

Report No.: 2022

Test Time: 2022-02-17 15:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: NB

Luminaire Description: MX453A-32W-4FT

Lamp Catalog: 3500k

Luminous Width (mm): 70

Voltage: 119.8 V

Power: 31.76 W

Luminous Length (mm): 1200

Luminous Height (mm): 85

Current: 0.266 A

Power Factor: 0.995

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 3967 lm

Downward Ratio: 89%

Field Angle: H149.5 V234.0

Luminaire Efficacy Rating (LER): 125

Max. Intensity: 1132.53 cd

Total Rated Lamp Lumens: 3967.0 lm

Efficiency: 100%

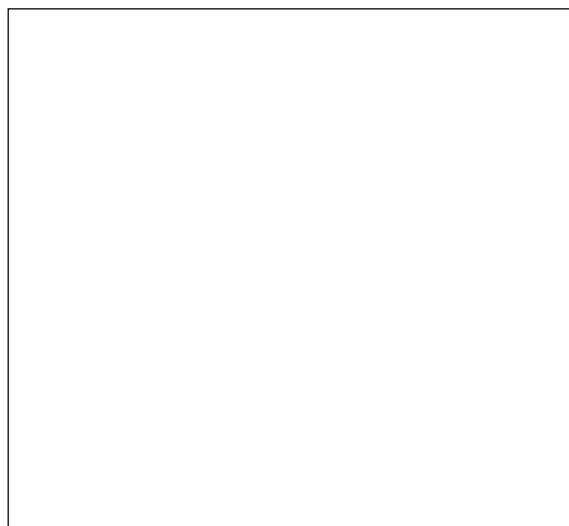
Upward Ratio: 11%

Beam Angle: H93.8 V132.3

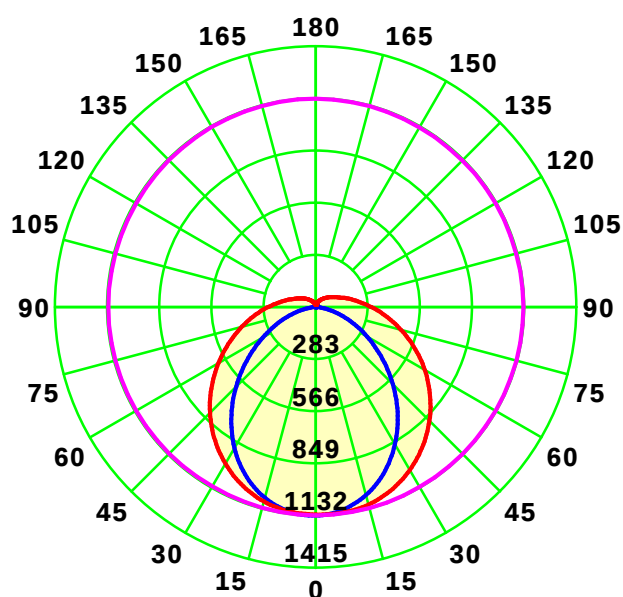
Central Intensity: 1132.21 cd

Pos of Max. Intensity: H180 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 113.0° Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°): 0.0-180.0: 1.0

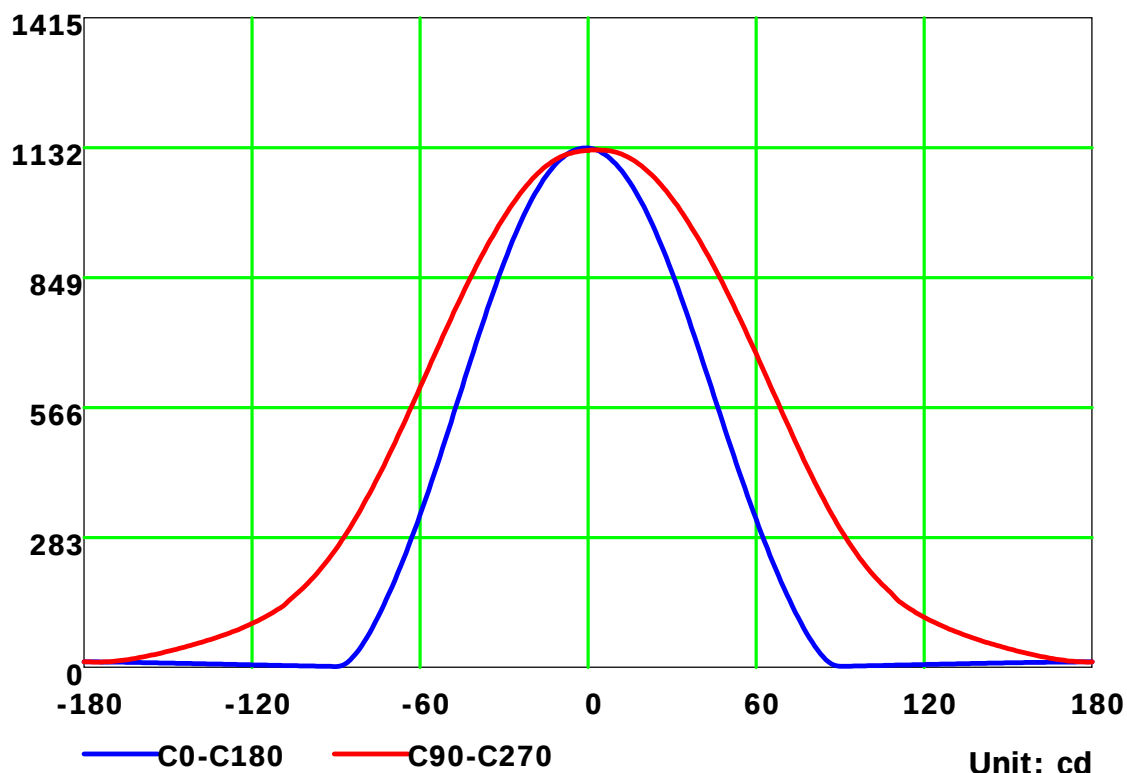
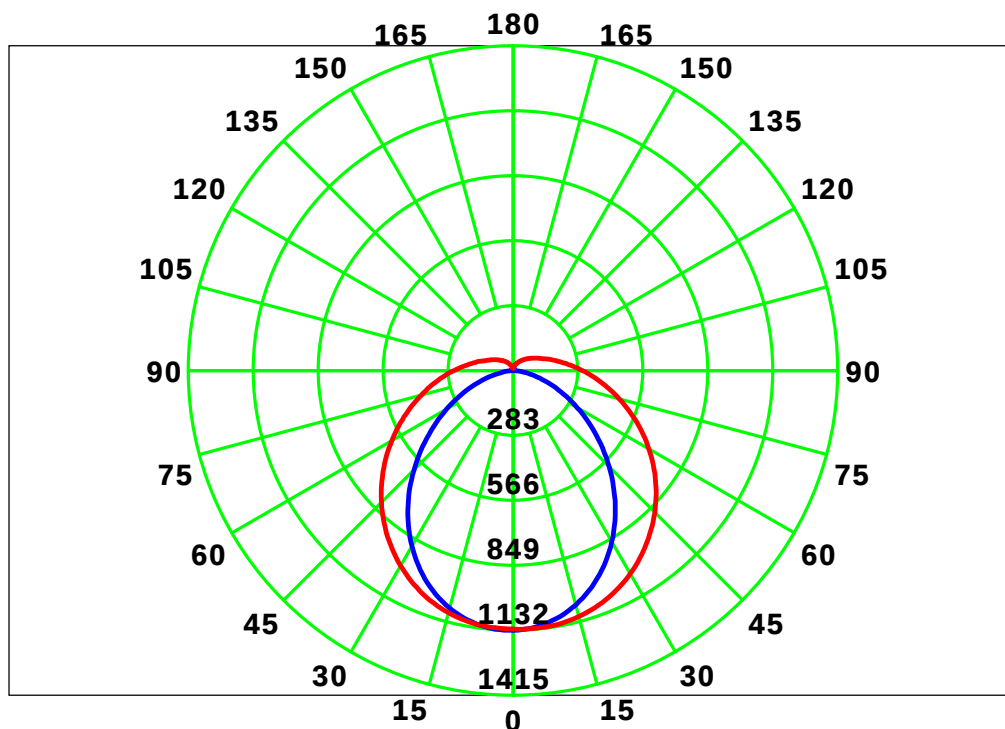
Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

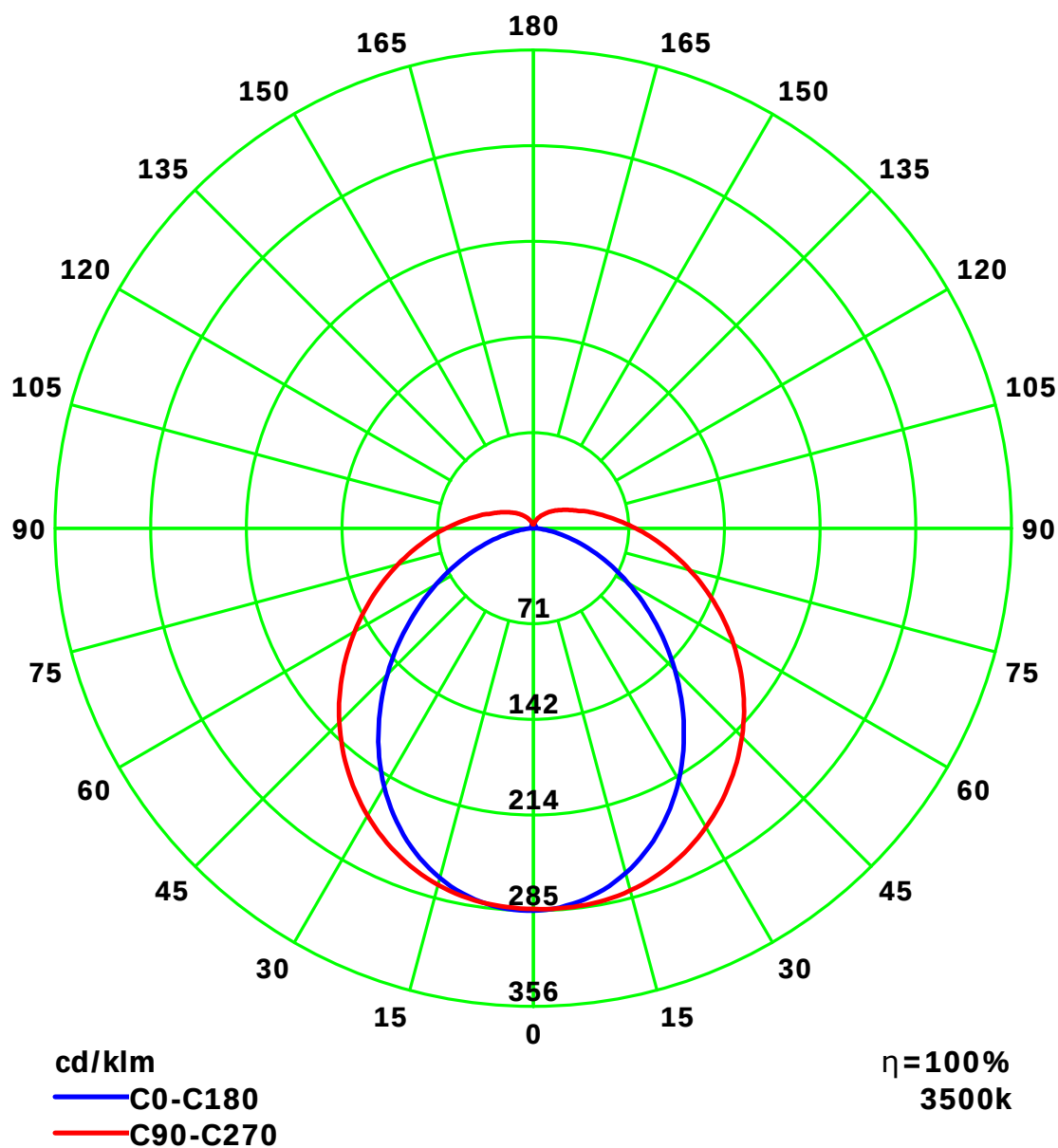
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 23
Operator: MEI

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 8.580 m
Humidity: 88
Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°): 0.0-180.0: 1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

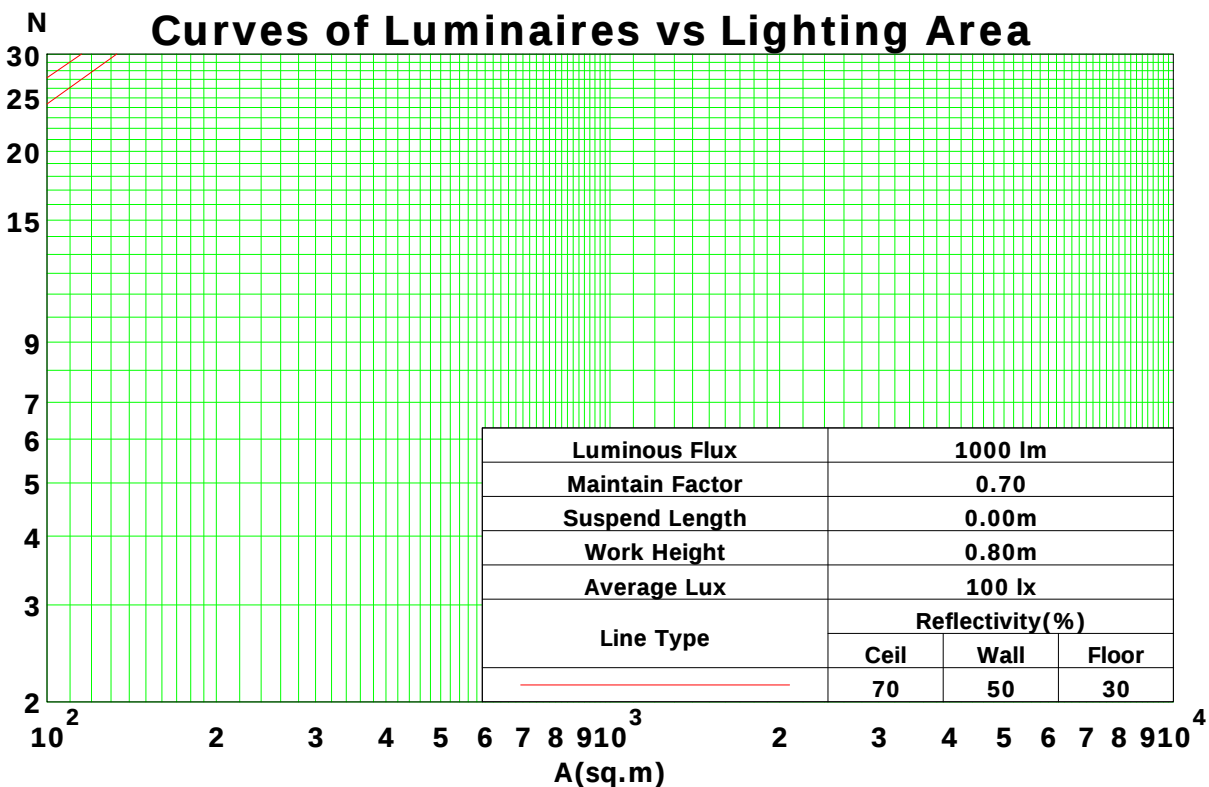
Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	99	94	89	100	95	91	87	89	85	82	83	80	77	78	75	73	70
2	94	85	78	71	90	82	75	70	77	71	66	72	67	63	67	63	60	57
3	86	74	66	59	82	72	64	57	67	61	55	63	57	53	59	54	50	48
4	78	66	56	49	75	64	55	48	60	52	47	56	50	45	52	47	43	40
5	72	59	49	42	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	43	37	64	51	42	36	48	41	35	45	39	34	43	37	33	30
7	61	48	39	32	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	31	27	36	30	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

Spacing Criteria (0-180): 1.16

Spacing Criteria (90-270): 1.32

Spacing Criteria (Diagonal): 1.36



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

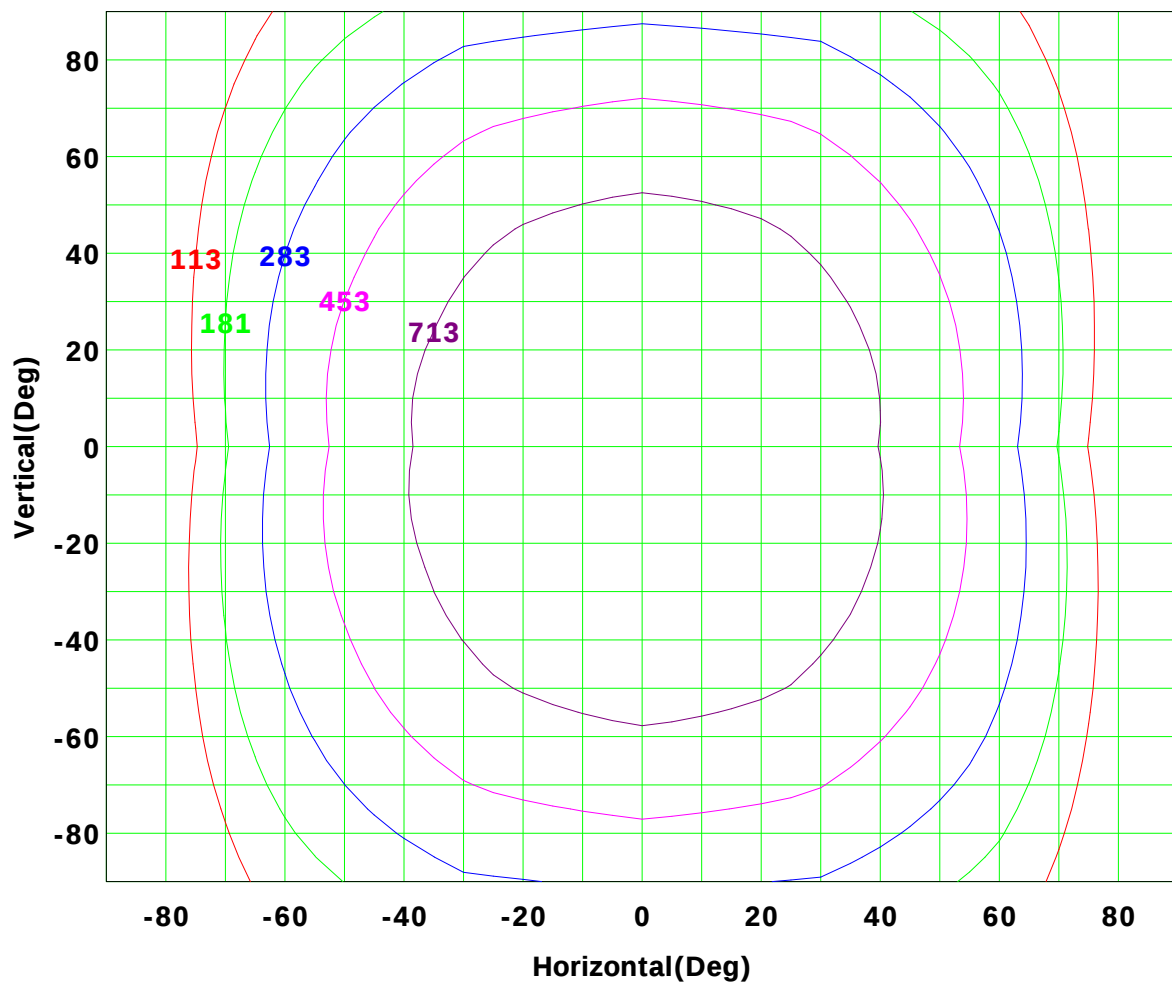
Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Isocandela (rectangle)



I_{max} (100%): 1133 cd

— (10%): 113 cd	— (16%): 181 cd
— (25%): 283 cd	— (40%): 453 cd
— (63%): 713 cd	— (100%): 1133 cd

C Plane (°): 0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°): 0.0-180.0: 1.0

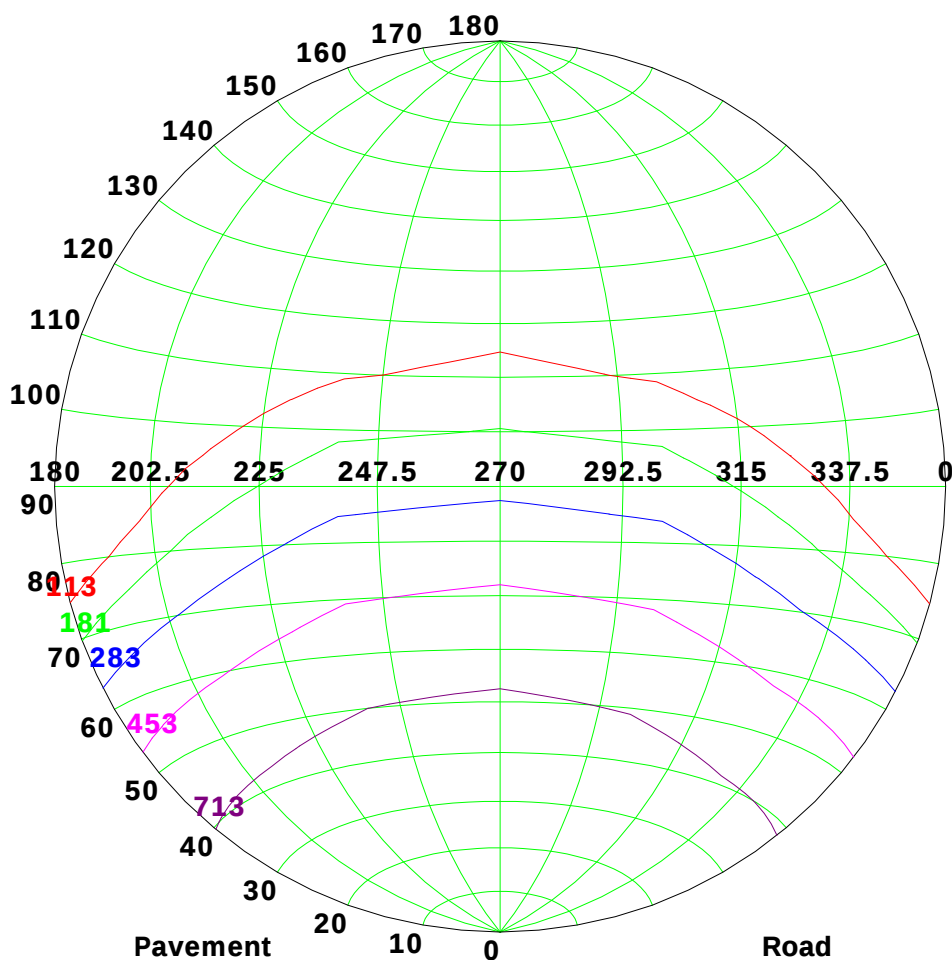
Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Isocandela (sphere)



I_{max} (100%): 1133 cd

(10%): 113 cd	(16%): 181 cd
(25%): 283 cd	(40%): 453 cd
(63%): 713 cd	(100%): 1133 cd

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

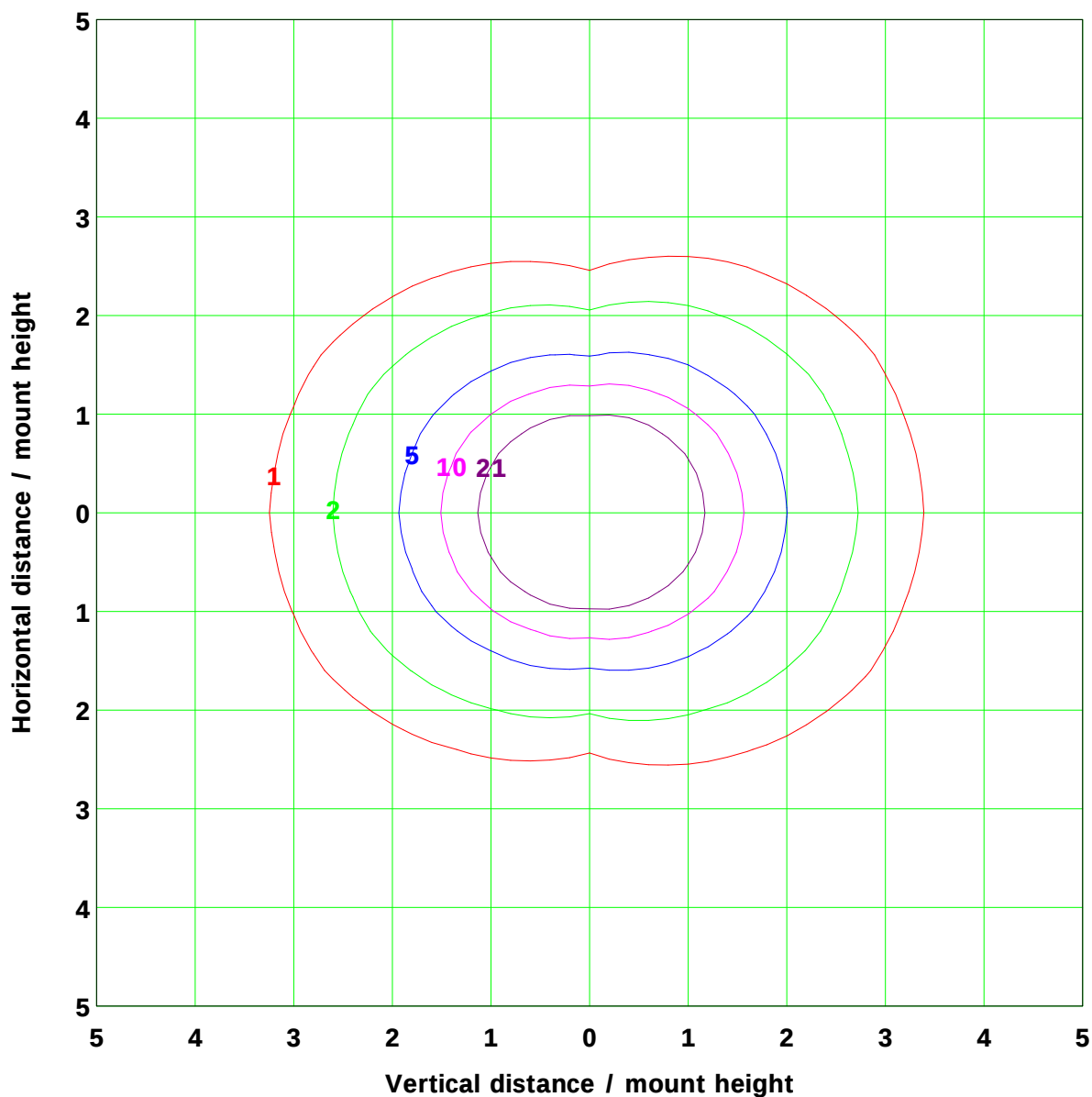
Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

IsoLux Plot



Mounting Height: 3.3m Max Lux(100%): 104.0 lx

(1%): 1.0 lx	(2%): 2.1 lx
(5%): 5.2 lx	(10%): 10.4 lx
(20%): 20.8 lx	

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

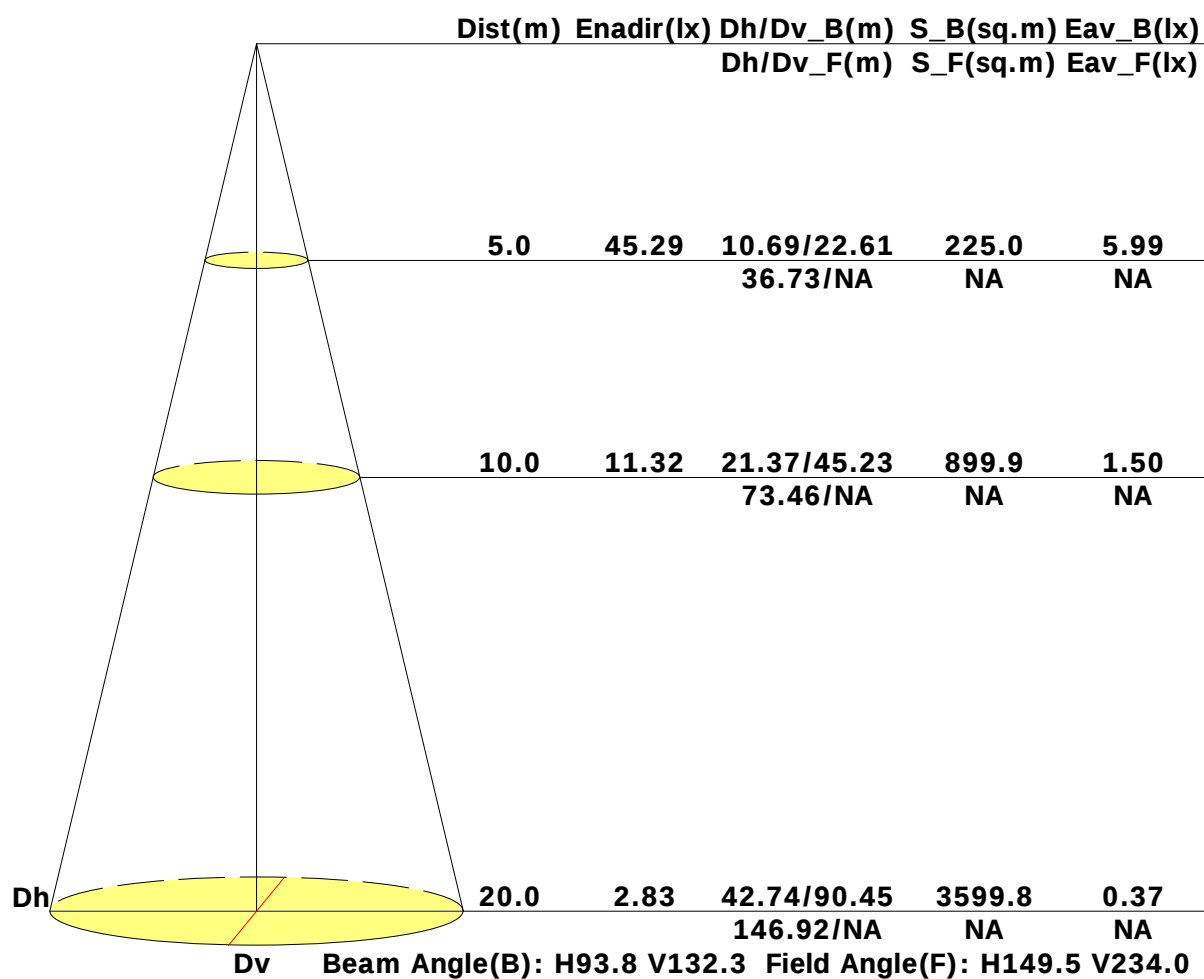
Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

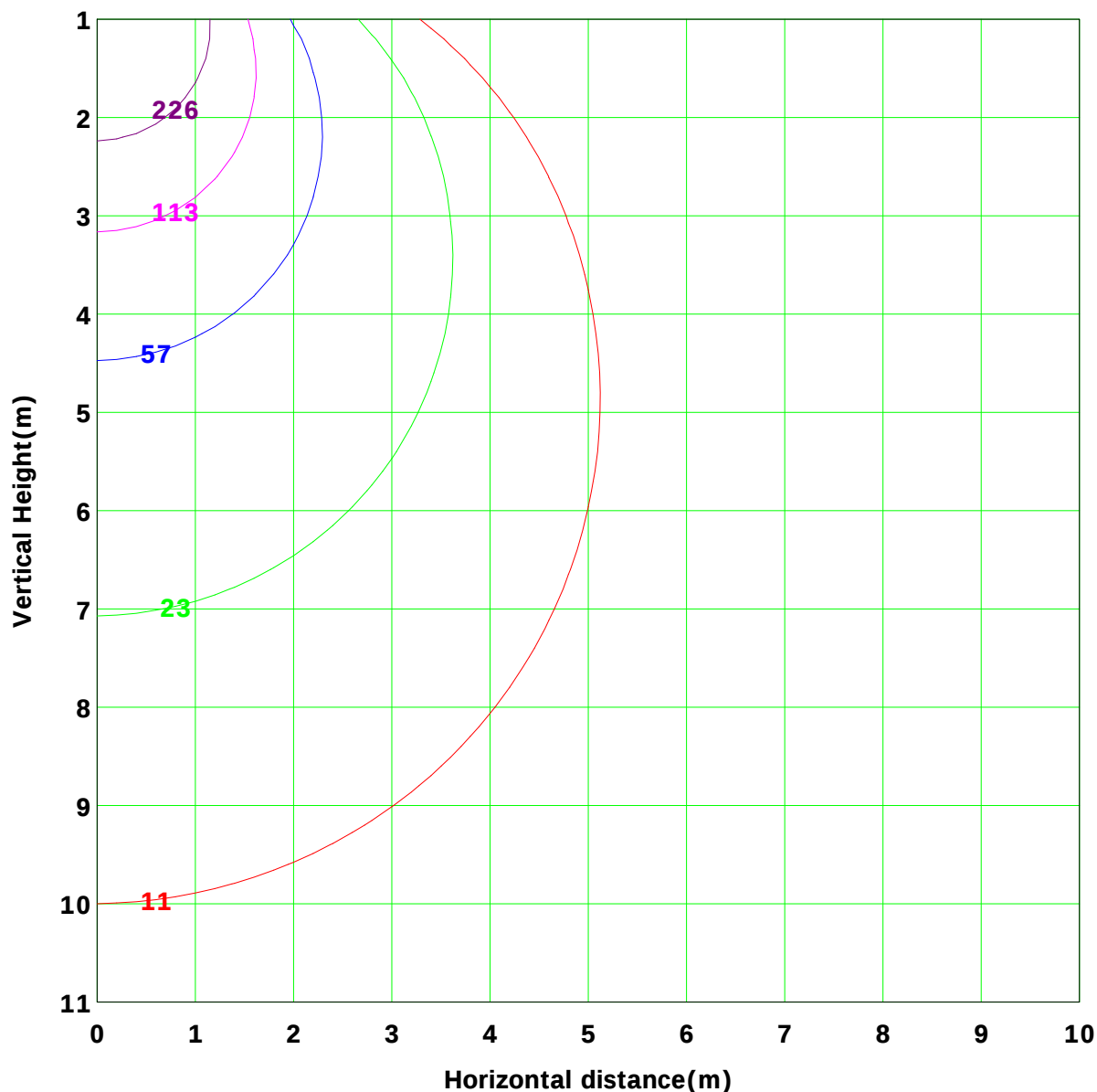
Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1132.2 lx

(1%): 11.3 lx (2%): 22.6 lx
 (5%): 56.6 lx (10%): 113.2 lx
 (20%): 226.4 lx

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 23
 Operator: MEI

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.580 m
 Humidity: 88
 Inspector:

Area Flux Table

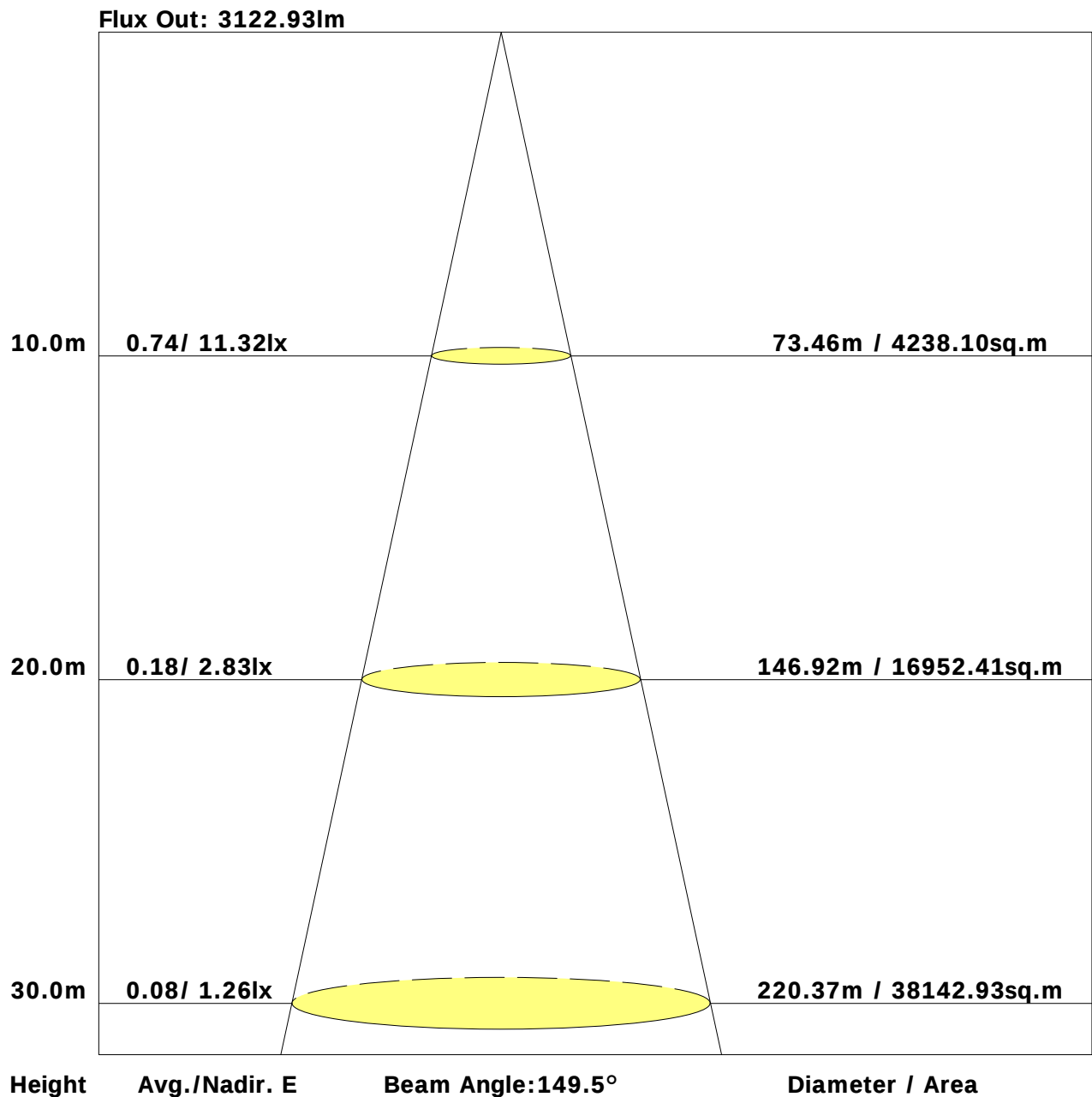
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.1	0.6	1.5	2.9	4.5	6.3	7.7	8.6	9.2	9.1	8.5	7.6	6.1	4.3	2.8	1.5	0.5	0.1	81.8	79.3	
		0.1	0.7	1.9	3.6	5.7	8.2	10.3	11.6	12.4	12.4	11.4	10.0	7.9	5.5	3.4	1.8	0.6	0.1	107.4	105.7	
		0.1	0.8	2.2	4.4	7.1	10.3	13.1	15.0	16.2	16.1	14.8	12.8	9.9	6.8	4.1	2.1	0.7	0.1	136.7	135.5	
		0.1	0.9	2.6	5.2	8.6	12.5	16.2	18.8	20.3	20.2	18.5	15.8	12.0	8.2	4.9	2.4	0.8	0.1	168.1	167.1	
		0.1	0.9	2.9	6.0	10.1	14.7	19.2	22.5	24.3	24.2	22.1	18.7	14.2	9.6	5.7	2.8	0.9	0.1	198.9	198.1	
		0.1	1.0	3.2	6.7	11.4	16.7	21.9	25.8	27.9	27.7	25.5	21.3	16.1	10.8	6.4	3.1	1.0	0.1	226.6	225.9	
		0.1	1.0	3.4	7.3	12.5	18.4	24.1	28.5	30.8	30.6	28.1	23.4	17.7	11.9	7.0	3.3	1.0	0.1	249.2	248.5	
		0.1	1.0	3.5	7.6	13.2	19.6	25.6	30.3	32.8	32.7	29.9	24.9	18.9	12.7	7.3	3.4	1.0	0.1	264.6	263.9	
		0.1	1.0	3.4	7.6	13.4	20.0	26.4	31.3	33.8	33.6	30.8	25.8	19.4	12.9	7.3	3.3	1.0	0.1	271.1	270.4	
		0.1	1.0	3.4	7.7	13.5	20.2	26.5	31.4	33.9	33.8	31.0	26.0	19.6	13.0	7.4	3.3	1.0	0.1	272.8	272.1	
		0.1	1.1	3.6	7.8	13.6	20.0	26.1	30.8	33.3	33.2	30.4	25.5	19.3	13.0	7.5	3.5	1.0	0.1	269.8	269.2	
		0.1	1.1	3.6	7.7	13.1	19.1	24.9	29.4	31.7	31.6	29.0	24.3	18.4	12.5	7.3	3.4	1.1	0.1	258.3	257.6	
		0.1	1.1	3.5	7.2	12.2	17.7	23.1	27.2	29.3	29.1	26.7	22.5	17.0	11.5	6.8	3.3	1.0	0.1	239.4	238.8	
		0.1	1.0	3.2	6.6	11.0	15.9	20.7	24.2	26.1	26.0	23.8	20.2	15.3	10.4	6.2	3.0	1.0	0.1	214.8	214.1	
		0.1	1.0	2.9	5.9	9.6	13.9	17.9	20.7	22.4	22.3	20.4	17.5	13.3	9.1	5.4	2.7	0.9	0.1	186.0	185.1	
		0.1	0.9	2.5	5.0	8.1	11.6	14.9	17.0	18.4	18.3	16.7	14.5	11.2	7.7	4.7	2.3	0.8	0.1	154.7	153.7	
		0.1	0.8	2.2	4.2	6.6	9.4	11.8	13.3	14.3	14.3	13.1	11.5	9.0	6.3	3.9	2.0	0.7	0.1	123.5	122.2	
		0.1	0.7	1.8	3.4	5.3	7.3	9.0	10.0	10.7	10.6	9.8	8.8	7.1	5.0	3.2	1.7	0.6	0.1	95.0	93.2	
		1.8	16.4	51.3	106.9	179.4	261.7	339.4	396.2	427.7	425.7	390.4	331.0	252.4	171.2	101.2	48.6	15.6	1.8	3519		
		0.0	10.1	50.7	106.9	179.4	261.7	339.4	396.2	427.7	425.7	390.4	331.0	252.4	171.2	101.2	47.4	8.8	0.0		3500	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
		Horizontal plane																				
Flux(E)	Flux(T)	0.1	0.6	1.5	2.9	4.5	6.3	7.7	8.6	9.2	9.1	8.5	7.6	6.1	4.3	2.8	1.5	0.5	0.1	81.8	79.3	
		0.1	0.7	1.9	3.6	5.7	8.2	10.3	11.6	12.4	12.4	11.4	10.0	7.9	5.5	3.4	1.8	0.6	0.1	107.4	105.7	
		0.1	0.8	2.2	4.4	7.1	10.3	13.1	15.0	16.2	16.1	14.8	12.8	9.9	6.8	4.1	2.1	0.7	0.1	136.7	135.5	
		0.1	0.9	2.6	5.2	8.6	12.5	16.2	18.8	20.3	20.2	18.5	15.8	12.0	8.2	4.9	2.4	0.8	0.1	168.1	167.1	
		0.1	0.9	2.9	6.0	10.1	14.7	19.2	22.5	24.3	24.2	22.1	18.7	14.2	9.6	5.7	2.8	0.9	0.1	198.9	198.1	
		0.1	1.0	3.2	6.7	11.4	16.7	21.9	25.8	27.9	27.7	25.5	21.3	16.1	10.8	6.4	3.1	1.0	0.1	226.6	225.9	
		0.1	1.0	3.4	7.3	12.5	18.4	24.1	28.5	30.8	30.6	28.1	23.4	17.7	11.9	7.0	3.3	1.0	0.1	249.2	248.5	
		0.1	1.0	3.5	7.6	13.2	19.6	25.6	30.3	32.8	32.7	29.9	24.9	18.9	12.7	7.3	3.4	1.0	0.1	264.6	263.9	
		0.1	1.0	3.4	7.6	13.4	20.0	26.4	31.3	33.8	33.6	30.8	25.8	19.4	12.9	7.3	3.3	1.0	0.1	271.1	270.4	
		0.1	1.0	3.4	7.7	13.5	20.2	26.5	31.4	33.9	33.8	31.0	26.0	19.6	13.0	7.4	3.3	1.0	0.1	272.8	272.1	
		0.1	1.1	3.6	7.8	13.6	20.0	26.1	30.8	33.3	33.2	30.4	25.5	19.3	13.0	7.5	3.5	1.0	0.1	269.8	269.2	
		0.1	1.1	3.6	7.7	13.1	19.1	24.9	29.4	31.7	31.6	29.0	24.3	18.4	12.5	7.3	3.4	1.1	0.1	258.3	257.6	
		0.1	1.1	3.5	7.2	12.2	17.7	23.1	27.2	29.3	29.1	26.7	22.5	17.0	11.5	6.8	3.3	1.0	0.1	239.4	238.8	
		0.1	1.0	3.2	6.6	11.0	15.9	20.7	24.2	26.1	26.0	23.8	20.2	15.3	10.4	6.2	3.0	1.0	0.1	214.8	214.1	
		0.1	1.0	2.9	5.9	9.6	13.9	17.9	20.7	22.4	22.3	20.4	17.5	13.3	9.1	5.4	2.7	0.9	0.1	186.0	185.1	
		0.1	0.9	2.5	5.0	8.1	11.6	14.9	17.0	18.4	18.3	16.7	14.5	11.2	7.7	4.7	2.3	0.8	0.1	154.7	153.7	
		0.1	0.8	2.2	4.2	6.6	9.4	11.8	13.3	14.3	14.3	13.1	11.5	9.0	6.3	3.9	2.0	0.7	0.1	123.5	122.2	
		0.1	0.7	1.8	3.4	5.3	7.3	9.0	10.0	10.7	10.6	9.8	8.8	7.1	5.0	3.2	1.7	0.6	0.1	95.0	93.2	
		1.8	16.4	51.3	106.9	179.4	261.7	339.4	396.2	427.7	425.7	390.4	331.0	252.4	171.2	101.2	48.6	15.6	1.8	3519		
		0.0	10.1	50.7	106.9	179.4	261.7	339.4	396.2	427.7	425.7	390.4	331.0	252.4	171.2	101.2	47.4	8.8	0.0		3500	

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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.580 m
 Humidity: 88
 Inspector:

The Average Illuminance Effective Figure



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Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	11.5	12.9	12.0	13.4	14.0	12.9	14.3	13.4	14.9	15.5
3H	12.9	14.2	13.4	14.8	15.4	14.9	16.2	15.5	16.8	17.4
4H	13.4	14.6	13.9	15.2	15.8	15.8	17.1	16.4	17.6	18.2
6H	13.7	14.8	14.3	15.4	16.1	16.6	17.8	17.2	18.4	19.0
8H	13.7	14.9	14.3	15.5	16.1	17.0	18.1	17.6	18.7	19.4
12H	13.8	14.8	14.4	15.4	16.1	17.3	18.4	17.9	19.0	19.7
X=4H Y=2H	12.1	13.4	12.7	13.9	14.6	13.4	14.6	14.0	15.2	15.8
3H	13.8	14.9	14.4	15.5	16.1	15.7	16.8	16.3	17.4	18.0
4H	14.5	15.4	15.1	16.0	16.7	16.8	17.7	17.4	18.3	19.0
6H	14.9	15.8	15.5	16.4	17.1	17.8	18.6	18.4	19.3	20.0
8H	15.1	15.9	15.7	16.5	17.2	18.2	19.0	18.8	19.7	20.4
12H	15.1	15.9	15.8	16.5	17.3	18.7	19.4	19.3	20.1	20.8
X=8H Y=4H	15.0	15.8	15.6	16.4	17.1	17.1	17.9	17.7	18.5	19.2
6H	15.6	16.4	16.3	17.0	17.7	18.2	19.0	18.9	19.6	20.3
8H	15.9	16.5	16.6	17.2	17.9	18.9	19.5	19.5	20.2	20.9
12H	16.1	16.7	16.8	17.3	18.1	19.5	20.0	20.1	20.7	21.5
X=12H Y=4H	15.1	15.9	15.7	16.5	17.2	17.1	17.8	17.7	18.5	19.2
6H	15.9	16.5	16.5	17.1	17.9	18.3	19.0	19.0	19.6	20.4
8H	16.2	16.8	16.9	17.4	18.2	19.0	19.6	19.7	20.2	21.0

Calculate in accordance with CIE 190:2010

C Plane (°): 0.0-360.0: 30.0

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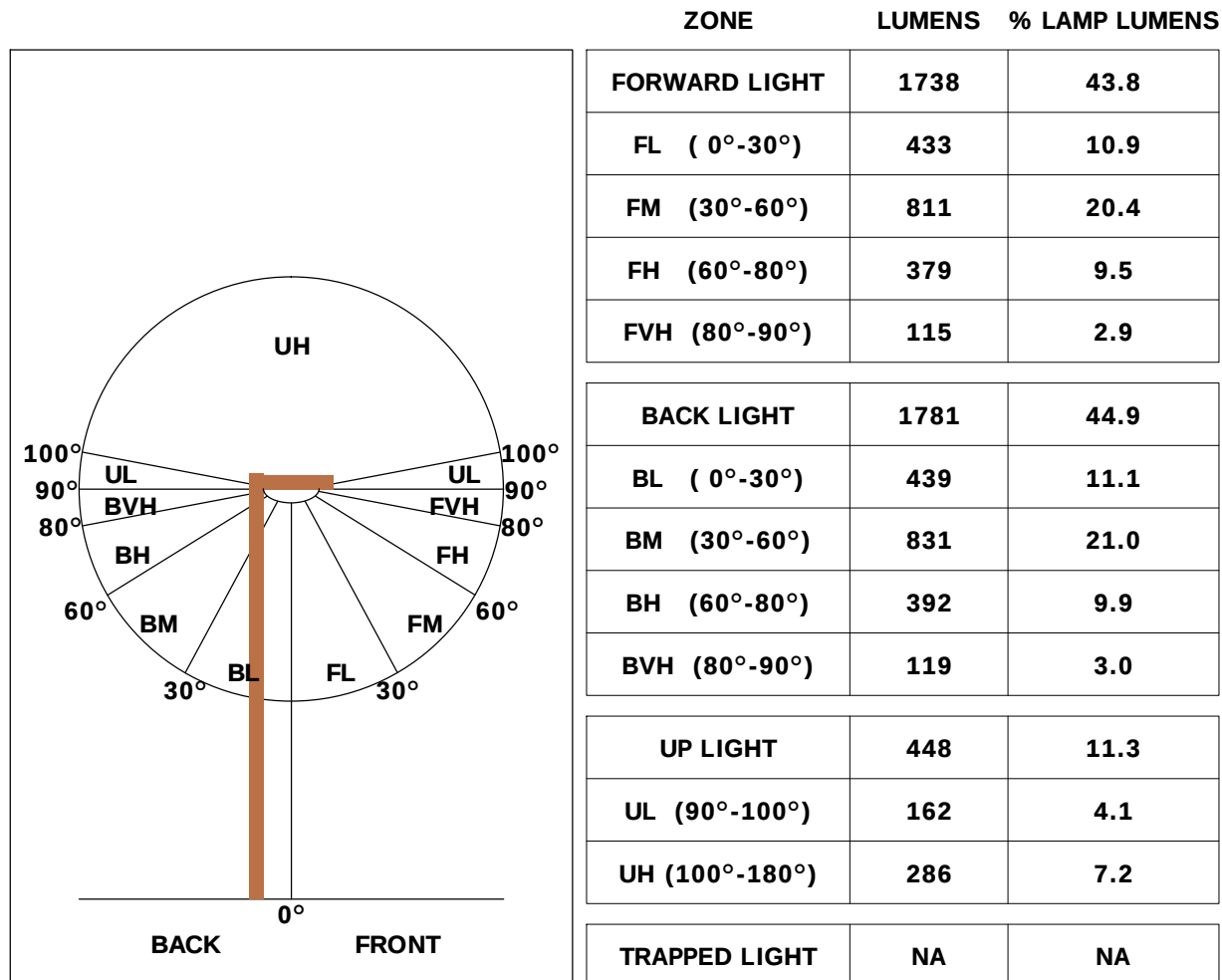
Gamma Plane (°): 0.0-180.0: 1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 G1

C Plane (°):0.0-360.0: 30.0

Test Lab:

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Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	0.51	0.61	0.68	0.73	0.80	0.85	0.89	0.93	0.96	
	0.30		0.43	0.53	0.60	0.65	0.73	0.79	0.83	0.88	0.92	
	0.20		0.37	0.47	0.54	0.59	0.67	0.73	0.78	0.84	0.88	
0.50	0.50	0.20	0.49	0.57	0.64	0.68	0.75	0.80	0.83	0.87	0.90	
	0.30		0.42	0.51	0.57	0.62	0.69	0.74	0.78	0.83	0.87	
	0.20		0.36	0.45	0.52	0.57	0.64	0.70	0.74	0.80	0.84	
0.30	0.50	0.20	0.46	0.54	0.60	0.64	0.70	0.75	0.78	0.82	0.84	
	0.30		0.40	0.48	0.55	0.59	0.66	0.70	0.74	0.78	0.82	
	0.20		0.35	0.44	0.50	0.55	0.62	0.67	0.70	0.76	0.79	
0.00	0.00	0.00	0.32	0.40	0.46	0.50	0.56	0.61	0.64	0.69	0.72	
Rating:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	1.02	0.86	0.74	0.66	0.53	0.45	0.39	0.31	0.26	
	0.30		0.85	0.73	0.65	0.58	0.48	0.42	0.36	0.29	0.25	
	0.20		0.73	0.64	0.57	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.96	0.80	0.70	0.61	0.50	0.45	0.37	0.29	0.25	
	0.30		0.81	0.70	0.61	0.55	0.46	0.39	0.35	0.28	0.23	
	0.20		0.70	0.62	0.55	0.50	0.42	0.37	0.32	0.26	0.23	
0.30	0.50	0.20	0.91	0.76	0.65	0.58	0.47	0.40	0.35	0.28	0.23	
	0.30		0.78	0.67	0.59	0.52	0.43	0.37	0.33	0.26	0.22	
	0.20		0.68	0.59	0.53	0.48	0.40	0.35	0.31	0.25	0.21	
0.00	0.00	0.00	0.57	0.49	0.43	0.39	0.33	0.28	0.25	0.20	0.17	
Rating:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	0.27	0.29	0.30	0.30	0.31	0.32	0.32	0.33	0.33	
	0.30		0.20	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.30	
	0.20		0.15	0.17	0.18	0.19	0.21	0.23	0.24	0.26	0.27	
0.50	0.50	0.20	0.27	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.31	
	0.30		0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	
	0.20		0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.25	0.26	
0.30	0.50	0.20	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	
	0.30		0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	
	0.20		0.15	0.17	0.18	0.19	0.20	0.22	0.23	0.24	0.25	
0.00	0.00	0.00	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	
Rating:32W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	1127.9	1.1	1.1	0.03	0.03
1.0-2.0	1127.6	3.2	4.3	0.08	0.11
2.0-3.0	1126.8	5.4	9.7	0.14	0.24
3.0-4.0	1125.7	7.5	17.2	0.19	0.43
4.0-5.0	1124.2	9.7	26.9	0.24	0.68
5.0-6.0	1122.2	11.8	38.7	0.30	0.98
6.0-7.0	1119.9	13.9	52.6	0.35	1.33
7.0-8.0	1117.1	16.0	68.6	0.40	1.73
8.0-9.0	1114.0	18.1	86.7	0.46	2.18
9.0-10.0	1110.4	20.1	106.8	0.51	2.69
10.0-11.0	1106.4	22.1	128.9	0.56	3.25
11.0-12.0	1101.8	24.1	153.0	0.61	3.86
12.0-13.0	1096.8	26.0	179.0	0.66	4.51
13.0-14.0	1091.5	27.9	206.9	0.70	5.22
14.0-15.0	1085.6	29.8	236.7	0.75	5.97
15.0-16.0	1079.3	31.6	268.4	0.80	6.76
16.0-17.0	1072.6	33.4	301.8	0.84	7.61
17.0-18.0	1065.4	35.1	336.9	0.89	8.49
18.0-19.0	1057.7	36.8	373.7	0.93	9.42
19.0-20.0	1049.7	38.4	412.1	0.97	10.39
20.0-21.0	1041.3	40.0	452.1	1.01	11.40
21.0-22.0	1032.5	41.5	493.6	1.05	12.44
22.0-23.0	1023.3	42.9	536.6	1.08	13.53
23.0-24.0	1013.6	44.3	580.9	1.12	14.64
24.0-25.0	1003.6	45.6	626.5	1.15	15.79
25.0-26.0	993.2	46.9	673.4	1.18	16.98
26.0-27.0	982.4	48.1	721.5	1.21	18.19
27.0-28.0	971.4	49.2	770.7	1.24	19.43
28.0-29.0	960.0	50.2	820.9	1.27	20.69
29.0-30.0	948.2	51.2	872.1	1.29	21.98
30.0-31.0	936.1	52.1	924.2	1.31	23.30
31.0-32.0	923.9	52.9	977.1	1.33	24.63
32.0-33.0	911.3	53.7	1030.8	1.35	25.99
33.0-34.0	898.4	54.4	1085.2	1.37	27.36
34.0-35.0	885.3	55.0	1140.2	1.39	28.74
35.0-36.0	872.0	55.5	1195.7	1.40	30.14

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	858.4	56.0	1251.7	1.41	31.55
37.0-38.0	844.6	56.4	1308.1	1.42	32.97
38.0-39.0	830.6	56.7	1364.8	1.43	34.40
39.0-40.0	816.5	57.0	1421.8	1.44	35.84
40.0-41.0	802.2	57.1	1478.9	1.44	37.28
41.0-42.0	787.7	57.2	1536.1	1.44	38.72
42.0-43.0	773.1	57.3	1593.4	1.44	40.17
43.0-44.0	758.5	57.3	1650.7	1.44	41.61
44.0-45.0	743.6	57.2	1707.8	1.44	43.05
45.0-46.0	728.7	57.0	1764.8	1.44	44.49
46.0-47.0	713.7	56.8	1821.6	1.43	45.92
47.0-48.0	698.8	56.5	1878.1	1.42	47.34
48.0-49.0	683.7	56.2	1934.2	1.42	48.76
49.0-50.0	668.5	55.7	1990.0	1.41	50.16
50.0-51.0	653.3	55.3	2045.3	1.39	51.56
51.0-52.0	638.2	54.8	2100.0	1.38	52.94
52.0-53.0	623.1	54.2	2154.2	1.37	54.30
53.0-54.0	608.0	53.6	2207.8	1.35	55.65
54.0-55.0	593.1	52.9	2260.8	1.33	56.99
55.0-56.0	578.1	52.2	2313.0	1.32	58.31
56.0-57.0	563.2	51.5	2364.5	1.30	59.60
57.0-58.0	548.3	50.7	2415.3	1.28	60.88
58.0-59.0	533.5	49.9	2465.1	1.26	62.14
59.0-60.0	518.9	49.0	2514.2	1.24	63.38
60.0-61.0	504.4	48.1	2562.3	1.21	64.59
61.0-62.0	490.0	47.2	2609.5	1.19	65.78
62.0-63.0	475.8	46.3	2655.8	1.17	66.95
63.0-64.0	461.7	45.3	2701.1	1.14	68.09
64.0-65.0	447.8	44.3	2745.5	1.12	69.21
65.0-66.0	434.0	43.3	2788.8	1.09	70.30
66.0-67.0	420.4	42.3	2831.0	1.07	71.36
67.0-68.0	407.1	41.2	2872.3	1.04	72.40
68.0-69.0	394.0	40.2	2912.5	1.01	73.42
69.0-70.0	381.0	39.1	2951.6	0.99	74.40
70.0-71.0	368.3	38.1	2989.7	0.96	75.36
71.0-72.0	355.8	37.0	3026.7	0.93	76.30

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 23
 Operator: MEI

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.580 m
 Humidity: 88
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	343.5	35.9	3062.6	0.91	77.20
73.0-74.0	331.5	34.9	3097.5	0.88	78.08
74.0-75.0	319.7	33.8	3131.3	0.85	78.93
75.0-76.0	308.2	32.7	3164.0	0.82	79.76
76.0-77.0	297.0	31.7	3195.6	0.80	80.56
77.0-78.0	286.0	30.6	3226.3	0.77	81.33
78.0-79.0	275.3	29.6	3255.8	0.75	82.07
79.0-80.0	264.9	28.6	3284.4	0.72	82.79
80.0-81.0	254.9	27.6	3312.0	0.69	83.49
81.0-82.0	245.1	26.6	3338.6	0.67	84.16
82.0-83.0	235.6	25.6	3364.2	0.65	84.80
83.0-84.0	226.5	24.7	3388.9	0.62	85.43
84.0-85.0	217.8	23.8	3412.6	0.60	86.02
85.0-86.0	209.4	22.9	3435.5	0.58	86.60
86.0-87.0	201.4	22.0	3457.6	0.56	87.16
87.0-88.0	193.8	21.2	3478.8	0.54	87.69
88.0-89.0	186.7	20.5	3499.3	0.52	88.21
89.0-90.0	180.0	19.7	3519.0	0.50	88.71
90.0-91.0	173.6	19.0	3538.0	0.48	89.19
91.0-92.0	167.5	18.4	3556.4	0.46	89.65
92.0-93.0	161.6	17.7	3574.1	0.45	90.10
93.0-94.0	155.8	17.1	3591.2	0.43	90.53
94.0-95.0	150.2	16.4	3607.6	0.41	90.94
95.0-96.0	144.9	15.8	3623.4	0.40	91.34
96.0-97.0	139.7	15.2	3638.6	0.38	91.72
97.0-98.0	134.6	14.6	3653.3	0.37	92.09
98.0-99.0	129.8	14.1	3667.3	0.35	92.45
99.0-100.0	125.1	13.5	3680.9	0.34	92.79
100.0-101.0	120.7	13.0	3693.9	0.33	93.11
101.0-102.0	116.4	12.5	3706.4	0.32	93.43
102.0-103.0	112.3	12.0	3718.4	0.30	93.73
103.0-104.0	108.2	11.5	3730.0	0.29	94.02
104.0-105.0	104.0	11.0	3741.0	0.28	94.30
105.0-106.0	99.8	10.5	3751.5	0.27	94.57
106.0-107.0	95.4	10.0	3761.6	0.25	94.82
107.0-108.0	91.0	9.5	3771.1	0.24	95.06

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	87.0	9.1	3780.2	0.23	95.29
109.0-110.0	83.4	8.6	3788.8	0.22	95.51
110.0-111.0	80.2	8.2	3797.0	0.21	95.71
111.0-112.0	77.3	7.9	3804.9	0.20	95.91
112.0-113.0	74.7	7.6	3812.5	0.19	96.10
113.0-114.0	72.3	7.3	3819.7	0.18	96.29
114.0-115.0	70.0	7.0	3826.7	0.18	96.46
115.0-116.0	67.8	6.7	3833.4	0.17	96.63
116.0-117.0	65.7	6.5	3839.9	0.16	96.79
117.0-118.0	63.8	6.2	3846.1	0.16	96.95
118.0-119.0	61.9	6.0	3852.1	0.15	97.10
119.0-120.0	60.1	5.7	3857.8	0.14	97.25
120.0-121.0	58.3	5.5	3863.3	0.14	97.39
121.0-122.0	56.6	5.3	3868.6	0.13	97.52
122.0-123.0	55.0	5.1	3873.7	0.13	97.65
123.0-124.0	53.4	4.9	3878.6	0.12	97.77
124.0-125.0	51.9	4.7	3883.3	0.12	97.89
125.0-126.0	50.4	4.5	3887.8	0.11	98.00
126.0-127.0	49.0	4.3	3892.1	0.11	98.11
127.0-128.0	47.6	4.1	3896.2	0.10	98.22
128.0-129.0	46.3	4.0	3900.2	0.10	98.32
129.0-130.0	45.0	3.8	3904.0	0.10	98.41
130.0-131.0	43.7	3.6	3907.6	0.09	98.50
131.0-132.0	42.4	3.5	3911.1	0.09	98.59
132.0-133.0	41.2	3.3	3914.4	0.08	98.67
133.0-134.0	40.0	3.2	3917.6	0.08	98.75
134.0-135.0	38.8	3.0	3920.7	0.08	98.83
135.0-136.0	37.7	2.9	3923.6	0.07	98.90
136.0-137.0	36.6	2.8	3926.3	0.07	98.97
137.0-138.0	35.5	2.6	3929.0	0.07	99.04
138.0-139.0	34.5	2.5	3931.5	0.06	99.10
139.0-140.0	33.5	2.4	3933.8	0.06	99.16
140.0-141.0	32.5	2.3	3936.1	0.06	99.22
141.0-142.0	31.5	2.2	3938.3	0.05	99.27
142.0-143.0	30.6	2.0	3940.3	0.05	99.33
143.0-144.0	29.7	1.9	3942.2	0.05	99.38

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	28.8	1.8	3944.1	0.05	99.42
145.0-146.0	28.0	1.7	3945.8	0.04	99.47
146.0-147.0	27.1	1.6	3947.5	0.04	99.51
147.0-148.0	26.2	1.5	3949.0	0.04	99.55
148.0-149.0	25.4	1.5	3950.5	0.04	99.58
149.0-150.0	24.6	1.4	3951.8	0.03	99.62
150.0-151.0	23.8	1.3	3953.1	0.03	99.65
151.0-152.0	23.0	1.2	3954.3	0.03	99.68
152.0-153.0	22.2	1.1	3955.4	0.03	99.71
153.0-154.0	21.5	1.1	3956.5	0.03	99.73
154.0-155.0	20.8	1.0	3957.5	0.02	99.76
155.0-156.0	20.1	0.9	3958.4	0.02	99.78
156.0-157.0	19.5	0.9	3959.2	0.02	99.80
157.0-158.0	18.9	0.8	3960.0	0.02	99.82
158.0-159.0	18.3	0.7	3960.8	0.02	99.84
159.0-160.0	17.8	0.7	3961.4	0.02	99.86
160.0-161.0	17.2	0.6	3962.1	0.02	99.88
161.0-162.0	16.7	0.6	3962.7	0.01	99.89
162.0-163.0	16.2	0.5	3963.2	0.01	99.90
163.0-164.0	15.7	0.5	3963.7	0.01	99.92
164.0-165.0	15.3	0.4	3964.1	0.01	99.93
165.0-166.0	14.8	0.4	3964.5	0.01	99.94
166.0-167.0	14.5	0.4	3964.9	0.01	99.95
167.0-168.0	14.1	0.3	3965.2	0.01	99.95
168.0-169.0	13.8	0.3	3965.5	0.01	99.96
169.0-170.0	13.5	0.3	3965.8	0.01	99.97
170.0-171.0	13.2	0.2	3966.0	0.01	99.98
171.0-172.0	13.0	0.2	3966.3	0.01	99.98
172.0-173.0	12.8	0.2	3966.4	0.00	99.99
173.0-174.0	12.7	0.2	3966.6	0.00	99.99
174.0-175.0	12.6	0.1	3966.7	0.00	99.99
175.0-176.0	12.6	0.1	3966.8	0.00	100.00
176.0-177.0	12.5	0.1	3966.9	0.00	100.00
177.0-178.0	12.5	0.1	3967.0	0.00	100.00
178.0-179.0	12.5	0.0	3967.0	0.00	100.00
179.0-180.0	12.5	0.0	3967.0	0.00	100.00

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	1132.2	1128.8	1127.1	1126.8	1126.7	1125.5	1132.2	1128.8	1127.1	1126.8
G1.0	1131.5	1128.5	1127.4	1127.7	1127.3	1126.5	1132.5	1129.4	1126.9	1126.8
G2.0	1129.9	1127.6	1127.3	1127.9	1127.7	1126.2	1131.9	1128.6	1126.4	1126.2
G3.0	1127.8	1126.0	1126.3	1128.0	1128.0	1125.5	1131.1	1127.6	1125.5	1124.9
G4.0	1125.6	1123.9	1125.9	1127.7	1127.8	1124.7	1129.7	1126.2	1124.5	1124.0
G5.0	1121.5	1121.3	1124.5	1127.6	1127.0	1123.2	1127.2	1124.4	1123.6	1122.9
G6.0	1118.0	1118.6	1123.2	1127.0	1126.6	1121.0	1124.4	1121.5	1121.4	1121.3
G7.0	1113.8	1115.0	1121.5	1126.5	1125.1	1118.5	1120.8	1118.8	1119.7	1119.9
G8.0	1108.7	1111.2	1119.7	1125.6	1123.8	1115.9	1117.1	1115.2	1117.2	1117.4
G9.0	1102.7	1106.8	1117.7	1124.6	1122.1	1112.4	1112.1	1111.2	1114.5	1115.5
G10.0	1097.0	1101.8	1114.9	1123.2	1120.2	1108.3	1107.0	1106.6	1111.2	1112.4
G11.0	1089.9	1096.3	1111.7	1121.0	1117.7	1103.6	1101.3	1101.7	1107.8	1109.3
G12.0	1082.8	1090.7	1108.4	1119.1	1114.8	1099.1	1094.5	1096.3	1103.3	1105.6
G13.0	1074.7	1084.5	1104.4	1116.5	1111.3	1093.7	1087.6	1090.3	1099.1	1102.0
G14.0	1065.9	1077.4	1100.3	1113.5	1108.2	1088.3	1080.1	1083.6	1094.4	1097.6
G15.0	1057.0	1070.2	1096.1	1110.0	1103.9	1081.7	1071.7	1076.8	1089.6	1093.0
G16.0	1047.3	1062.2	1091.0	1106.4	1099.5	1075.3	1062.8	1069.3	1083.9	1088.0
G17.0	1037.5	1054.3	1085.5	1102.6	1094.6	1068.2	1053.6	1061.9	1077.8	1082.6
G18.0	1026.5	1046.1	1079.9	1098.2	1089.2	1060.3	1043.2	1052.8	1071.6	1077.1
G19.0	1015.2	1036.8	1073.5	1093.6	1083.5	1052.1	1033.1	1043.6	1064.4	1070.8
G20.0	1003.7	1027.6	1067.4	1088.5	1077.8	1043.3	1021.7	1034.7	1057.3	1064.5
G21.0	991.8	1017.8	1060.8	1083.5	1071.6	1034.3	1010.5	1024.9	1049.7	1057.8
G22.0	978.6	1007.3	1053.6	1078.0	1065.0	1025.5	998.3	1014.3	1041.9	1050.3
G23.0	965.7	996.6	1046.4	1072.0	1057.9	1014.7	985.5	1004.0	1033.6	1042.8
G24.0	951.8	985.4	1038.1	1065.9	1051.0	1005.1	972.0	992.4	1025.0	1035.1
G25.0	937.8	974.1	1030.2	1059.3	1043.0	994.0	959.0	980.5	1015.9	1027.3
G26.0	923.1	961.9	1021.7	1052.6	1035.5	982.8	944.7	968.8	1006.8	1018.7
G27.0	908.2	949.8	1013.7	1045.1	1027.0	971.2	930.3	956.4	996.9	1010.0
G28.0	893.3	937.5	1004.9	1038.3	1018.4	959.8	914.8	944.0	986.8	1001.0
G29.0	877.7	924.1	995.0	1030.3	1009.3	946.9	899.4	930.5	976.4	991.8
G30.0	861.4	910.6	985.9	1021.9	1000.5	934.8	883.7	916.8	966.2	982.2
G31.0	845.0	897.4	976.0	1013.8	990.8	921.6	867.5	902.9	955.6	972.3
G32.0	828.0	883.6	966.2	1005.6	981.3	908.8	850.9	889.4	944.3	962.5
G33.0	811.2	869.6	955.9	996.6	971.6	895.1	833.6	874.6	933.2	952.0
G34.0	794.2	855.2	945.1	987.6	961.2	882.0	816.6	859.4	921.5	941.4
G35.0	776.5	840.5	934.5	978.4	950.6	867.5	799.1	844.7	909.3	931.2
G36.0	758.4	825.9	923.9	968.3	940.1	853.7	781.7	829.6	897.7	920.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	740.4	811.2	912.8	958.8	929.2	839.5	762.8	814.3	885.5	908.8
G38.0	722.7	795.3	900.9	948.9	918.2	824.3	744.3	798.9	873.2	897.8
G39.0	704.2	780.2	889.9	938.9	906.4	809.4	726.0	782.9	860.8	886.3
G40.0	685.2	764.6	878.2	928.4	895.4	794.7	707.5	766.7	848.0	874.3
G41.0	667.2	749.0	866.4	918.0	883.4	779.6	688.9	750.4	834.9	862.0
G42.0	648.5	733.2	854.6	907.0	871.5	763.9	669.8	734.2	821.7	850.2
G43.0	630.3	717.5	842.3	896.2	859.5	748.6	650.0	718.0	808.9	837.9
G44.0	611.2	701.3	829.6	884.8	847.0	732.8	631.4	701.9	795.5	825.5
G45.0	592.6	685.9	817.4	873.8	835.0	717.2	611.4	685.2	782.1	812.6
G46.0	573.6	669.4	804.7	862.2	821.9	701.4	592.5	669.2	768.4	799.8
G47.0	555.1	653.9	791.9	850.3	809.8	685.4	573.9	651.9	754.8	787.0
G48.0	536.2	638.0	778.9	838.3	796.9	670.0	554.6	635.3	741.3	774.1
G49.0	517.7	622.0	765.8	826.7	784.3	654.7	534.9	619.2	727.2	760.6
G50.0	499.0	606.0	752.9	813.9	771.0	637.6	515.9	602.2	713.3	747.2
G51.0	480.6	590.0	740.8	801.7	758.2	622.6	496.6	585.9	699.4	733.7
G52.0	462.7	574.1	726.8	789.0	745.0	605.7	477.8	569.8	685.8	720.5
G53.0	444.4	559.1	713.7	776.4	731.9	590.6	459.0	553.0	671.4	706.6
G54.0	426.7	543.0	700.5	763.7	718.5	574.8	440.7	537.5	657.4	693.4
G55.0	409.1	528.0	687.4	750.6	705.1	559.4	422.2	521.1	643.4	679.5
G56.0	391.6	512.7	673.7	737.4	691.4	543.9	404.2	505.1	629.3	666.3
G57.0	374.4	497.3	660.6	724.3	678.0	528.8	385.9	489.4	615.6	652.1
G58.0	357.1	482.1	646.6	710.8	664.4	513.4	368.3	474.0	601.3	638.5
G59.0	340.2	467.4	633.4	697.5	650.7	498.0	350.8	458.5	587.8	624.7
G60.0	323.6	452.5	619.9	684.4	636.9	483.2	334.0	443.5	573.6	611.1
G61.0	307.5	438.0	606.7	671.1	623.5	468.2	316.4	428.2	560.3	597.6
G62.0	291.2	423.5	592.9	657.3	610.0	453.6	300.0	413.8	546.5	584.0
G63.0	275.4	409.9	579.9	643.6	596.4	439.3	283.8	399.2	533.2	570.3
G64.0	260.4	396.1	566.3	629.4	582.7	424.8	267.6	385.3	519.7	556.6
G65.0	244.5	382.7	553.1	616.2	569.3	411.3	251.3	371.0	506.4	543.3
G66.0	229.8	369.1	539.8	602.4	555.8	397.4	235.9	357.8	493.4	529.7
G67.0	215.1	356.0	526.4	588.7	542.2	384.0	221.1	344.3	480.2	517.1
G68.0	200.7	343.3	514.0	575.1	528.8	370.5	206.3	331.4	467.6	503.6
G69.0	186.6	330.7	500.6	561.0	516.4	357.6	191.6	318.4	454.8	490.8
G70.0	173.1	318.5	487.7	547.3	502.4	344.8	177.0	306.3	442.5	478.0
G71.0	159.5	306.7	475.3	533.8	489.9	332.2	163.4	293.9	430.2	465.6
G72.0	146.6	294.6	462.9	520.3	476.7	319.8	150.1	282.4	417.7	452.5
G73.0	134.1	283.5	450.0	507.2	464.2	308.4	136.9	271.1	406.1	440.0

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	121.3	272.6	437.9	493.5	451.5	296.4	123.8	259.7	394.7	428.0
G75.0	109.6	262.2	425.6	480.0	439.0	285.0	111.4	249.3	383.2	415.9
G76.0	97.7	251.9	413.5	467.0	426.9	274.3	99.6	238.8	372.0	404.1
G77.0	86.6	241.3	402.1	454.0	414.8	263.2	88.3	229.0	360.7	392.0
G78.0	75.9	232.1	390.5	441.4	402.8	253.0	76.7	218.8	349.8	380.8
G79.0	65.5	222.4	378.7	428.5	390.9	242.9	66.2	209.7	339.2	369.7
G80.0	56.1	213.7	368.0	416.2	379.3	233.4	56.4	200.5	328.7	358.5
G81.0	46.7	204.5	356.8	404.1	367.8	223.7	47.2	191.9	318.9	347.3
G82.0	38.6	196.3	346.1	392.0	356.9	214.6	38.3	183.5	308.4	336.6
G83.0	30.6	187.9	335.8	379.7	345.8	205.8	30.3	175.6	299.0	326.1
G84.0	23.5	180.2	325.1	368.5	335.1	197.3	23.1	167.9	289.3	315.9
G85.0	17.3	172.6	315.1	357.1	324.4	189.2	17.0	160.7	280.2	305.9
G86.0	12.1	165.5	305.1	345.7	314.6	181.4	11.6	153.4	270.7	296.1
G87.0	8.0	158.5	295.4	334.7	304.2	173.7	7.4	146.6	262.3	286.5
G88.0	5.0	151.8	286.1	324.0	294.5	166.3	4.5	140.0	253.6	277.2
G89.0	3.6	145.6	276.6	313.5	285.0	159.4	3.0	133.9	245.1	268.3
G90.0	3.2	139.6	267.7	303.0	275.7	152.7	2.7	128.0	237.0	259.2
G91.0	3.1	133.6	258.9	293.1	266.7	146.2	2.8	122.4	229.4	250.8
G92.0	3.2	128.2	250.5	283.7	258.1	140.2	2.9	117.1	221.6	242.6
G93.0	3.4	122.9	242.2	274.1	249.5	134.3	3.0	111.9	214.1	234.7
G94.0	3.4	117.9	234.2	265.0	241.1	128.6	3.1	106.7	206.6	226.7
G95.0	3.6	112.9	226.4	256.1	232.9	123.3	3.2	102.0	199.7	219.1
G96.0	3.7	108.4	218.6	247.6	225.1	118.3	3.3	97.4	192.7	211.8
G97.0	3.8	103.9	211.1	239.0	217.2	113.1	3.4	93.1	186.1	204.7
G98.0	4.0	99.8	204.0	231.1	210.1	108.5	3.5	88.9	179.4	197.7
G99.0	4.1	95.9	196.9	222.9	202.7	104.0	3.7	84.9	173.3	191.2
G100.0	4.2	92.1	190.3	215.4	195.8	99.8	3.8	81.2	167.0	184.6
G101.0	4.3	88.4	183.8	208.1	188.9	95.9	3.9	77.5	161.3	178.7
G102.0	4.5	85.0	177.6	201.0	182.6	92.0	4.0	74.1	155.5	172.6
G103.0	4.6	81.8	171.5	194.4	176.2	88.2	4.1	70.8	150.2	167.0
G104.0	4.8	78.7	165.6	188.1	170.2	84.8	4.3	67.6	144.6	161.7
G105.0	4.8	75.7	160.1	181.8	164.1	81.4	4.4	64.6	136.8	156.5
G106.0	5.0	72.9	153.1	175.8	158.6	78.2	4.5	61.8	127.9	151.3
G107.0	5.1	70.2	144.0	169.9	150.5	75.1	4.6	59.1	120.6	145.7
G108.0	5.3	67.6	135.9	164.4	140.8	72.3	4.8	56.3	115.0	139.2
G109.0	5.4	64.6	129.3	157.9	131.8	69.7	4.9	53.3	111.2	134.4
G110.0	5.6	61.2	124.8	151.1	125.2	66.6	5.0	50.2	107.6	130.3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	5.7	57.9	120.9	145.1	120.8	63.1	5.1	47.5	104.4	126.4
G112.0	5.8	54.9	117.2	140.6	117.3	59.6	5.3	45.0	101.0	122.7
G113.0	6.0	52.3	113.6	136.2	113.8	56.3	5.4	43.1	97.8	119.0
G114.0	6.1	50.4	110.0	132.0	110.6	53.3	5.5	41.4	94.6	115.3
G115.0	6.3	48.7	106.5	128.0	107.3	50.8	5.6	40.2	91.6	112.0
G116.0	6.4	47.1	103.0	124.2	104.2	48.8	5.8	38.9	88.8	108.7
G117.0	6.5	45.6	99.7	120.4	101.0	47.0	5.9	37.8	85.8	105.5
G118.0	6.7	44.3	96.5	116.9	98.1	45.5	6.0	36.8	83.0	102.5
G119.0	6.8	43.0	93.5	113.5	95.0	44.0	6.1	35.7	80.2	99.4
G120.0	6.9	41.8	90.6	110.1	92.1	42.7	6.3	34.7	77.6	96.4
G121.0	7.0	40.7	87.8	106.8	89.3	41.5	6.4	33.6	75.2	93.6
G122.0	7.2	39.6	85.0	103.7	86.5	40.3	6.6	32.6	72.7	90.8
G123.0	7.3	38.6	82.1	100.6	83.9	39.1	6.7	31.6	70.5	88.1
G124.0	7.4	37.5	79.3	97.8	81.3	38.1	6.8	30.7	68.5	85.5
G125.0	7.6	36.6	76.7	94.9	78.7	37.0	6.9	29.9	66.4	82.9
G126.0	7.7	35.6	74.1	92.2	76.2	36.0	7.0	29.1	64.5	80.4
G127.0	7.8	34.8	72.1	89.5	74.0	35.1	7.2	28.4	62.5	78.1
G128.0	8.0	33.8	69.9	86.9	71.6	34.2	7.3	27.6	60.7	75.9
G129.0	8.1	32.9	67.9	84.3	69.3	33.2	7.4	26.9	58.9	73.6
G130.0	8.2	32.0	65.8	81.8	67.0	32.4	7.6	26.2	57.1	71.5
G131.0	8.4	31.2	63.9	79.4	64.9	31.5	7.7	25.4	55.3	69.3
G132.0	8.4	30.1	62.1	77.0	62.9	30.7	7.8	24.7	53.7	67.3
G133.0	8.6	29.0	60.3	74.7	60.8	29.9	7.9	24.1	52.0	65.3
G134.0	8.7	27.9	58.5	72.3	59.0	29.0	8.1	23.5	50.4	63.3
G135.0	8.9	27.0	56.8	70.1	57.2	28.2	8.2	22.8	48.8	61.3
G136.0	9.0	26.1	55.0	67.9	55.3	27.4	8.3	22.3	47.3	59.3
G137.0	9.1	25.3	53.3	65.8	53.6	26.7	8.5	21.7	45.7	57.4
G138.0	9.2	24.5	51.6	63.7	51.8	26.0	8.6	21.1	44.2	55.6
G139.0	9.3	23.7	49.9	61.7	50.2	25.4	8.7	20.6	42.8	53.7
G140.0	9.5	23.0	48.3	59.7	48.5	24.7	8.9	20.0	41.4	51.9
G141.0	9.6	22.3	46.9	57.7	46.9	24.1	9.0	19.5	40.0	50.2
G142.0	9.7	21.7	45.3	55.8	45.3	23.4	9.1	19.1	38.8	48.5
G143.0	9.8	21.2	43.9	53.9	43.9	22.9	9.2	18.7	37.5	46.8
G144.0	9.9	20.8	42.3	52.0	42.3	22.3	9.4	18.2	36.3	45.2
G145.0	10.1	20.4	41.0	50.3	40.9	21.7	9.5	17.8	35.1	43.5
G146.0	10.2	19.9	39.7	48.4	39.4	21.2	9.6	17.4	33.9	41.9
G147.0	10.3	19.6	38.2	46.7	38.2	20.6	9.8	17.0	32.7	40.3

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

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	10.4	19.1	36.4	45.0	36.8	20.1	9.9	16.6	31.5	38.7
G149.0	10.5	18.6	34.8	43.5	35.6	19.6	10.0	16.2	30.4	37.2
G150.0	10.6	18.1	33.3	41.6	34.3	18.8	10.1	15.9	29.3	35.7
G151.0	10.7	17.8	31.9	40.0	33.1	18.5	10.2	15.6	28.1	34.2
G152.0	10.9	17.5	30.5	38.4	31.9	18.1	10.3	15.2	27.1	32.8
G153.0	10.9	17.2	29.1	37.0	30.8	17.7	10.4	14.9	26.0	31.3
G154.0	11.0	16.8	27.9	35.5	29.7	17.3	10.6	14.6	25.0	30.0
G155.0	11.1	16.5	26.6	34.0	28.5	16.9	10.7	14.4	23.9	28.6
G156.0	11.2	16.1	25.4	32.5	27.4	16.5	10.8	14.1	23.0	27.2
G157.0	11.3	15.8	24.5	31.1	26.4	16.1	10.9	13.8	22.0	26.0
G158.0	11.4	15.4	23.6	29.7	25.3	15.8	11.0	13.6	21.1	24.7
G159.0	11.5	15.1	22.8	28.3	24.3	15.5	11.1	13.3	20.1	23.6
G160.0	11.6	14.7	21.9	26.9	23.3	15.1	11.3	13.1	19.3	22.4
G161.0	11.7	14.4	21.1	25.6	22.3	14.8	11.3	12.9	18.4	21.2
G162.0	11.7	14.2	20.3	24.3	21.3	14.5	11.4	12.8	17.6	20.1
G163.0	11.8	14.0	19.5	23.2	20.4	14.2	11.6	12.6	16.8	19.1
G164.0	11.9	13.8	18.7	22.0	19.4	13.9	11.7	12.5	16.1	18.1
G165.0	11.9	13.6	17.9	20.8	18.6	13.7	11.8	12.4	15.5	17.2
G166.0	12.1	13.4	17.2	19.8	17.8	13.5	11.9	12.4	14.9	16.4
G167.0	12.1	13.2	16.5	18.8	17.0	13.2	12.1	12.3	14.3	15.6
G168.0	12.2	13.1	15.8	17.9	16.3	13.0	12.2	12.3	13.8	14.9
G169.0	12.3	12.9	15.2	16.9	15.6	12.9	12.2	12.2	13.4	14.2
G170.0	12.3	12.8	14.6	16.1	15.0	12.7	12.3	12.3	13.1	13.7
G171.0	12.4	12.7	14.1	15.3	14.4	12.6	12.3	12.3	12.8	13.1
G172.0	12.4	12.6	13.7	14.6	13.9	12.6	12.4	12.3	12.6	12.9
G173.0	12.5	12.5	13.4	14.0	13.4	12.5	12.5	12.4	12.5	12.7
G174.0	12.5	12.5	13.1	13.5	13.1	12.4	12.5	12.4	12.4	12.6
G175.0	12.6	12.4	12.8	13.1	12.8	12.4	12.6	12.5	12.4	12.5
G176.0	12.6	12.4	12.6	12.8	12.6	12.4	12.6	12.5	12.4	12.5
G177.0	12.6	12.5	12.5	12.6	12.5	12.4	12.6	12.5	12.4	12.6
G178.0	12.6	12.5	12.4	12.6	12.4	12.5	12.6	12.5	12.4	12.6
G179.0	12.6	12.5	12.4	12.6	12.4	12.4	12.7	12.5	12.4	12.6
G180.0	12.6	12.5	12.4	12.6	12.4	12.5	12.7	12.5	12.5	12.6

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\c	C300.0	C330.0	C360.0							
G0.0	1126.7	1125.5	1132.2							
G1.0	1126.3	1124.6	1131.5							
G2.0	1125.0	1122.9	1129.9							
G3.0	1123.5	1121.1	1127.8							
G4.0	1122.1	1118.8	1125.6							
G5.0	1119.9	1116.0	1121.5							
G6.0	1117.9	1112.5	1118.0							
G7.0	1115.4	1108.2	1113.8							
G8.0	1112.1	1104.2	1108.7							
G9.0	1109.2	1099.2	1102.7							
G10.0	1105.6	1094.2	1097.0							
G11.0	1101.5	1088.4	1089.9							
G12.0	1096.8	1081.5	1082.8							
G13.0	1092.2	1075.0	1074.7							
G14.0	1087.3	1067.4	1065.9							
G15.0	1081.2	1059.8	1057.0							
G16.0	1075.2	1051.3	1047.3							
G17.0	1068.4	1042.8	1037.5							
G18.0	1061.6	1033.8	1026.5							
G19.0	1054.8	1023.6	1015.2							
G20.0	1046.9	1013.9	1003.7							
G21.0	1039.0	1003.1	991.8							
G22.0	1030.7	992.3	978.6							
G23.0	1022.6	980.8	965.7							
G24.0	1013.4	969.0	951.8							
G25.0	1003.6	956.7	937.8							
G26.0	994.0	943.9	923.1							
G27.0	984.2	931.1	908.2							
G28.0	973.9	917.5	893.3							
G29.0	963.5	904.0	877.7							
G30.0	953.2	890.1	861.4							
G31.0	941.3	875.8	845.0							
G32.0	930.3	861.3	828.0							
G33.0	918.7	846.6	811.2							
G34.0	907.0	832.2	794.2							
G35.0	895.2	816.2	776.5							
G36.0	883.4	800.9	758.4							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Candlepower Table (Continue 6)

Unit: cd

G/C	C300.0	C330.0	C360.0							
G37.0	870.6	785.0	740.4							
G38.0	858.2	769.1	722.7							
G39.0	845.4	752.7	704.2							
G40.0	832.7	737.3	685.2							
G41.0	819.5	720.8	667.2							
G42.0	806.7	704.3	648.5							
G43.0	793.1	687.7	630.3							
G44.0	779.8	672.3	611.2							
G45.0	766.0	654.6	592.6							
G46.0	752.5	638.8	573.6							
G47.0	738.9	622.6	555.1							
G48.0	725.2	606.1	536.2							
G49.0	711.8	589.2	517.7							
G50.0	697.6	573.5	499.0							
G51.0	683.4	557.0	480.6							
G52.0	669.5	541.5	462.7							
G53.0	655.1	524.6	444.4							
G54.0	641.7	509.1	426.7							
G55.0	627.4	493.5	409.1							
G56.0	614.0	478.1	391.6							
G57.0	600.0	462.7	374.4							
G58.0	586.5	447.4	357.1							
G59.0	572.4	432.6	340.2							
G60.0	559.0	418.2	323.6							
G61.0	545.2	404.0	307.5							
G62.0	531.7	389.4	291.2							
G63.0	518.7	376.0	275.4							
G64.0	505.2	362.0	260.4							
G65.0	492.4	349.0	244.5							
G66.0	479.3	335.4	229.8							
G67.0	466.9	323.1	215.1							
G68.0	454.1	310.8	200.7							
G69.0	442.0	299.0	186.6							
G70.0	429.8	287.2	173.1							
G71.0	417.8	276.0	159.5							
G72.0	405.9	264.7	146.6							
G73.0	394.8	254.1	134.1							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Candlepower Table (Continue 7)

Unit: cd

G/C	C300.0	C330.0	C360.0							
G74.0	383.1	243.6	121.3							
G75.0	372.0	233.6	109.6							
G76.0	361.0	223.7	97.7							
G77.0	350.6	214.3	86.6							
G78.0	339.5	205.3	75.9							
G79.0	329.2	196.7	65.5							
G80.0	319.2	188.1	56.1							
G81.0	309.4	180.4	46.7							
G82.0	299.9	172.6	38.6							
G83.0	290.1	165.1	30.6							
G84.0	280.9	158.0	23.5							
G85.0	272.1	151.2	17.3							
G86.0	262.9	144.5	12.1							
G87.0	254.6	138.3	8.0							
G88.0	246.1	132.5	5.0							
G89.0	238.1	126.8	3.6							
G90.0	230.2	121.3	3.2							
G91.0	222.9	116.1	3.1							
G92.0	215.3	111.0	3.2							
G93.0	208.1	106.1	3.4							
G94.0	200.6	101.4	3.4							
G95.0	194.1	97.1	3.6							
G96.0	187.3	92.7	3.7							
G97.0	180.8	88.7	3.8							
G98.0	174.6	84.8	4.0							
G99.0	168.6	81.3	4.1							
G100.0	162.6	77.7	4.2							
G101.0	157.2	74.3	4.3							
G102.0	151.5	71.2	4.5							
G103.0	146.5	68.2	4.6							
G104.0	138.8	65.3	4.8							
G105.0	130.1	62.7	4.8							
G106.0	122.5	59.7	5.0							
G107.0	116.7	56.4	5.1							
G108.0	112.8	52.9	5.3							
G109.0	109.3	49.6	5.4							
G110.0	106.0	46.7	5.6							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Candlepower Table (Continue 8)

Unit: cd

G/C	C300.0	C330.0	C360.0							
G111.0	102.7	44.2	5.7							
G112.0	99.7	43.0	5.8							
G113.0	96.4	41.5	6.0							
G114.0	93.4	40.2	6.1							
G115.0	90.4	38.9	6.3							
G116.0	87.6	37.8	6.4							
G117.0	84.8	36.8	6.5							
G118.0	82.1	35.9	6.7							
G119.0	79.4	35.1	6.8							
G120.0	76.9	34.2	6.9							
G121.0	74.5	33.2	7.0							
G122.0	72.2	32.4	7.2							
G123.0	70.1	31.5	7.3							
G124.0	68.1	30.7	7.4							
G125.0	66.0	29.9	7.6							
G126.0	64.1	29.2	7.7							
G127.0	62.2	28.3	7.8							
G128.0	60.4	27.3	8.0							
G129.0	58.6	26.2	8.1							
G130.0	56.8	25.1	8.2							
G131.0	55.1	24.0	8.4							
G132.0	53.5	23.1	8.4							
G133.0	51.9	22.5	8.6							
G134.0	50.3	21.8	8.7							
G135.0	48.8	21.1	8.9							
G136.0	47.3	20.2	9.0							
G137.0	45.8	19.4	9.1							
G138.0	44.4	18.9	9.2							
G139.0	43.0	18.5	9.3							
G140.0	41.7	18.0	9.5							
G141.0	40.4	17.6	9.6							
G142.0	39.0	17.3	9.7							
G143.0	37.3	16.9	9.8							
G144.0	35.5	16.6	9.9							
G145.0	34.2	16.3	10.1							
G146.0	32.7	16.1	10.2							
G147.0	30.8	15.8	10.3							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector:

Candlepower Table (Continue 9)

Unit: cd

G/C	C300.0	C330.0	C360.0							
G148.0	29.3	15.6	10.4							
G149.0	27.9	15.3	10.5							
G150.0	27.0	15.1	10.6							
G151.0	25.3	14.9	10.7							
G152.0	23.8	14.6	10.9							
G153.0	22.5	14.4	10.9							
G154.0	21.3	14.1	11.0							
G155.0	20.4	13.8	11.1							
G156.0	19.7	13.5	11.2							
G157.0	19.3	13.3	11.3							
G158.0	18.8	13.1	11.4							
G159.0	18.0	12.9	11.5							
G160.0	17.4	12.8	11.6							
G161.0	17.0	12.6	11.7							
G162.0	16.5	12.5	11.7							
G163.0	15.9	12.4	11.8							
G164.0	15.4	12.3	11.9							
G165.0	14.9	12.3	11.9							
G166.0	14.4	12.2	12.1							
G167.0	13.9	12.2	12.1							
G168.0	13.5	12.2	12.2							
G169.0	13.1	12.2	12.3							
G170.0	12.9	12.2	12.3							
G171.0	12.7	12.2	12.4							
G172.0	12.6	12.3	12.4							
G173.0	12.5	12.3	12.5							
G174.0	12.4	12.3	12.5							
G175.0	12.4	12.4	12.6							
G176.0	12.4	12.4	12.6							
G177.0	12.4	12.4	12.6							
G178.0	12.4	12.4	12.6							
G179.0	12.4	12.4	12.6							
G180.0	12.4	12.5	12.6							

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 23

Operator: MEI

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.580 m

Humidity: 88

Inspector: