	18.8	28.7	77.9	104.1	73.9	25.0	17.4	29.9	84.2	116.9
G126.0	18.6	27.0	74.0	99.4	70.1	23.5	17.2	28.2	80.4	112.1
G127.0	18.4	25.4	70.3	94.7	66.7	22.2	17.1	26.5	76.8	107.3
G128.0	18.3	23.9	66.7	90.1	63.1	21.1	16.9	25.0	73.1	102.5
G129.0	18.1	22.5	63.1	85.6	59.7	20.3	16.8	23.4	69.6	97.9
G130.0	17.9	21.4	59.7	81.2	56.4	19.9	16.6	22.1	66.1	93.5
G131.0	17.8	20.7	56.3	77.0	53.2	19.6	16.5	20.9	62.7	89.1
G132.0	17.6	20.2	52.9	72.9	49.9	19.4	16.4	19.8	59.4	84.8
G133.0	17.5	19.9	49.7	68.9	46.8	19.2	16.3	18.9	56.0	80.3
G134.0	17.3	19.6	46.5	65.0	43.6	18.9	16.2	18.4	52.9	76.4
G135.0	17.1	19.3	43.5	61.1	40.8	18.7	16.0	18.0	49.8	72.2
G136.0	17.0	19.1	40.5	57.3	37.9	18.4	15.9	17.7	46.8	68.3
G137.0	16.9	18.8	37.5	53.7	35.2	18.2	15.8	17.6	43.8	64.5
G138.0	16.7	18.4	34.7	50.0	32.6	18.0	15.7	17.3	40.9	60.7
G139.0	16.5	18.1	32.2	46.5	30.2	17.8	15.5	17.2	38.2	56.8
G140.0	16.4	17.9	29.7	43.2	27.8	17.6	15.4	17.0	35.7	53.3
G141.0	16.2	17.6	27.4	40.0	25.6	17.3	15.3	16.9	33.2	49.8
G142.0	16.1	17.4	25.2	36.7	23.5	17.1	15.2	16.7	30.9	46.4
G143.0	15.9	17.1	23.1	33.9	21.7	17.0	15.0	16.5	28.7	43.0
G144.0	15.9	16.9	21.3	31.1	20.2	16.8	14.9	16.4	26.5	39.8
G145.0	15.7	16.6	19.9	28.5	19.3	16.5	14.8	16.3	24.5	36.7
G146.0	15.5	16.4	19.1	25.9	18.8	16.4	14.7	16.1	22.5	33.8
G147.0	15.4	16.3	18.7	23.6	18.6	16.2	14.6	16.0	20.6	31.0

C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
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	15.3	16.1	18.5	21.6	18.5	16.0	14.4	15.9	19.2	28.4
G149.0	15.1	15.9	18.4	20.3	18.3	15.9	14.4	15.7	18.2	25.8
G150.0	15.0	15.7	18.1	19.8	18.1	15.7	14.2	15.5	17.8	23.5
G151.0	14.9	15.6	18.0	19.4	17.9	15.5	14.1	15.4	17.7	21.3
G152.0	14.7	15.4	17.8	19.2	17.8	15.4	14.1	15.3	17.5	19.5
G153.0	14.6	15.3	17.5	18.9	17.6	15.2	14.0	15.2	17.4	18.6
G154.0	14.5	15.1	17.3	18.6	17.5	15.1	13.9	15.1	17.2	18.2
G155.0	14.4	15.0	17.1	18.4	17.3	15.0	13.9	15.0	17.1	18.0
G156.0	14.3	14.9	16.9	18.1	17.1	14.8	13.8	15.0	17.0	17.8
G157.0	14.2	14.8	16.6	17.9	16.9	14.8	13.8	14.9	16.8	17.6
G158.0	14.1	14.7	16.5	17.7	16.8	14.7	13.7	14.9	16.7	17.3
G159.0	14.0	14.6	16.3	17.5	16.6	14.7	13.8	14.9	16.5	17.2
G160.0	14.0	14.6	16.2	17.2	16.5	14.7	13.9	14.8	16.4	17.0
G161.0	13.9	14.5	15.9	17.0	16.3	14.6	13.9	14.9	16.3	16.8
G162.0	13.9	14.4	15.9	16.8	16.2	14.6	14.0	14.8	16.1	16.6
G163.0	14.0	14.4	15.7	16.5	16.0	14.5	14.0	14.8	16.0	16.4
G164.0	14.0	14.4	15.6	16.3	15.9	14.4	14.1	14.8	15.9	16.2
G165.0	14.1	14.3	15.5	16.1	15.6	14.4	14.1	14.8	15.7	16.1
G166.0	14.2	14.3	15.4	15.9	15.5	14.4	14.2	14.7	15.6	15.9
G167.0	14.2	14.3	15.3	15.7	15.3	14.4	14.3	14.7	15.5	15.7
G168.0	14.3	14.3	15.1	15.5	15.1	14.4	14.4	14.7	15.3	15.6
G169.0	14.4	14.2	15.0	15.4	15.0	14.4	14.4	14.7	15.2	15.5
G170.0	14.4	14.2	14.9	15.2	14.9	14.3	14.4	14.7	15.1	15.3
G171.0	14.4	14.2	14.8	15.0	14.7	14.3	14.5	14.7	15.0	15.1
G172.0	14.5	14.2	14.6	14.9	14.6	14.4	14.6	14.7	14.9	15.1
G173.0	14.6	14.3	14.6	14.8	14.5	14.4	14.6	14.7	14.8	15.0
G174.0	14.6	14.3	14.4	14.7	14.4	14.4	14.7	14.7	14.7	14.9
G175.0	14.7	14.4	14.4	14.6	14.4	14.4	14.7	14.6	14.7	14.8
G176.0	14.7	14.4	14.4	14.6	14.4	14.4	14.7	14.6	14.6	14.8
G177.0	14.7	14.4	14.4	14.6	14.4	14.4	14.7	14.6	14.6	14.8
G178.0	14.7	14.4	14.4	14.6	14.4	14.4	14.7	14.6	14.5	14.8
G179.0	14.7	14.4	14.4	14.7	14.4	14.4	14.8	14.5	14.5	14.8
G180.0	14.7	14.4	14.4	14.7	14.4	14.4	14.7	14.4	14.4	14.7

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1443.0	1441.8	1449.0							
G1.0	1443.2	1442.1	1449.4							
G2.0	1443.2	1441.8	1449.0							
G3.0	1442.9	1440.8	1447.9							
G4.0	1442.4	1439.7	1446.6							
G5.0	1441.4	1437.8	1444.3							
G6.0	1440.1	1435.5	1441.6							
G7.0	1438.5	1432.8	1438.3							
G8.0	1436.5	1429.4	1434.2							
G9.0	1434.3	1425.5	1429.9							
G10.0	1431.7	1421.3	1424.9							
G11.0	1428.8	1416.3	1419.1							
G12.0	1425.4	1411.3	1413.1							
G13.0	1421.3	1405.4	1406.5							
G14.0	1417.2	1399.0	1399.3							
G15.0	1412.4	1392.6	1391.5							
G16.0	1407.2	1385.3	1383.2							
G17.0	1401.9	1377.8	1374.1							
G18.0	1395.8	1369.6	1364.8							
G19.0	1389.6	1361.3	1355.1							
G20.0	1382.6	1352.1	1344.8							
G21.0	1375.7	1342.5	1333.7							
G22.0	1368.0	1332.7	1322.5							
G23.0	1360.2	1322.2	1311.0							
G24.0	1351.8	1311.5	1298.7							
G25.0	1342.9	1299.7	1286.1							
G26.0	1333.9	1288.2	1273.1							
G27.0	1324.1	1276.4	1259.6							
G28.0	1314.8	1263.9	1245.3							
G29.0	1304.2	1251.2	1230.9							
G30.0	1293.8	1237.2	1216.1							
G31.0	1282.4	1223.8	1201.3							
G32.0	1271.0	1210.2	1185.8							
G33.0	1259.4	1195.6	1170.1							
G34.0	1247.7	1181.3	1153.9							
G35.0	1235.2	1165.8	1137.4							
G36.0	1223.1	1150.8	1120.3							

C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1210.4	1135.3	1103.7							
G38.0	1197.8	1119.6	1085.8							
G39.0	1185.1	1103.0	1068.4							
G40.0	1172.3	1086.6	1050.4							
G41.0	1158.1	1069.8	1032.4							
G42.0	1144.8	1052.8	1013.8							
G43.0	1130.5	1035.5	994.9							
G44.0	1116.6	1017.9	975.7							
G45.0	1101.7	1000.1	956.7							
G46.0	1087.0	982.3	937.0							
G47.0	1072.3	963.2	917.9							
G48.0	1056.9	945.1	897.3							
G49.0	1041.5	926.3	877.0							
G50.0	1025.3	907.9	856.1							
G51.0	1009.3	888.5	836.4							
G52.0	993.5	870.0	814.9							
G53.0	977.0	850.5	794.7							
G54.0	960.2	831.8	772.9							
G55.0	943.3	811.9	751.7							
G56.0	926.6	792.9	730.1							
G57.0	909.2	773.5	708.8							
G58.0	891.8	753.7	686.2							
G59.0	873.8	734.0	664.6							
G60.0	855.8	714.5	642.0							
G61.0	837.9	693.7	620.5							
G62.0	820.4	674.0	597.5							
G63.0	801.5	653.7	576.0							
G64.0	783.0	633.8	552.4							
G65.0	764.6	613.9	529.8							
G66.0	745.8	593.6	506.8							
G67.0	727.0	573.2	483.7							
G68.0	708.7	552.5	460.5							
G69.0	688.8	532.2	437.4							
G70.0	669.5	511.8	414.6							
G71.0	650.6	492.0	391.4							
G72.0	631.2	471.1	369.0							
G73.0	611.1	451.3	345.3							

C Plane (°): 0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	591.4	431.5	322.8							
G75.0	572.2	411.5	299.5							
G76.0	552.5	390.9	277.3							
G77.0	532.8	371.8	255.0							
G78.0	513.3	352.9	232.9							
G79.0	493.8	333.9	210.3							
G80.0	475.0	314.6	189.0							
G81.0	455.9	296.7	168.3							
G82.0	437.1	278.6	148.2							
G83.0	419.2	261.4	129.1							
G84.0	401.0	244.4	110.5							
G85.0	384.1	229.3	93.4							
G86.0	367.7	213.5	77.5							
G87.0	352.0	199.5	62.9							
G88.0	337.5	186.9	50.5							
G89.0	323.9	175.5	39.6							
G90.0	311.5	165.7	32.0							
G91.0	301.0	157.8	26.9							
G92.0	291.6	151.0	24.7							
G93.0	283.3	144.6	24.4							
G94.0	275.1	138.3	24.3							
G95.0	267.3	132.3	24.1							
G96.0	259.5	126.2	24.0							
G97.0	251.6	120.5	23.8							
G98.0	244.1	114.8	23.7							
G99.0	236.6	109.5	23.5							
G100.0	229.2	104.4	23.4							
G101.0	221.9	100.0	23.2							
G102.0	214.3	95.7	23.1							
G103.0	207.4	91.6	22.9							
G104.0	199.1	87.8	22.7							
G105.0	186.6	83.9	22.5							
G106.0	175.6	80.0	22.4							
G107.0	166.1	75.9	22.2							
G108.0	160.1	71.3	22.0							
G109.0	155.4	66.7	21.8							
G110.0	150.6	62.7	21.6							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	145.8	59.4	21.5							
G112.0	141.2	56.8	21.3							
G113.0	136.3	54.5	21.1							
G114.0	131.4	52.3	20.9							
G115.0	126.5	50.0	20.7							
G116.0	122.1	47.9	20.5							
G117.0	117.7	45.5	20.3							
G118.0	113.4	43.4	20.1							
G119.0	108.9	41.3	20.0							
G120.0	104.9	39.5	19.8							
G121.0	100.6	37.6	19.5							
G122.0	96.6	35.7	19.3							
G123.0	92.4	33.7	19.2							
G124.0	88.7	32.0	19.0							
G125.0	84.8	30.1	18.8							
G126.0	80.9	28.6	18.6							
G127.0	77.2	26.9	18.4							
G128.0	73.6	25.4	18.3							
G129.0	70.0	23.8	18.1							
G130.0	66.6	22.5	17.9							
G131.0	63.1	21.3	17.8							
G132.0	59.7	20.1	17.6							
G133.0	56.5	19.2	17.5							
G134.0	53.3	18.6	17.3							
G135.0	50.2	18.2	17.1							
G136.0	47.1	17.9	17.0							
G137.0	44.2	17.7	16.9							
G138.0	41.3	17.5	16.7							
G139.0	38.5	17.2	16.5							
G140.0	36.0	17.0	16.4							
G141.0	33.4	16.8	16.2							
G142.0	31.0	16.6	16.1							
G143.0	28.7	16.5	15.9							
G144.0	26.6	16.3	15.9							
G145.0	24.5	16.2	15.7							
G146.0	22.6	16.1	15.5							
G147.0	20.7	15.9	15.4							

C Plane (°): 0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 35
 Operator: R

Gamma Plane (°): 0.0-180.0: 1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	19.2	15.7	15.3							
G149.0	18.1	15.6	15.1							
G150.0	17.7	15.5	15.0							
G151.0	17.5	15.4	14.9							
G152.0	17.3	15.3	14.7							
G153.0	17.0	15.1	14.6							
G154.0	16.9	15.0	14.5							
G155.0	16.7	14.9	14.4							
G156.0	16.5	14.8	14.3							
G157.0	16.3	14.7	14.2							
G158.0	16.1	14.6	14.1							
G159.0	15.9	14.6	14.0							
G160.0	15.8	14.6	14.0							
G161.0	15.7	14.6	13.9							
G162.0	15.7	14.6	13.9							
G163.0	15.6	14.6	14.0							
G164.0	15.5	14.5	14.0							
G165.0	15.4	14.5	14.1							
G166.0	15.4	14.5	14.2							
G167.0	15.3	14.5	14.2							
G168.0	15.2	14.5	14.3							
G169.0	15.1	14.5	14.4							
G170.0	15.0	14.5	14.4							
G171.0	14.9	14.5	14.4							
G172.0	14.8	14.5	14.5							
G173.0	14.8	14.5	14.6							
G174.0	14.7	14.5	14.6							
G175.0	14.7	14.5	14.7							
G176.0	14.6	14.5	14.7							
G177.0	14.6	14.5	14.7							
G178.0	14.5	14.4	14.7							
G179.0	14.5	14.4	14.7							
G180.0	14.4	14.4	14.7							

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 35
Operator: R

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.690 m
Humidity: 45-75
Inspector: