

Report No.:

Test Time: 2022/8/20 09:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 490689 LED-MF-20W-3000K-12V

Voltage: 11.7 V

Current: 1.907 A

Power: 19.04 W

Power Factor: 0.849

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 2355.3 lm

Measurement Flux: 2355.3 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Horizontal Diffuse Angle(10%,50%,75%,100%): H142,H89.6,H66.1,H1

Vertical Diffuse Angle(10%,50%,75%,100%): V155.1,V101.7,V76.5,V6

Luminaire Efficacy Rating (LER): 123.75

Central Intensity: 1009.2 cd

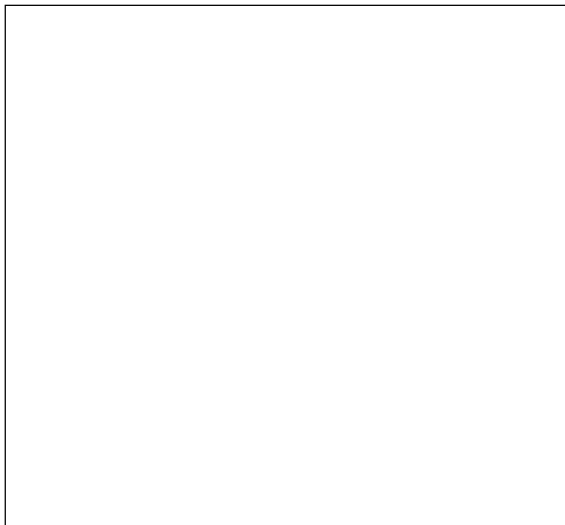
Max. Intensity: 1009.66 cd

Pos of Max. Intensity: H180 V1

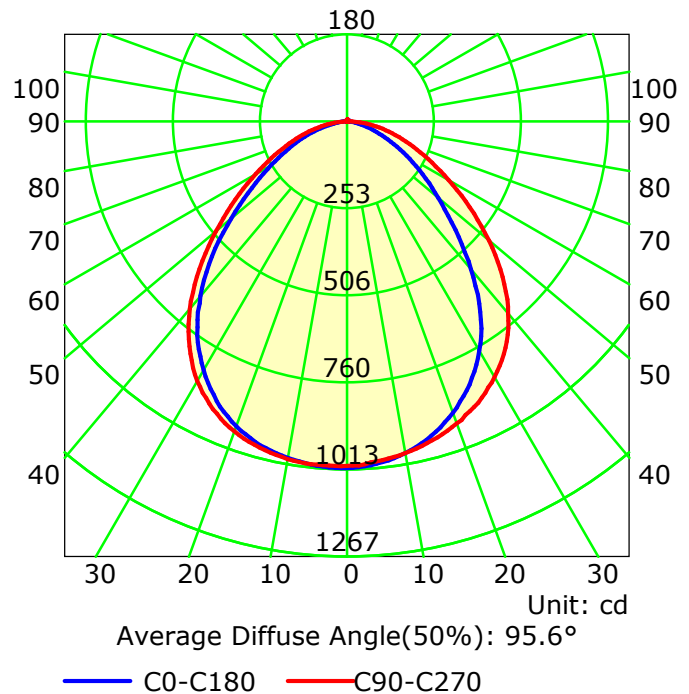
S/MH(C0/C180): 1.19

S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Gamma Plane (°):0.0-180.0:1.0

Test Lab:

Test Device: GPM-1800B

Test Type: TYPE C

Distance: 11.655 m [K=1.0000]

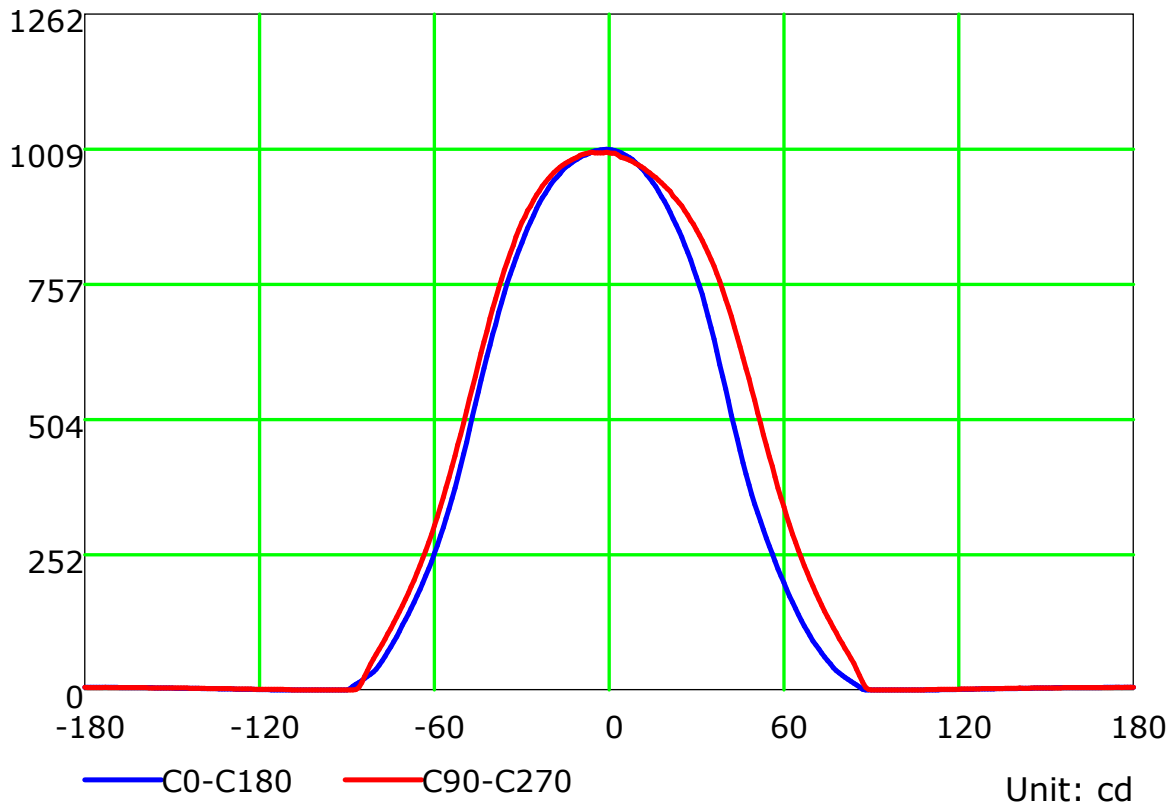
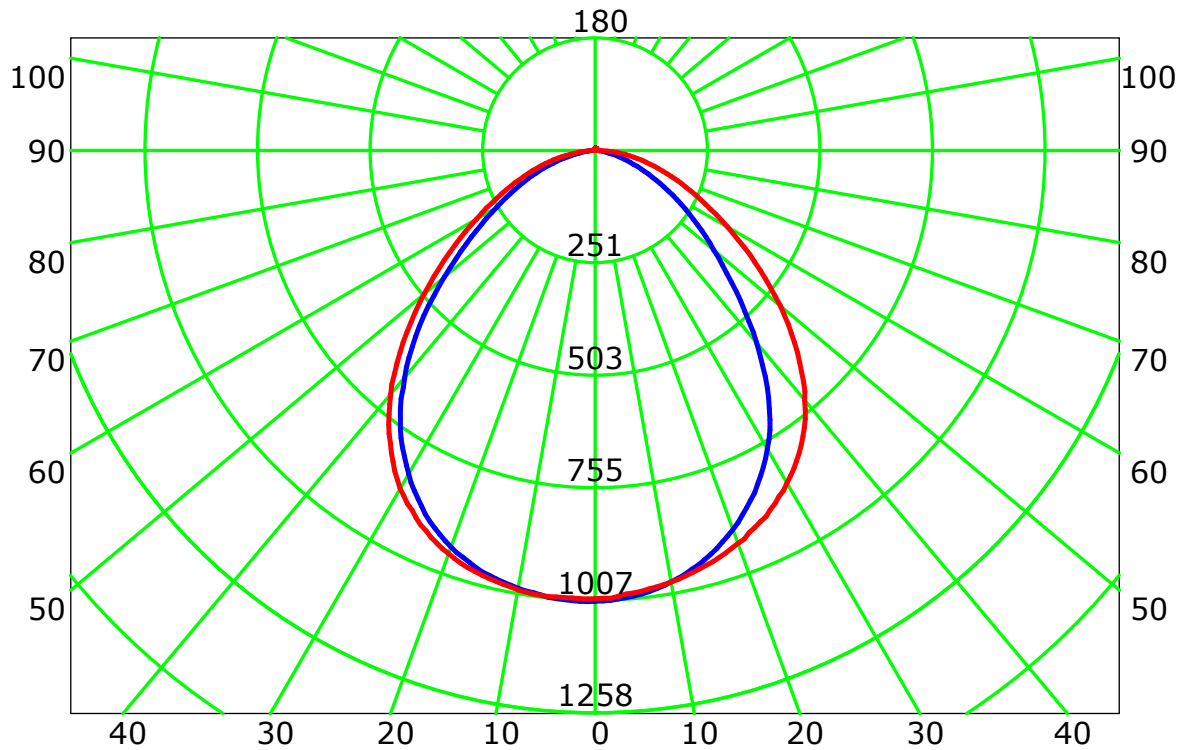
Temperature:

Humidity:

Operator:

Inspector:

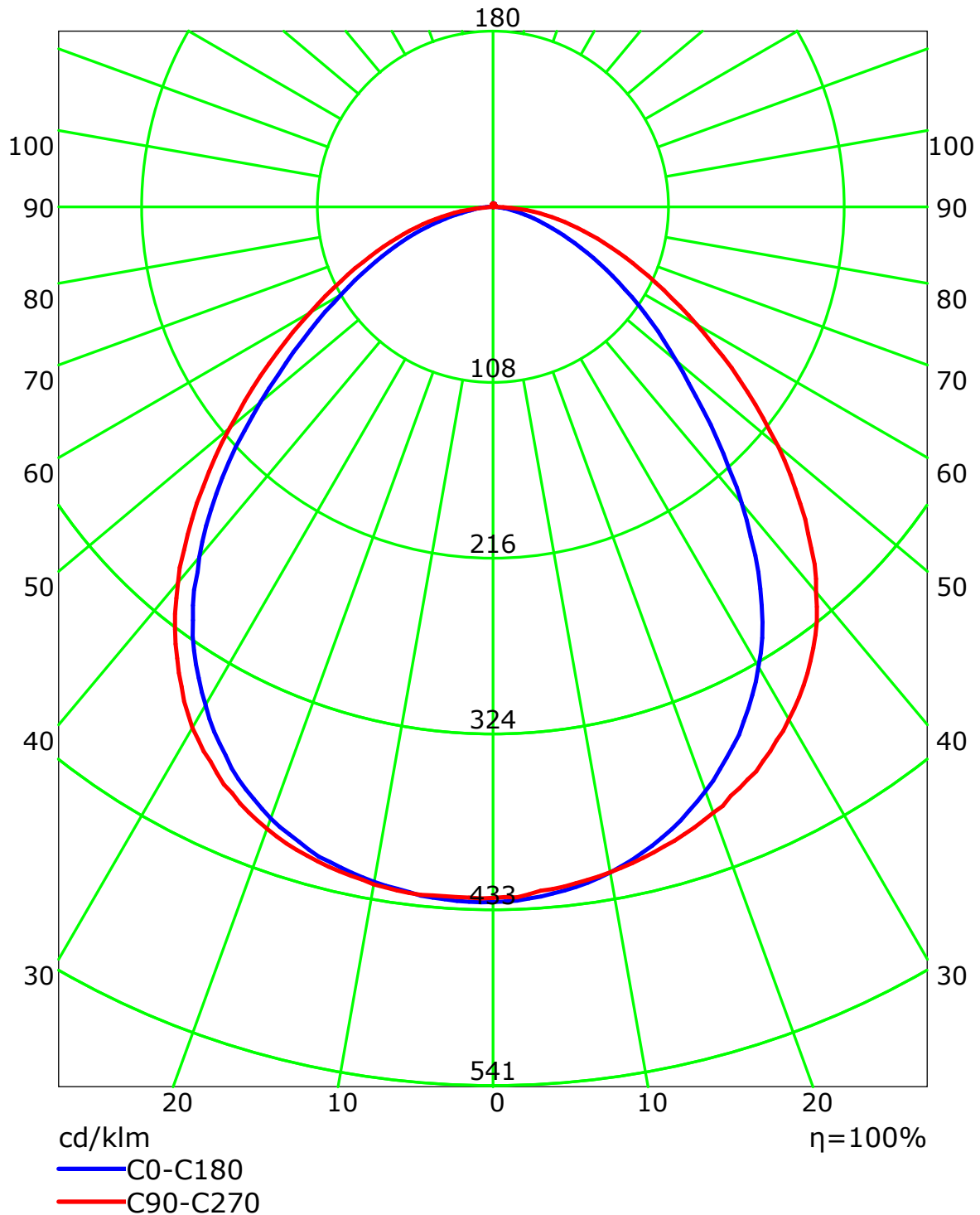
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



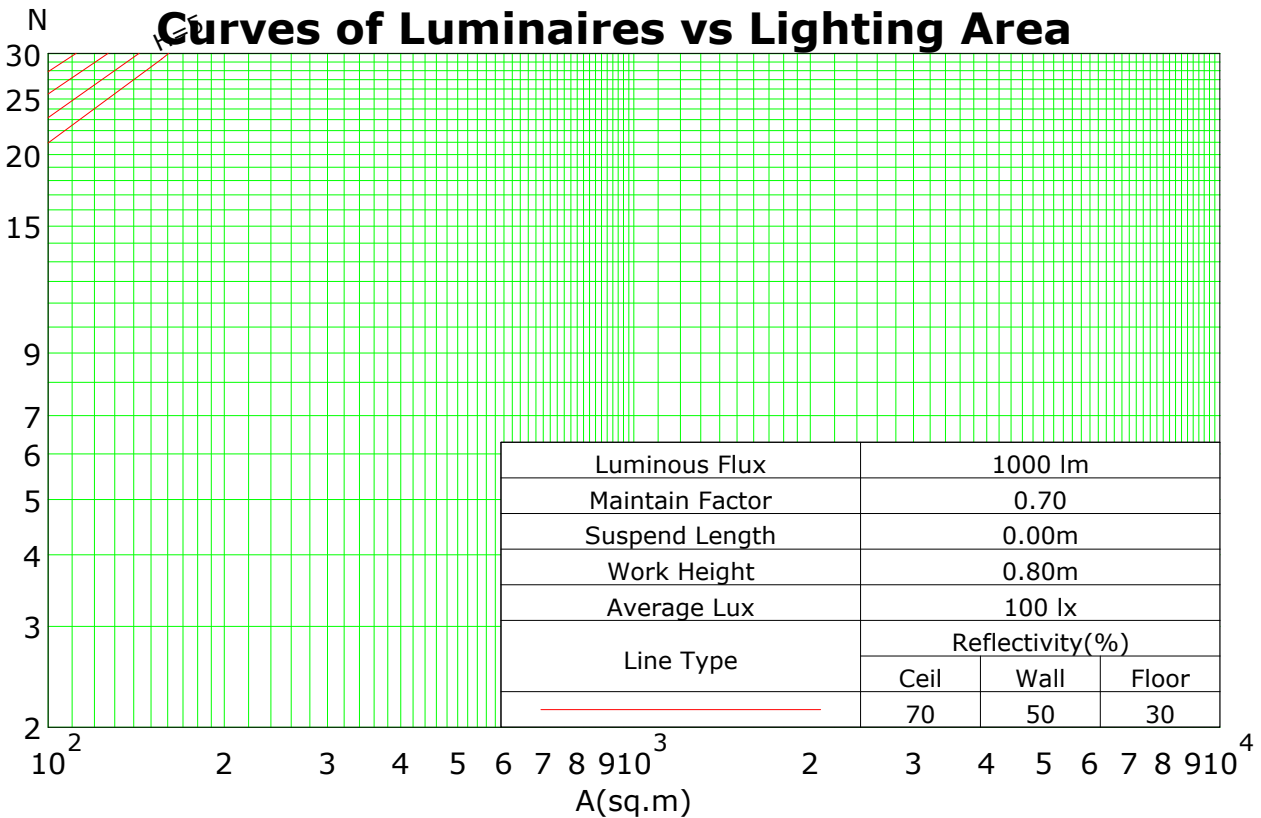
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

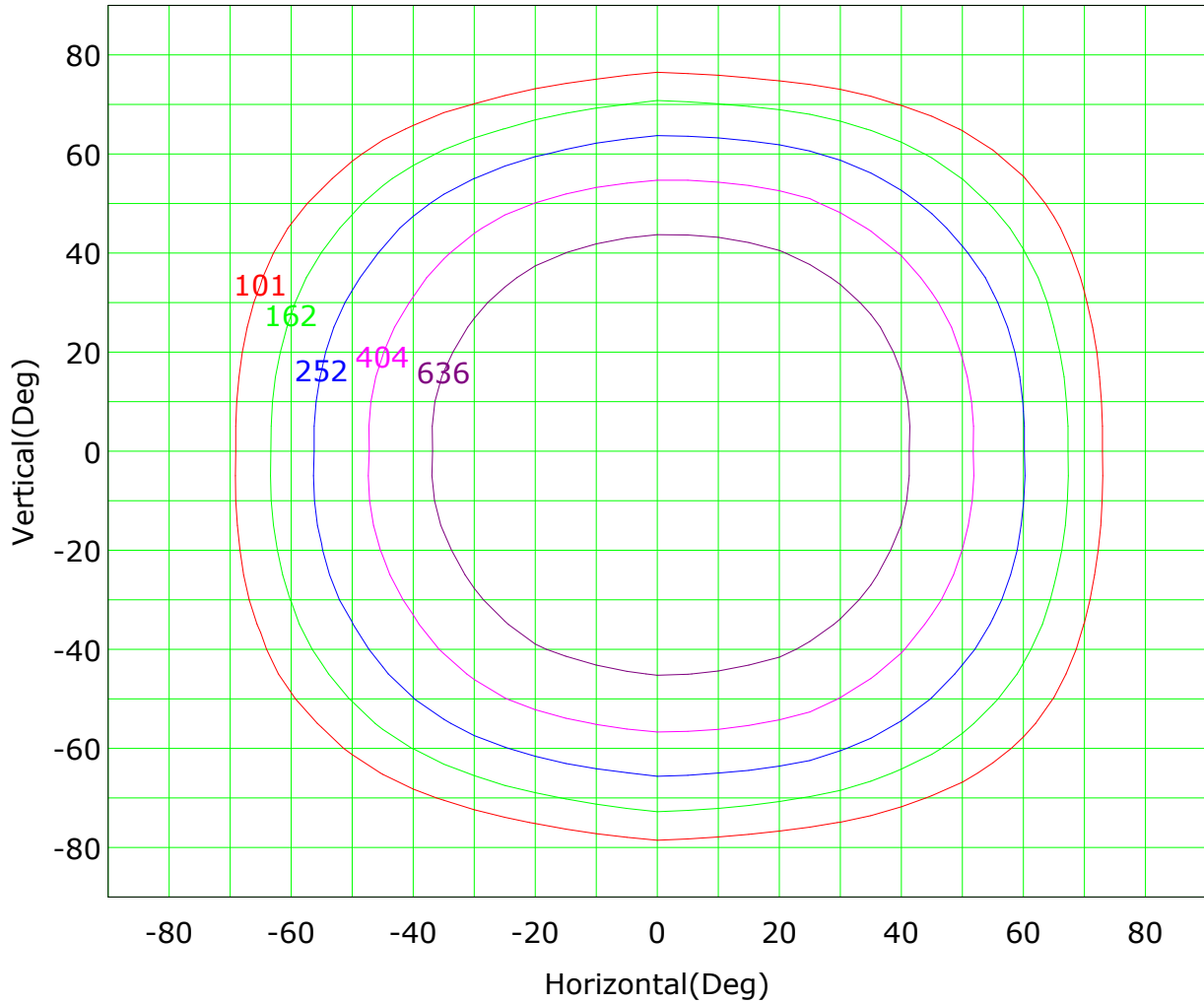
Spacing Criteria (0-180): 1.19
 Spacing Criteria (90-270): 1.27
 Spacing Criteria (Diagonal): 1.30



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Isocandela (rectangle)



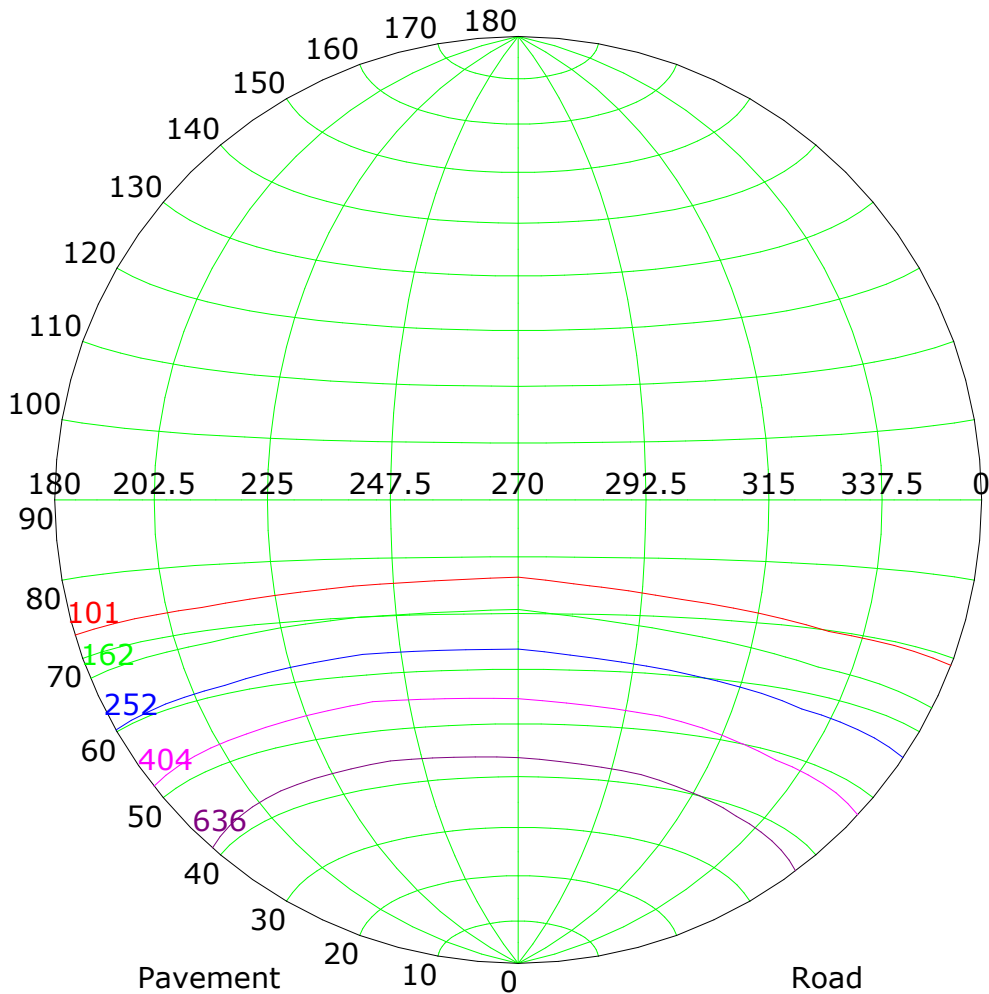
Imax (100%): 1010 cd

— (10%): 101 cd	— (16%): 162 cd
— (25%): 252 cd	— (40%): 404 cd
— (63%): 636 cd	— (100%): 1010 cd

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Isocandela (sphere)



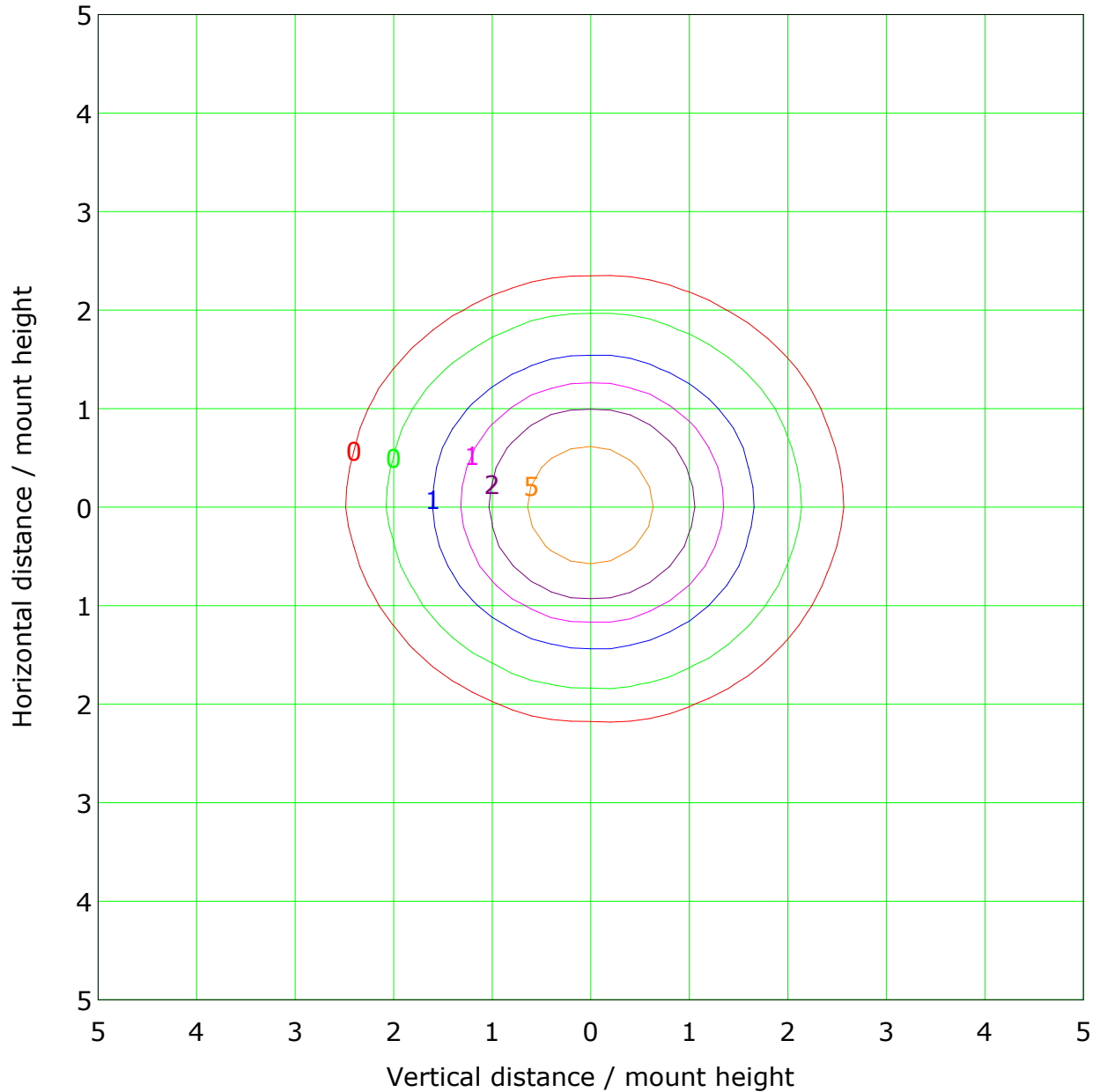
Imax (100%): 1010 cd

— (10%): 101 cd	— (16%): 162 cd
— (25%): 252 cd	— (40%): 404 cd
— (63%): 636 cd	— (100%): 1010 cd

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 10.1 lx

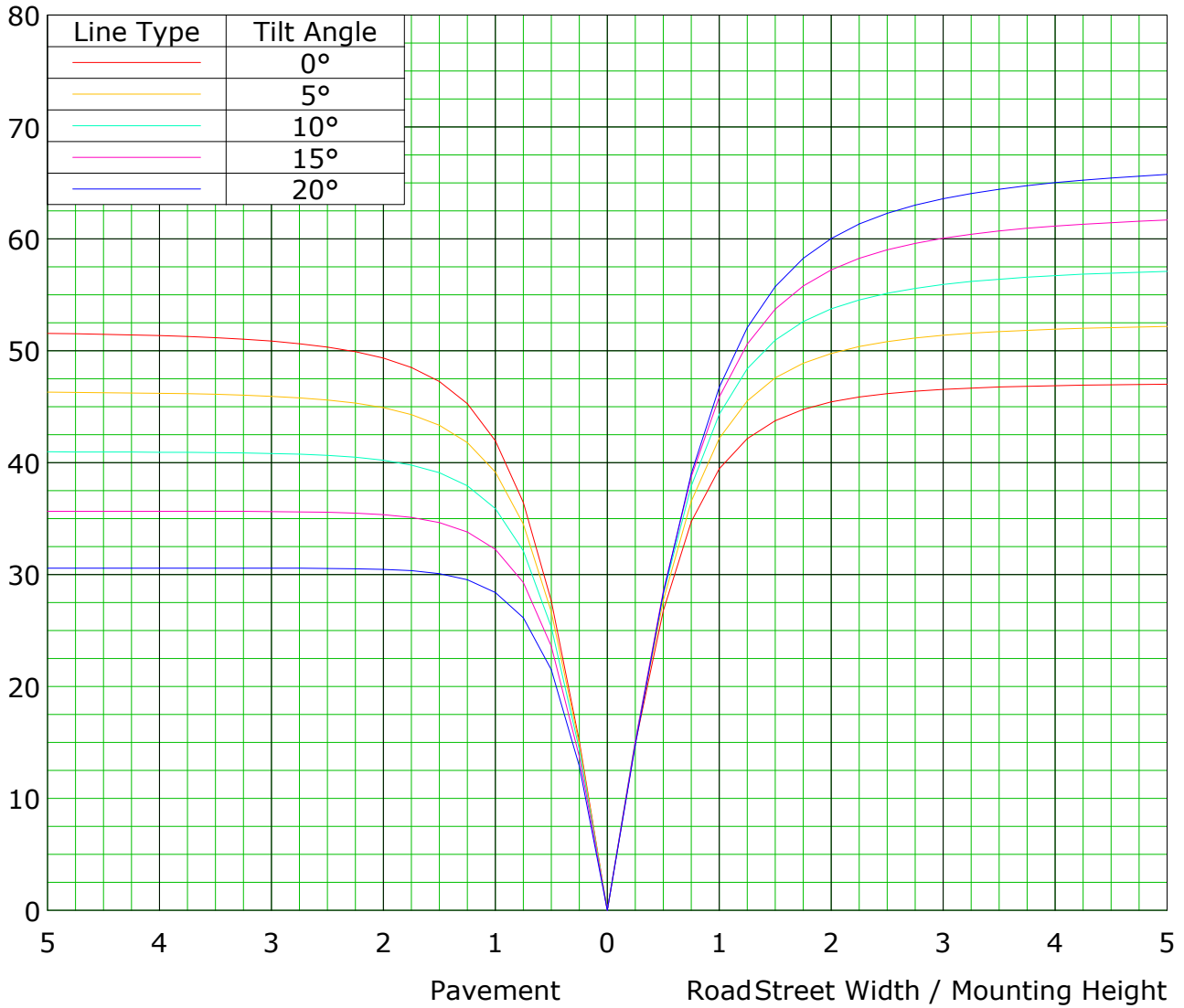
— (1%): 0.1 lx	— (2%): 0.2 lx
— (5%): 0.5 lx	— (10%): 1.0 lx
— (20%): 2.0 lx	— (50%): 5.0 lx
— (100%): 10.1 lx	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Roadway CU Curve

Efficiency(%)

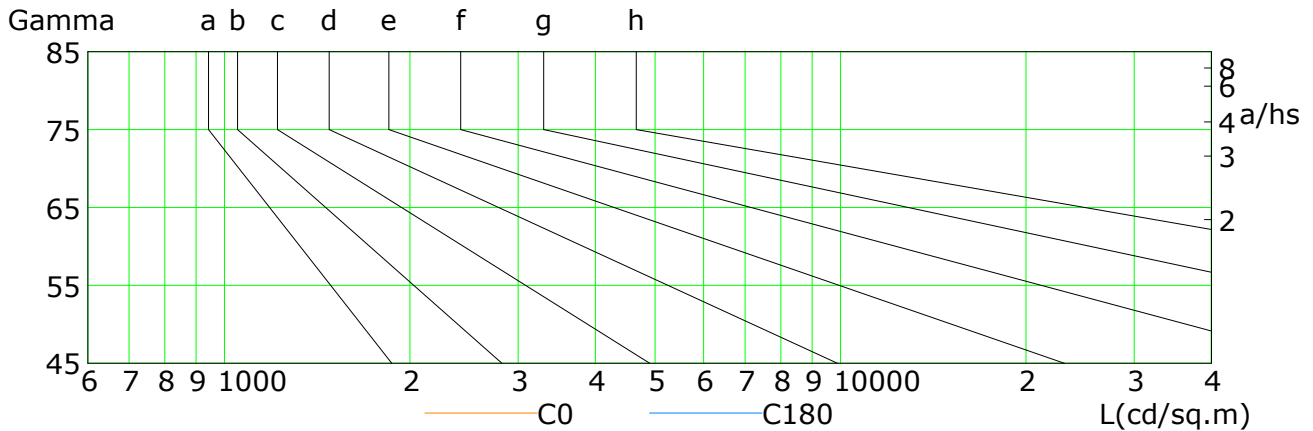
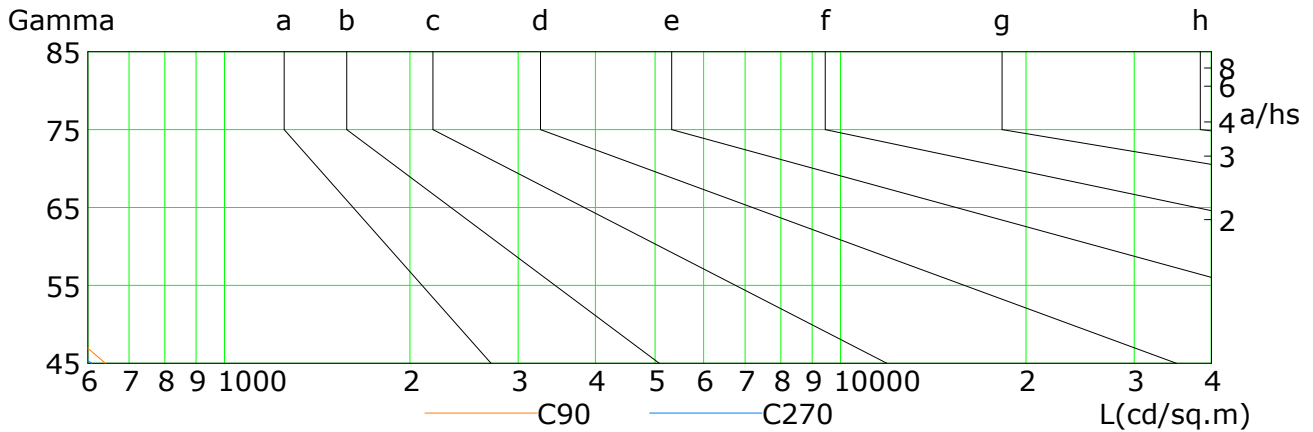


C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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

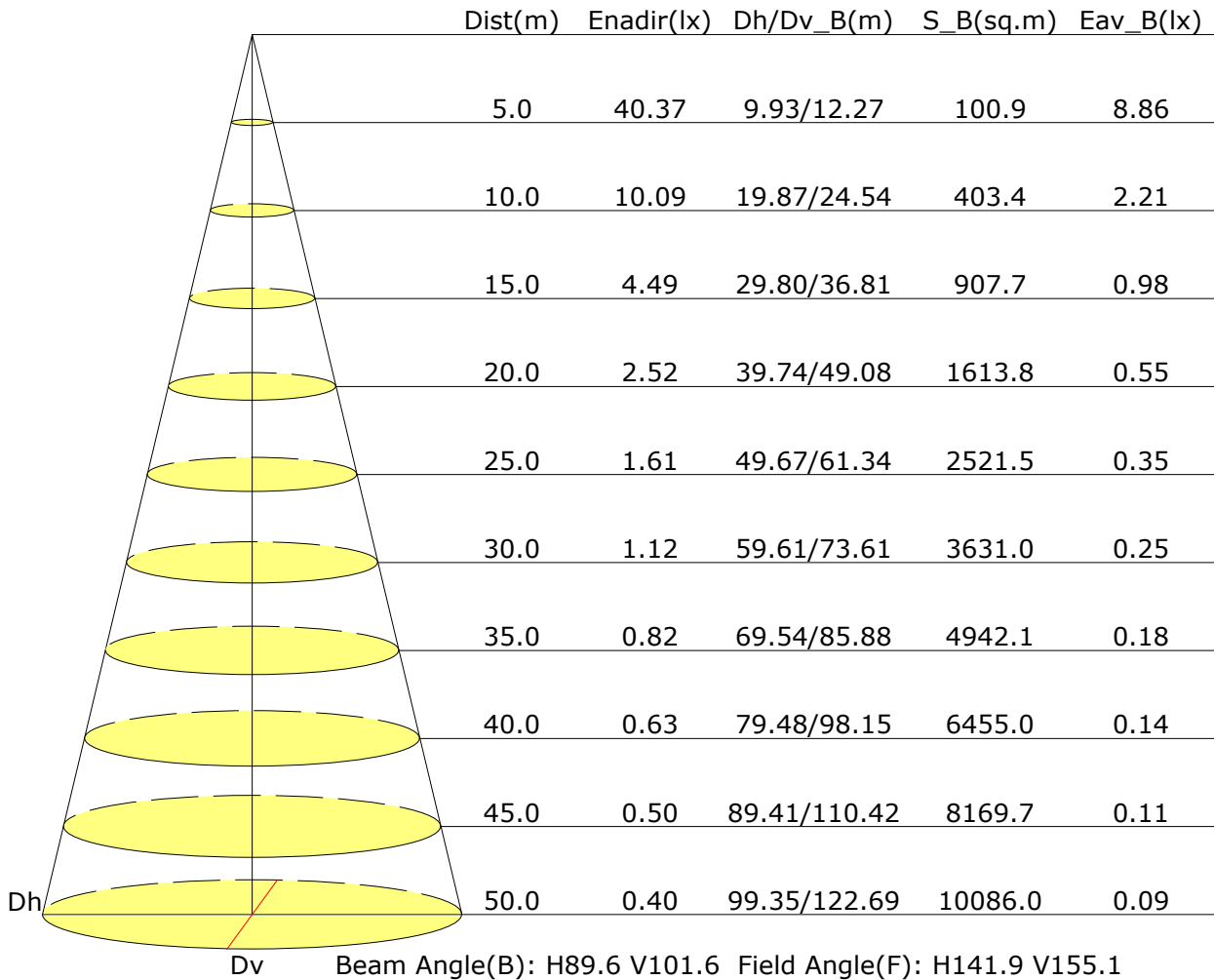


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	447	347	269	200	141	92	55	28	10
C90	641	541	436	342	261	195	137	87	39
C180	557	441	338	255	188	132	81	39	18
C270	609	499	397	307	233	170	115	67	14

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

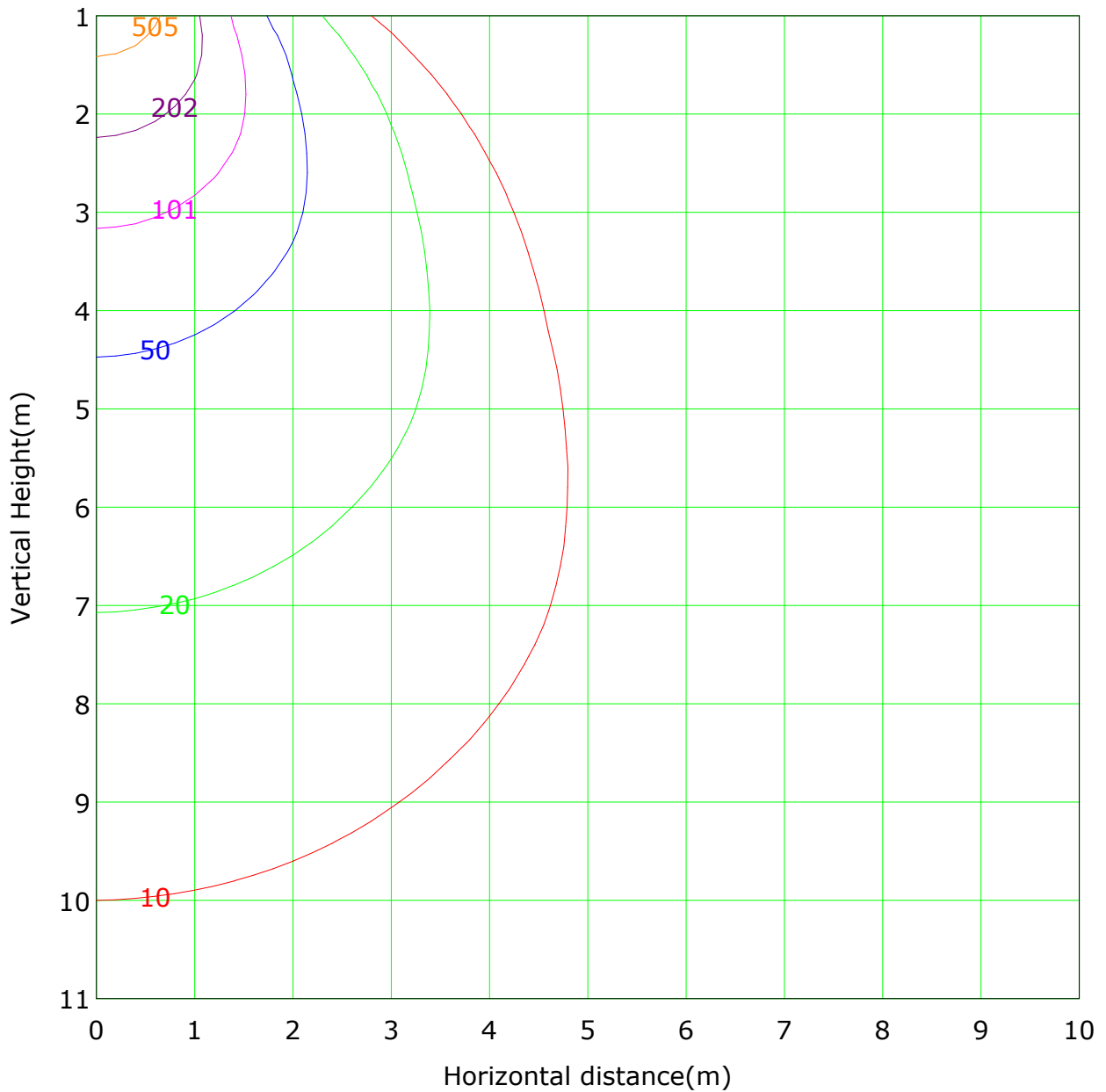
Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1009.2 lx
 (1%): 10.1 lx (2%): 20.2 lx
 (5%): 50.5 lx (10%): 100.9 lx
 (20%): 201.8 lx (50%): 504.6 lx
 (100%):1009.2 lx

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Area Flux Table

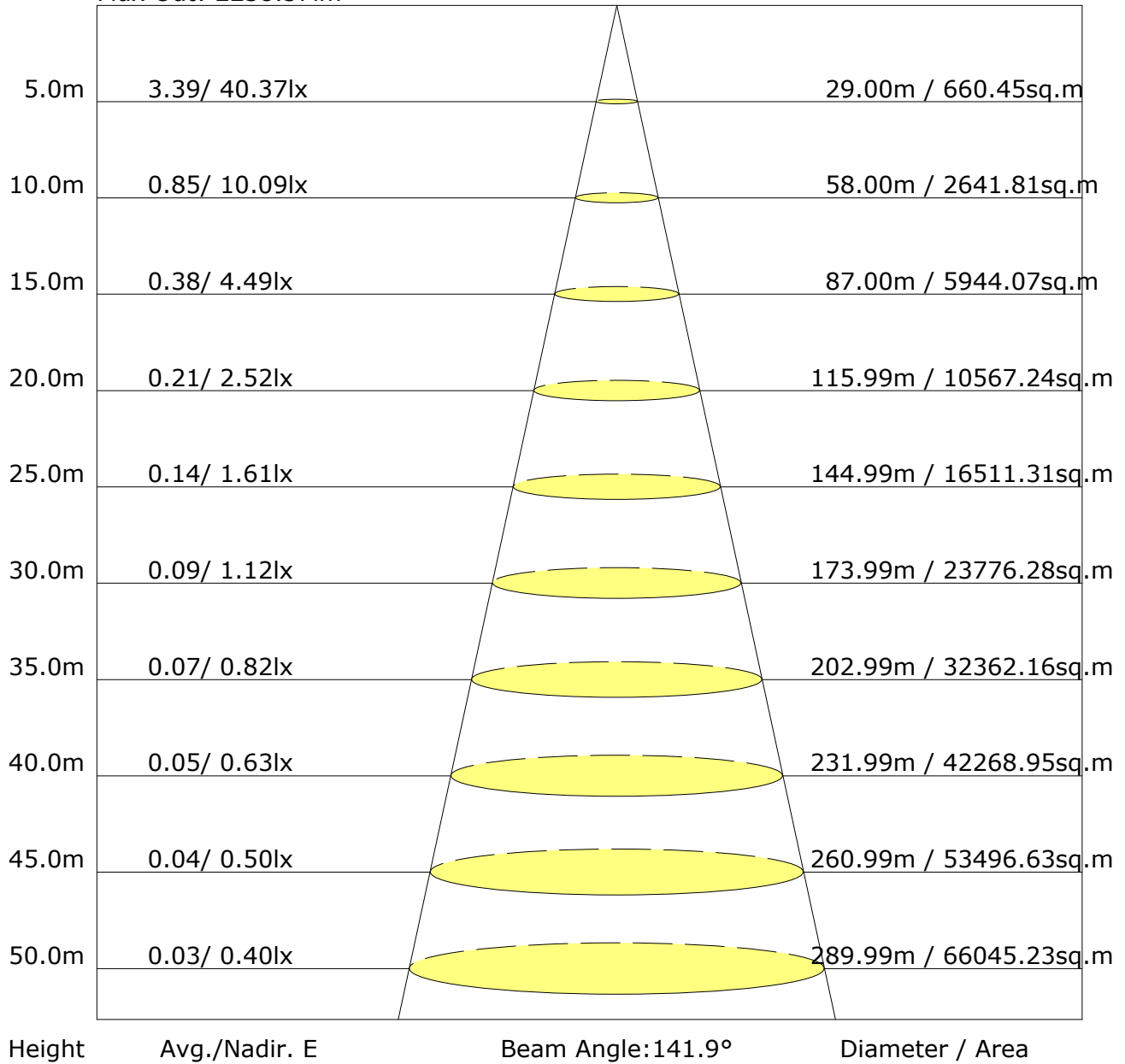
		Vertical plane																		Flux(T) Flux(E)		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	00	10	20	30	40	50	60	70	80			90
Horizontal plane	Flux(E)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	
	Flux(E)	0.0	1.6	20.4	54.7	109.8	177.8	240.4	284.6	305.8	301.5	271.0	218.9	152.1	86.7	40.7	11.7	0.0	0.0		2278	
	Flux(E)	0.0	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0	7.4	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	
	Flux(E)	0.0	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0	7.4	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	
	Flux(E)	0.0	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0	7.4	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	
	Flux(E)	0.0	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0	7.4	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	
	Flux(E)	0.0	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0	7.4	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	
	Flux(E)	0.0	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.1	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0	0.0	7.4	0.0	0.0
	Flux(T)	0.7	7.0	24.9	58.7	113.6	181.4	244.0	287.9	309.1	304.9	274.5	222.5	156.0	90.9	45.2	17.8	4.5	0.4	2344	2278	

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

The Average Illuminance Effective Figure

Flux Out: 2238.57lm



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

UGR Table

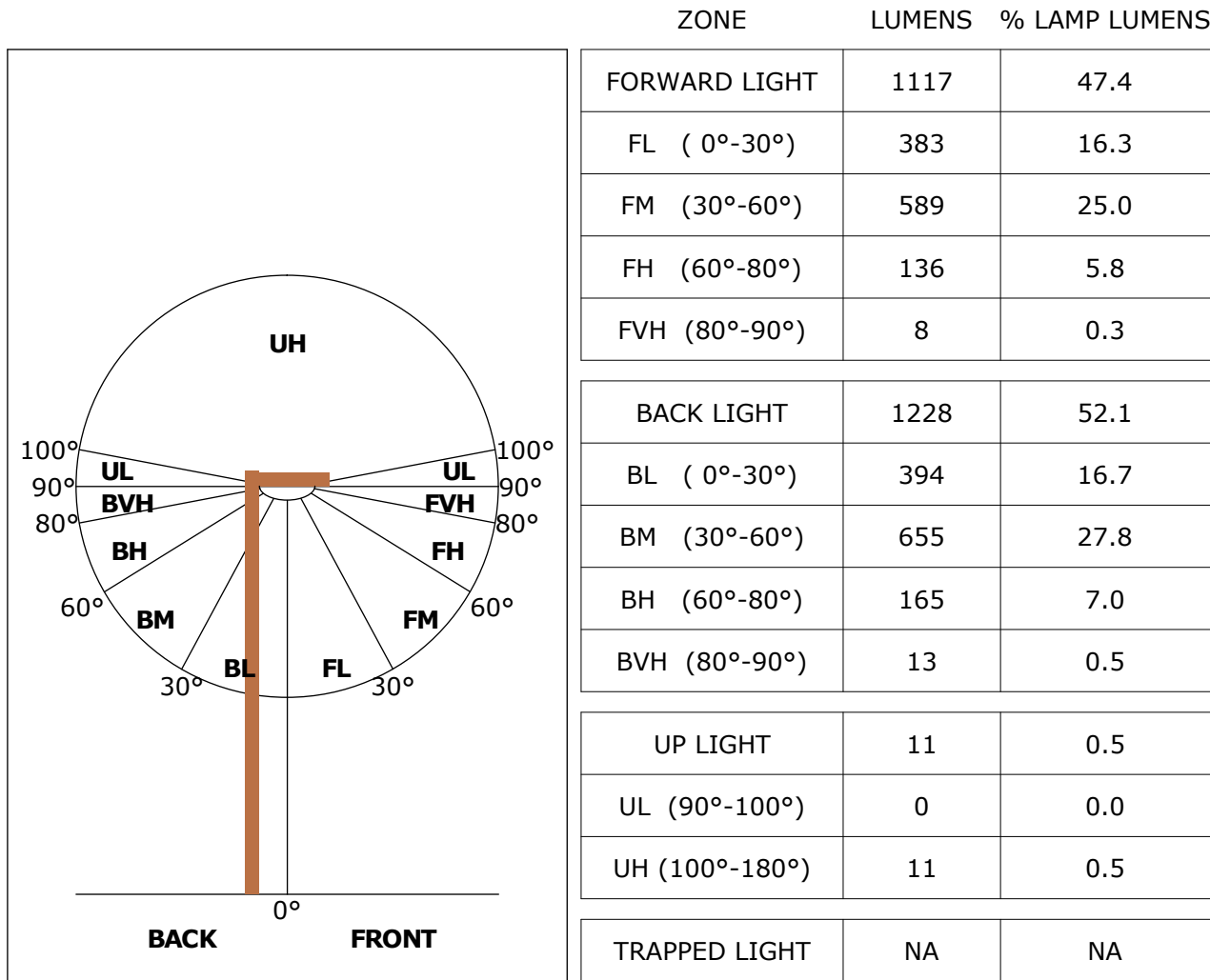
Reflectance:											
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:											
S=1.0H											-1.\$/-1.\$
S=1.5H											-1.\$/-1.\$
S=2.0H											-1.\$/-1.\$

Calculate in accordance with CIE Pub.117. The table is revised with 2355lm ($8\log(F/F_0) = 3.0$).

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

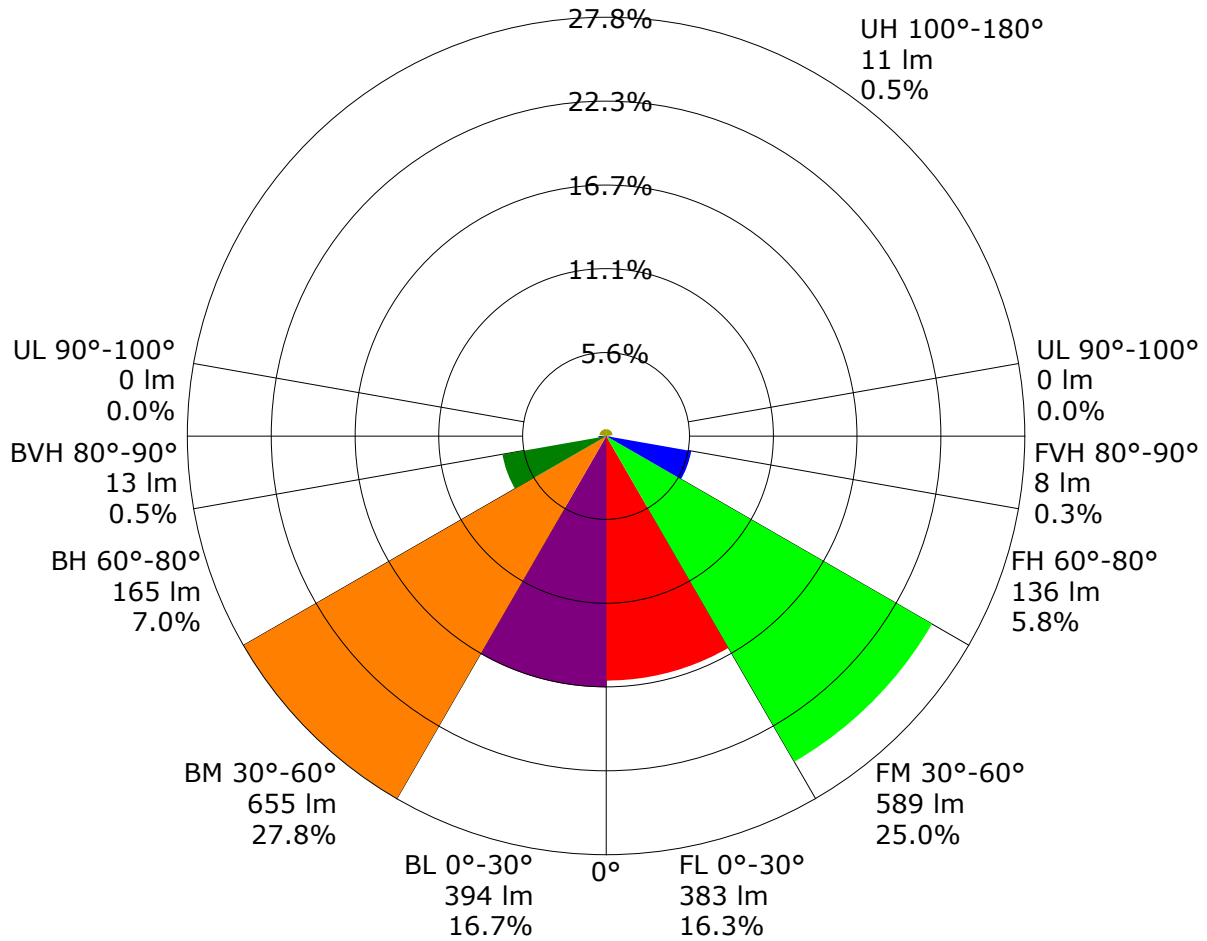


BUG(Backlight, Uplight, Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%
Trapped Light:NA,NA

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

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
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	0.63	0.73	0.80	0.85	0.91	0.96	0.99	1.03	1.05	
	0.30		0.55	0.66	0.73	0.78	0.86	0.91	0.94	0.99	1.02	
	0.20		0.50	0.61	0.68	0.74	0.81	0.87	0.91	0.96	1.00	
0.50	0.50	0.20	0.61	0.71	0.77	0.82	0.88	0.92	0.95	0.99	1.01	
	0.30		0.55	0.65	0.72	0.77	0.84	0.88	0.91	0.96	0.99	
	0.20		0.50	0.60	0.67	0.72	0.80	0.85	0.88	0.93	0.96	
0.30	0.50	0.20	0.60	0.69	0.75	0.79	0.85	0.89	0.92	0.95	0.97	
	0.30		0.54	0.64	0.70	0.75	0.81	0.86	0.89	0.93	0.95	
	0.20		0.50	0.59	0.66	0.71	0.78	0.83	0.86	0.91	0.93	
0.00	0.00	0.00	0.47	0.57	0.64	0.68	0.75	0.79	0.82	0.86	0.89	
<p>Rating:19W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 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	0.91	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.19	
	0.30		0.76	0.63	0.54	0.48	0.38	0.32	0.28	0.22	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.87	0.71	0.59	0.51	0.40	0.37	0.28	0.22	0.18	
	0.30		0.74	0.61	0.52	0.46	0.37	0.31	0.26	0.21	0.17	
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.20	0.16	
0.30	0.50	0.20	0.85	0.68	0.57	0.49	0.38	0.31	0.27	0.20	0.17	
	0.30		0.72	0.60	0.51	0.44	0.35	0.29	0.25	0.20	0.16	
	0.20		0.63	0.53	0.46	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.52	0.43	0.36	0.31	0.25	0.21	0.18	0.14	0.11	
<p>Rating:19W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 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	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Rating:19W 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:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 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	1003.6	1.0	1.0	0.04	0.04
1.0-2.0	1003.2	2.9	3.8	0.12	0.16
2.0-3.0	1002.5	4.8	8.6	0.20	0.37
3.0-4.0	1001.4	6.7	15.3	0.28	0.65
4.0-5.0	999.9	8.6	23.9	0.37	1.02
5.0-6.0	998.2	10.5	34.4	0.45	1.46
6.0-7.0	996.2	12.4	46.8	0.53	1.99
7.0-8.0	993.6	14.2	61.0	0.60	2.59
8.0-9.0	990.9	16.1	77.1	0.68	3.27
9.0-10.0	987.7	17.9	95.0	0.76	4.03
10.0-11.0	984.2	19.7	114.6	0.84	4.87
11.0-12.0	980.6	21.4	136.1	0.91	5.78
12.0-13.0	976.6	23.2	159.2	0.98	6.76
13.0-14.0	972.2	24.9	184.1	1.06	7.82
14.0-15.0	967.4	26.6	210.7	1.13	8.95
15.0-16.0	962.3	28.2	238.9	1.20	10.14
16.0-17.0	956.7	29.8	268.7	1.27	11.41
17.0-18.0	950.7	31.3	300.0	1.33	12.74
18.0-19.0	944.3	32.9	332.9	1.40	14.13
19.0-20.0	937.4	34.3	367.2	1.46	15.59
20.0-21.0	930.3	35.7	402.9	1.52	17.11
21.0-22.0	922.4	37.1	440.0	1.57	18.68
22.0-23.0	913.8	38.3	478.4	1.63	20.31
23.0-24.0	905.3	39.6	517.9	1.68	21.99
24.0-25.0	896.6	40.8	558.7	1.73	23.72
25.0-26.0	886.7	41.9	600.6	1.78	25.50
26.0-27.0	876.2	42.9	643.5	1.82	27.32
27.0-28.0	865.6	43.8	687.3	1.86	29.18
28.0-29.0	854.3	44.7	732.0	1.90	31.08
29.0-30.0	842.2	45.5	777.5	1.93	33.01
30.0-31.0	829.5	46.2	823.6	1.96	34.97
31.0-32.0	816.4	46.8	870.4	1.99	36.96
32.0-33.0	802.7	47.3	917.7	2.01	38.96
33.0-34.0	788.4	47.7	965.4	2.03	40.99
34.0-35.0	773.0	48.0	1013.4	2.04	43.03
35.0-36.0	756.9	48.2	1061.6	2.05	45.08

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 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	740.4	48.3	1109.9	2.05	47.13
37.0-38.0	722.9	48.3	1158.2	2.05	49.17
38.0-39.0	704.3	48.1	1206.3	2.04	51.22
39.0-40.0	685.4	47.8	1254.1	2.03	53.25
40.0-41.0	666.5	47.5	1301.5	2.02	55.26
41.0-42.0	646.4	47.0	1348.5	1.99	57.26
42.0-43.0	625.4	46.3	1394.8	1.97	59.22
43.0-44.0	604.4	45.6	1440.5	1.94	61.16
44.0-45.0	583.6	44.9	1485.3	1.90	63.06
45.0-46.0	562.2	44.0	1529.3	1.87	64.93
46.0-47.0	540.2	43.0	1572.3	1.82	66.76
47.0-48.0	518.7	41.9	1614.2	1.78	68.54
48.0-49.0	497.5	40.9	1655.1	1.73	70.27
49.0-50.0	476.1	39.7	1694.8	1.69	71.96
50.0-51.0	454.5	38.5	1733.2	1.63	73.59
51.0-52.0	433.5	37.2	1770.4	1.58	75.17
52.0-53.0	413.4	36.0	1806.4	1.53	76.70
53.0-54.0	393.7	34.7	1841.1	1.47	78.17
54.0-55.0	373.9	33.4	1874.5	1.42	79.59
55.0-56.0	354.7	32.1	1906.5	1.36	80.95
56.0-57.0	336.5	30.8	1937.3	1.31	82.25
57.0-58.0	318.7	29.5	1966.8	1.25	83.51
58.0-59.0	301.2	28.2	1994.9	1.20	84.70
59.0-60.0	284.6	26.9	2021.8	1.14	85.84
60.0-61.0	268.8	25.7	2047.5	1.09	86.93
61.0-62.0	253.3	24.4	2071.9	1.04	87.97
62.0-63.0	238.3	23.2	2095.1	0.98	88.95
63.0-64.0	223.8	22.0	2117.0	0.93	89.89
64.0-65.0	210.0	20.8	2137.8	0.88	90.77
65.0-66.0	196.9	19.7	2157.5	0.83	91.60
66.0-67.0	184.0	18.5	2176.0	0.79	92.39
67.0-68.0	171.5	17.4	2193.3	0.74	93.13
68.0-69.0	159.8	16.3	2209.6	0.69	93.82
69.0-70.0	148.6	15.3	2224.9	0.65	94.47
70.0-71.0	137.4	14.2	2239.1	0.60	95.07
71.0-72.0	126.6	13.2	2252.3	0.56	95.63

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	116.4	12.2	2264.5	0.52	96.15
73.0-74.0	106.6	11.2	2275.7	0.48	96.62
74.0-75.0	96.8	10.2	2285.9	0.43	97.06
75.0-76.0	87.3	9.3	2295.2	0.39	97.45
76.0-77.0	78.4	8.4	2303.5	0.35	97.80
77.0-78.0	69.6	7.5	2311.0	0.32	98.12
78.0-79.0	61.0	6.6	2317.5	0.28	98.40
79.0-80.0	52.9	5.7	2323.3	0.24	98.64
80.0-81.0	45.4	4.9	2328.2	0.21	98.85
81.0-82.0	38.3	4.2	2332.3	0.18	99.03
82.0-83.0	31.6	3.4	2335.8	0.15	99.17
83.0-84.0	25.4	2.8	2338.5	0.12	99.29
84.0-85.0	19.5	2.1	2340.7	0.09	99.38
85.0-86.0	14.1	1.5	2342.2	0.07	99.45
86.0-87.0	9.2	1.0	2343.2	0.04	99.49
87.0-88.0	5.3	0.6	2343.8	0.02	99.51
88.0-89.0	2.7	0.3	2344.1	0.01	99.53
89.0-90.0	1.0	0.1	2344.2	0.00	99.53
90.0-91.0	0.2	0.0	2344.2	0.00	99.53
91.0-92.0	0.0	0.0	2344.2	0.00	99.53
92.0-93.0	0.0	0.0	2344.2	0.00	99.53
93.0-94.0	0.0	0.0	2344.2	0.00	99.53
94.0-95.0	0.0	0.0	2344.2	0.00	99.53
95.0-96.0	0.0	0.0	2344.2	0.00	99.53
96.0-97.0	0.0	0.0	2344.2	0.00	99.53
97.0-98.0	0.0	0.0	2344.2	0.00	99.53
98.0-99.0	0.0	0.0	2344.2	0.00	99.53
99.0-100.0	0.0	0.0	2344.2	0.00	99.53
100.0-101.0	0.0	0.0	2344.2	0.00	99.53
101.0-102.0	0.0	0.0	2344.2	0.00	99.53
102.0-103.0	0.0	0.0	2344.2	0.00	99.53
103.0-104.0	0.0	0.0	2344.2	0.00	99.53
104.0-105.0	0.0	0.0	2344.2	0.00	99.53
105.0-106.0	0.0	0.0	2344.2	0.00	99.53
106.0-107.0	0.0	0.0	2344.2	0.00	99.53
107.0-108.0	0.1	0.0	2344.2	0.00	99.53

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	0.2	0.0	2344.2	0.00	99.53
109.0-110.0	0.3	0.0	2344.3	0.00	99.53
110.0-111.0	0.4	0.0	2344.3	0.00	99.54
111.0-112.0	0.5	0.1	2344.4	0.00	99.54
112.0-113.0	0.7	0.1	2344.4	0.00	99.54
113.0-114.0	0.9	0.1	2344.5	0.00	99.54
114.0-115.0	1.0	0.1	2344.6	0.00	99.55
115.0-116.0	1.1	0.1	2344.7	0.00	99.55
116.0-117.0	1.3	0.1	2344.9	0.01	99.56
117.0-118.0	1.4	0.1	2345.0	0.01	99.56
118.0-119.0	1.5	0.1	2345.1	0.01	99.57
119.0-120.0	1.5	0.1	2345.3	0.01	99.58
120.0-121.0	1.6	0.1	2345.4	0.01	99.58
121.0-122.0	1.7	0.2	2345.6	0.01	99.59
122.0-123.0	1.8	0.2	2345.8	0.01	99.60
123.0-124.0	1.8	0.2	2345.9	0.01	99.60
124.0-125.0	1.9	0.2	2346.1	0.01	99.61
125.0-126.0	2.0	0.2	2346.3	0.01	99.62
126.0-127.0	2.1	0.2	2346.5	0.01	99.63
127.0-128.0	2.2	0.2	2346.7	0.01	99.63
128.0-129.0	2.3	0.2	2346.8	0.01	99.64
129.0-130.0	2.3	0.2	2347.0	0.01	99.65
130.0-131.0	2.4	0.2	2347.2	0.01	99.66
131.0-132.0	2.5	0.2	2347.5	0.01	99.67
132.0-133.0	2.6	0.2	2347.7	0.01	99.68
133.0-134.0	2.7	0.2	2347.9	0.01	99.69
134.0-135.0	2.8	0.2	2348.1	0.01	99.70
135.0-136.0	2.9	0.2	2348.3	0.01	99.71
136.0-137.0	3.0	0.2	2348.5	0.01	99.72
137.0-138.0	3.0	0.2	2348.8	0.01	99.72
138.0-139.0	3.1	0.2	2349.0	0.01	99.73
139.0-140.0	3.2	0.2	2349.2	0.01	99.74
140.0-141.0	3.3	0.2	2349.4	0.01	99.75
141.0-142.0	3.3	0.2	2349.7	0.01	99.76
142.0-143.0	3.4	0.2	2349.9	0.01	99.77
143.0-144.0	3.5	0.2	2350.1	0.01	99.78

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 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	3.5	0.2	2350.3	0.01	99.79
145.0-146.0	3.6	0.2	2350.6	0.01	99.80
146.0-147.0	3.7	0.2	2350.8	0.01	99.81
147.0-148.0	3.8	0.2	2351.0	0.01	99.82
148.0-149.0	3.9	0.2	2351.2	0.01	99.83
149.0-150.0	3.9	0.2	2351.5	0.01	99.84
150.0-151.0	4.0	0.2	2351.7	0.01	99.85
151.0-152.0	4.0	0.2	2351.9	0.01	99.86
152.0-153.0	4.1	0.2	2352.1	0.01	99.87
153.0-154.0	4.2	0.2	2352.3	0.01	99.87
154.0-155.0	4.2	0.2	2352.5	0.01	99.88
155.0-156.0	4.3	0.2	2352.7	0.01	99.89
156.0-157.0	4.4	0.2	2352.9	0.01	99.90
157.0-158.0	4.4	0.2	2353.1	0.01	99.91
158.0-159.0	4.5	0.2	2353.2	0.01	99.91
159.0-160.0	4.5	0.2	2353.4	0.01	99.92
160.0-161.0	4.6	0.2	2353.6	0.01	99.93
161.0-162.0	4.6	0.2	2353.8	0.01	99.94
162.0-163.0	4.7	0.2	2353.9	0.01	99.94
163.0-164.0	4.7	0.1	2354.1	0.01	99.95
164.0-165.0	4.8	0.1	2354.2	0.01	99.95
165.0-166.0	4.8	0.1	2354.3	0.01	99.96
166.0-167.0	4.8	0.1	2354.4	0.01	99.97
167.0-168.0	4.9	0.1	2354.6	0.00	99.97
168.0-169.0	4.9	0.1	2354.7	0.00	99.98
169.0-170.0	4.9	0.1	2354.8	0.00	99.98
170.0-171.0	5.0	0.1	2354.9	0.00	99.98
171.0-172.0	5.0	0.1	2354.9	0.00	99.99
172.0-173.0	5.0	0.1	2355.0	0.00	99.99
173.0-174.0	5.1	0.1	2355.1	0.00	99.99
174.0-175.0	5.1	0.1	2355.1	0.00	99.99
175.0-176.0	5.1	0.0	2355.2	0.00	100.00
176.0-177.0	5.1	0.0	2355.2	0.00	100.00
177.0-178.0	5.2	0.0	2355.2	0.00	100.00
178.0-179.0	5.2	0.0	2355.2	0.00	100.00
179.0-180.0	5.2	0.0	2355.3	0.00	100.00

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	1009.2	1006.6	1003.9	1003.1	1001.4	997.3	1009.2	1006.6	1003.9	1003.1
G1.0	1008.6	1005.9	1005.8	1002.3	998.6	997.5	1009.7	1007.3	1005.0	1004.2
G2.0	1007.6	1004.1	1001.3	1002.8	997.5	996.8	1009.4	1007.6	1005.5	1003.4
G3.0	1005.5	1004.6	1000.9	999.3	997.8	996.2	1008.8	1007.5	1005.8	1003.3
G4.0	1003.6	1000.2	998.8	995.2	996.1	995.2	1007.6	1007.2	1006.5	1003.3
G5.0	1000.7	997.5	996.9	994.1	994.2	993.3	1006.6	1006.4	1006.1	1003.2
G6.0	997.8	994.5	991.9	992.1	992.4	991.5	1005.3	1005.3	1005.7	1004.3
G7.0	994.6	990.9	988.8	989.2	990.1	989.5	1002.1	1003.6	1006.3	1003.2
G8.0	990.6	987.1	985.4	986.7	987.4	987.0	999.7	1000.5	1002.9	1002.0
G9.0	985.8	981.8	982.1	984.0	983.2	984.3	997.9	1000.1	1003.9	1000.3
G10.0	981.0	974.7	978.2	980.8	977.9	982.0	994.9	998.3	999.7	998.7
G11.0	975.3	971.8	974.0	977.5	976.8	978.7	991.5	996.2	997.3	995.1
G12.0	969.6	966.1	969.8	974.0	973.0	975.2	988.2	992.9	995.0	992.8
G13.0	962.4	959.9	965.2	969.8	969.7	970.0	984.4	990.0	992.5	990.0
G14.0	955.9	953.8	960.1	965.7	965.6	965.9	980.0	986.6	989.4	987.0
G15.0	948.0	946.1	954.9	961.1	961.3	961.5	976.6	982.8	985.9	983.6
G16.0	940.2	938.3	948.7	957.4	956.8	956.6	970.7	977.8	982.3	980.0
G17.0	931.7	930.2	942.8	952.1	951.7	951.5	963.7	973.0	978.1	976.2
G18.0	921.7	922.1	936.6	947.2	946.7	945.9	957.8	968.0	973.4	971.7
G19.0	912.7	912.8	930.2	941.4	940.7	940.7	952.2	960.4	968.5	966.5
G20.0	902.7	903.8	923.1	936.0	934.7	934.3	944.6	955.8	963.3	960.5
G21.0	892.5	894.4	914.7	931.6	929.3	927.4	936.5	949.3	959.6	954.5
G22.0	880.1	884.3	907.3	922.0	921.5	920.2	927.3	942.4	950.5	948.0
G23.0	868.5	871.6	899.4	916.5	915.3	910.8	918.9	934.8	941.6	940.9
G24.0	856.9	860.7	891.4	909.8	909.0	902.6	909.5	926.7	937.0	931.6
G25.0	845.7	849.5	883.3	904.5	901.3	893.7	899.0	917.9	929.0	925.0
G26.0	830.8	837.7	874.4	894.9	894.1	881.9	886.2	908.8	919.3	914.7
G27.0	817.0	825.6	865.3	887.1	885.7	871.9	874.6	898.5	910.6	903.7
G28.0	802.6	813.1	855.3	877.2	877.5	861.1	862.8	887.7	899.4	895.4
G29.0	787.7	800.0	842.5	869.9	868.8	849.7	850.1	874.9	892.5	883.8
G30.0	771.1	785.2	832.0	859.5	857.7	838.4	835.4	863.1	880.3	873.6
G31.0	755.2	771.0	820.6	849.9	847.8	826.3	821.5	849.7	867.9	860.0
G32.0	738.0	756.6	808.5	839.3	837.6	813.7	806.6	837.8	856.1	846.7
G33.0	719.1	740.2	796.3	828.5	826.8	800.2	792.1	823.5	844.8	830.6
G34.0	698.0	727.9	783.7	816.7	815.0	786.7	777.1	809.1	829.1	816.0
G35.0	676.9	708.5	770.0	804.3	803.0	770.5	760.6	793.5	814.9	800.0
G36.0	655.7	691.2	755.0	791.7	790.2	756.0	741.7	778.5	797.6	784.5

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	633.5	672.9	742.0	778.1	776.5	741.0	724.2	762.0	781.5	767.6
G38.0	608.0	653.7	725.0	763.8	761.3	725.1	705.5	744.3	764.6	750.1
G39.0	585.5	633.7	709.0	747.3	746.8	708.3	682.1	726.0	747.2	730.9
G40.0	562.4	612.3	692.9	729.9	731.4	691.2	664.0	707.2	727.1	712.1
G41.0	539.8	591.0	675.6	715.4	715.7	673.1	643.9	687.8	708.2	694.0
G42.0	513.3	569.7	655.7	698.0	699.2	654.6	623.0	667.3	688.6	670.4
G43.0	491.0	548.4	637.1	678.1	680.1	634.6	600.7	643.2	666.8	650.5
G44.0	468.7	524.3	620.0	658.9	662.6	614.5	578.5	621.6	645.6	629.4
G45.0	447.1	503.1	598.5	641.4	644.7	595.9	556.6	599.4	624.8	608.7
G46.0	424.0	479.4	578.9	620.8	624.4	574.1	533.7	575.2	603.5	585.5
G47.0	403.1	458.4	558.9	600.4	603.6	550.6	511.0	551.9	581.6	564.2
G48.0	383.1	437.7	538.7	581.4	585.7	529.5	485.7	528.9	557.5	542.8
G49.0	365.5	417.1	515.5	561.3	566.5	508.2	462.9	505.5	535.7	521.8
G50.0	347.0	396.6	495.7	541.0	544.9	486.4	441.0	479.3	514.4	499.0
G51.0	330.9	375.1	474.9	517.7	522.2	463.1	418.6	456.1	492.9	476.9
G52.0	314.9	355.8	454.6	497.7	501.4	441.3	396.3	433.1	471.5	457.6
G53.0	300.1	337.3	434.0	476.9	481.0	420.0	377.1	409.7	449.7	437.4
G54.0	284.1	320.9	412.1	457.3	460.5	398.6	358.1	387.9	429.0	417.7
G55.0	269.1	303.3	392.2	436.4	438.6	375.6	338.3	364.1	408.8	397.2
G56.0	254.7	288.0	372.5	418.0	418.6	355.4	320.8	343.8	385.9	378.2
G57.0	241.0	273.1	353.5	398.0	398.5	336.9	303.8	324.9	366.5	360.1
G58.0	226.1	257.6	333.5	377.3	377.4	319.3	287.6	306.6	347.0	342.5
G59.0	213.1	243.6	315.4	359.2	358.6	301.0	270.1	288.0	329.2	323.4
G60.0	200.4	230.1	298.2	342.1	340.0	284.6	255.2	271.4	311.8	307.0
G61.0	188.1	217.1	279.3	324.7	322.0	268.7	240.6	255.6	293.2	291.2
G62.0	175.2	204.1	263.0	308.3	303.0	253.6	226.8	240.7	277.3	275.9
G63.0	163.7	191.8	247.4	290.6	287.6	237.7	213.6	224.3	260.9	260.0
G64.0	152.3	178.9	232.2	275.9	269.6	223.6	200.0	210.7	245.5	245.8
G65.0	141.4	167.2	216.7	261.1	254.0	210.2	187.9	197.7	229.3	232.6
G66.0	129.9	156.3	202.8	247.0	238.9	197.6	176.5	185.3	215.0	219.2
G67.0	119.6	144.0	189.4	232.3	223.0	184.3	163.8	172.7	201.3	205.1
G68.0	110.6	133.3	176.8	219.2	209.0	172.9	152.8	161.3	186.6	192.9
G69.0	101.8	122.9	163.6	206.7	195.3	161.6	141.9	150.3	173.8	181.0
G70.0	91.7	112.8	152.2	194.5	182.2	150.7	131.7	139.6	161.3	169.5
G71.0	84.1	102.4	141.2	181.5	168.4	139.4	121.3	127.9	149.2	157.3
G72.0	76.6	93.3	130.9	169.6	156.4	129.0	110.0	117.8	136.6	146.7
G73.0	69.4	84.1	119.5	158.9	144.8	119.2	99.6	107.5	125.3	136.2

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	61.9	75.9	109.7	147.1	132.3	109.2	90.7	97.3	114.6	126.0
G75.0	55.2	66.7	100.3	136.6	121.3	98.1	80.6	85.9	104.4	115.0
G76.0	48.5	58.3	91.1	126.5	110.8	87.9	71.8	76.9	93.7	105.4
G77.0	42.1	50.4	81.4	116.3	101.3	78.8	63.4	67.7	84.3	95.7
G78.0	36.2	41.9	72.8	107.0	91.7	69.9	54.6	58.4	75.1	85.3
G79.0	31.9	32.3	64.2	96.1	82.0	60.6	46.2	49.9	66.4	76.1
G80.0	27.9	24.2	55.6	87.1	73.2	52.2	39.1	42.0	56.4	67.0
G81.0	24.2	18.5	46.1	77.8	64.4	44.2	33.8	34.7	47.3	57.9
G82.0	20.1	14.9	37.9	69.0	55.3	36.6	29.6	28.6	38.3	48.3
G83.0	16.5	11.9	30.7	59.1	45.5	30.3	25.6	24.3	30.2	36.6
G84.0	13.0	9.7	23.9	49.7	36.7	26.1	21.5	20.2	21.9	25.2
G85.0	9.6	7.3	16.8	39.0	28.4	22.0	17.7	16.3	15.2	13.9
G86.0	5.7	5.0	12.3	27.3	20.0	17.9	14.1	12.7	10.9	4.4
G87.0	1.3	2.6	8.3	15.0	13.1	14.0	10.7	9.0	7.0	1.1
G88.0	0.0	0.0	4.8	5.1	8.4	10.4	7.0	5.5	3.4	0.0
G89.0	0.0	0.0	1.6	1.5	4.6	7.0	2.9	1.4	0.0	0.0
G90.0	0.0	0.0	0.0	0.0	2.1	3.5	0.0	0.0	0.0	0.0
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G108.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G109.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
G110.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.0

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.2
G112.0	0.0	0.0	1.2	1.2	0.9	0.0	0.0	0.0	0.0	1.3
G113.0	0.0	0.0	1.3	1.3	1.1	0.0	0.0	0.0	0.9	1.4
G114.0	1.0	1.0	1.4	1.3	1.0	0.9	0.0	0.0	1.0	1.5
G115.0	1.1	1.0	1.4	1.5	1.0	1.1	0.0	0.0	1.1	1.5
G116.0	1.1	1.2	1.5	1.6	1.2	1.1	0.0	1.0	1.0	1.7
G117.0	1.0	1.3	1.7	1.7	1.3	1.3	0.9	0.9	1.2	1.7
G118.0	1.2	1.5	1.6	1.8	1.2	1.3	1.1	1.0	1.2	1.9
G119.0	1.1	1.6	1.8	1.8	1.3	1.2	1.2	1.2	1.3	1.9
G120.0	1.3	1.6	1.8	1.8	1.5	1.2	1.2	1.3	1.5	1.7
G121.0	1.4	1.7	1.9	2.0	1.5	1.5	1.1	1.4	1.5	1.6
G122.0	1.5	1.8	2.0	2.0	1.7	1.4	1.3	1.4	1.7	1.9
G123.0	1.6	1.9	2.3	2.1	1.5	1.6	1.4	1.4	1.7	2.0
G124.0	1.7	1.9	2.3	2.2	1.6	1.7	1.5	1.4	1.8	2.0
G125.0	1.8	2.0	2.4	2.2	1.6	2.0	1.5	1.5	1.9	2.0
G126.0	1.9	2.2	2.4	2.4	1.7	2.0	1.6	1.7	1.9	2.1
G127.0	2.0	2.2	2.4	2.4	1.9	2.0	1.7	1.6	2.0	2.1
G128.0	2.1	2.3	2.5	2.7	1.9	2.1	1.9	1.6	2.1	2.3
G129.0	2.2	2.5	2.6	2.7	2.0	2.3	2.0	1.8	2.1	2.3
G130.0	2.2	2.5	2.8	2.8	2.0	2.3	2.0	1.9	2.2	2.5
G131.0	2.3	2.6	2.9	2.8	2.2	2.5	2.2	1.9	2.2	2.6
G132.0	2.4	2.7	2.9	3.0	2.3	2.7	2.2	2.1	2.4	2.7
G133.0	2.6	2.8	2.9	3.1	2.3	2.7	2.3	2.3	2.3	2.9
G134.0	2.6	2.9	3.1	3.1	2.5	2.8	2.4	2.2	2.5	2.9
G135.0	2.8	3.0	3.2	3.1	2.6	2.9	2.5	2.4	2.4	3.0
G136.0	3.0	3.1	3.3	3.2	2.8	3.0	2.6	2.3	2.7	3.1
G137.0	2.9	3.0	3.6	3.2	2.7	3.0	2.7	2.5	2.6	3.1
G138.0	2.9	3.0	3.6	3.3	2.8	3.0	2.8	2.6	2.7	3.1
G139.0	3.0	3.4	3.5	3.6	2.9	3.2	3.0	2.6	2.8	3.3
G140.0	3.0	3.5	3.7	3.7	3.0	3.2	3.0	2.6	2.9	3.2
G141.0	3.2	3.4	3.7	3.8	3.0	3.3	3.1	2.7	3.0	3.5
G142.0	3.2	3.5	3.7	3.7	3.1	3.1	3.1	2.7	2.9	3.6
G143.0	3.4	3.5	3.7	3.7	3.2	3.3	3.2	3.0	3.3	3.6
G144.0	3.5	3.5	3.9	3.7	3.3	3.3	3.4	3.0	3.2	3.6
G145.0	3.5	3.7	4.0	3.9	3.3	3.5	3.4	3.0	3.3	3.7
G146.0	3.8	3.7	4.1	3.9	3.3	3.6	3.4	2.9	3.5	3.9
G147.0	3.8	3.8	4.1	4.0	3.5	3.6	3.5	3.0	3.5	4.0

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	3.9	4.0	4.1	3.9	3.5	3.7	3.7	3.4	3.6	4.0
G149.0	4.0	4.0	4.2	4.1	3.7	3.8	3.7	3.5	3.7	4.0
G150.0	4.1	4.2	4.2	4.2	3.8	3.7	3.8	3.5	3.7	4.0
G151.0	4.2	4.1	4.3	4.0	3.8	4.0	3.9	3.5	3.8	4.2
G152.0	4.3	4.1	4.4	4.1	3.9	4.0	3.9	3.6	3.8	4.3
G153.0	4.4	4.2	4.6	4.3	4.0	4.0	3.9	3.7	4.2	4.1
G154.0	4.7	4.1	4.6	4.2	4.1	4.2	4.0	3.8	4.2	4.0
G155.0	4.5	4.3	4.8	4.3	4.2	4.1	4.3	3.8	4.3	4.0
G156.0	4.6	4.3	4.8	4.4	4.3	4.3	4.3	4.0	4.4	4.2
G157.0	4.5	4.5	4.6	4.4	4.3	4.3	4.4	4.1	4.4	4.3
G158.0	4.5	4.5	4.7	4.5	4.3	4.4	4.5	4.1	4.5	4.3
G159.0	4.5	4.5	4.7	4.6	4.3	4.4	4.4	4.2	4.7	4.4
G160.0	4.6	4.5	4.8	4.6	4.3	4.4	4.5	4.5	4.6	4.5
G161.0	4.7	4.7	4.8	4.7	4.5	4.5	4.7	4.4	4.7	4.5
G162.0	4.9	4.7	4.8	4.7	4.6	4.5	4.7	4.4	4.7	4.6
G163.0	4.9	4.7	4.9	4.6	4.5	4.6	4.7	4.6	4.7	4.7
G164.0	4.9	4.8	4.9	4.6	4.5	4.6	4.8	4.7	4.8	4.8
G165.0	4.7	4.8	4.9	4.7	4.6	4.7	4.9	4.7	4.8	4.7
G166.0	4.9	4.9	5.0	4.7	4.9	4.7	4.8	4.7	4.8	4.7
G167.0	4.9	4.8	5.0	4.8	4.8	4.9	4.9	4.7	4.9	4.7
G168.0	4.9	5.0	5.2	4.8	4.8	4.8	4.8	4.8	4.8	4.7
G169.0	4.9	5.0	5.1	4.9	4.8	4.8	5.1	4.7	5.0	4.8
G170.0	5.1	5.1	5.1	4.9	4.8	4.9	5.0	4.9	5.0	4.8
G171.0	5.0	5.2	5.0	4.8	4.8	5.0	5.2	4.9	5.1	4.8
G172.0	5.1	5.1	5.2	4.9	5.0	5.0	5.1	4.9	5.1	4.9
G173.0	5.1	5.0	5.2	4.9	5.0	5.1	5.1	5.0	5.0	5.0
G174.0	5.3	5.0	5.2	5.1	4.8	5.1	5.1	5.0	5.1	4.9
G175.0	5.1	5.0	5.1	5.1	4.9	5.3	5.2	5.0	5.1	4.9
G176.0	5.3	5.0	5.2	4.9	5.0	5.2	5.4	5.0	5.1	4.9
G177.0	5.3	5.2	5.3	5.3	5.0	5.3	5.3	5.1	5.1	4.9
G178.0	5.4	5.1	5.3	5.1	5.1	5.4	5.2	5.0	5.1	4.9
G179.0	5.3	5.1	5.2	5.3	5.1	5.2	5.3	5.3	5.2	5.0
G180.0	5.0	5.3	5.1	5.2	5.2	5.3	5.1	5.2	5.2	5.2

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G0.0	1001.4	997.3	1009.2						
G1.0	999.5	998.7	1008.6						
G2.0	1001.0	998.0	1007.6						
G3.0	998.6	996.9	1005.5						
G4.0	1000.0	995.0	1003.6						
G5.0	998.9	991.7	1000.7						
G6.0	997.8	989.3	997.8						
G7.0	996.0	986.5	994.6						
G8.0	994.1	983.1	990.6						
G9.0	991.5	979.5	985.8						
G10.0	988.0	975.5	981.0						
G11.0	985.2	970.9	975.3						
G12.0	981.8	965.7	969.6						
G13.0	978.2	961.6	962.4						
G14.0	974.0	954.2	955.9						
G15.0	969.7	947.7	948.0						
G16.0	965.4	942.3	940.2						
G17.0	960.1	933.7	931.7						
G18.0	954.7	925.8	921.7						
G19.0	948.6	917.5	912.7						
G20.0	940.0	907.1	902.7						
G21.0	932.7	898.1	892.5						
G22.0	924.9	888.6	880.1						
G23.0	916.8	878.6	868.5						
G24.0	908.3	869.9	856.9						
G25.0	899.5	856.5	845.7						
G26.0	887.8	845.0	830.8						
G27.0	879.2	834.3	817.0						
G28.0	868.4	820.4	802.6						
G29.0	855.1	806.3	787.7						
G30.0	842.7	792.0	771.1						
G31.0	827.6	779.2	755.2						
G32.0	815.3	760.9	738.0						
G33.0	801.0	745.3	719.1						
G34.0	783.5	729.1	698.0						
G35.0	767.6	711.2	676.9						
G36.0	750.6	692.1	655.7						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0						
G37.0	732.8	671.8	633.5						
G38.0	715.1	649.3	608.0						
G39.0	694.7	627.3	585.5						
G40.0	675.6	605.4	562.4						
G41.0	655.9	583.0	539.8						
G42.0	632.5	558.4	513.3						
G43.0	612.0	535.7	491.0						
G44.0	590.6	512.8	468.7						
G45.0	569.3	490.0	447.1						
G46.0	547.5	465.3	424.0						
G47.0	524.8	443.4	403.1						
G48.0	504.0	421.7	383.1						
G49.0	482.4	400.4	365.5						
G50.0	461.1	377.5	347.0						
G51.0	437.8	357.4	330.9						
G52.0	416.7	338.7	314.9						
G53.0	396.2	322.3	300.1						
G54.0	376.1	305.4	284.1						
G55.0	354.4	288.5	269.1						
G56.0	336.0	273.0	254.7						
G57.0	317.1	257.7	241.0						
G58.0	299.3	243.4	226.1						
G59.0	280.7	228.0	213.1						
G60.0	264.3	214.5	200.4						
G61.0	248.6	201.5	188.1						
G62.0	233.4	187.7	175.2						
G63.0	216.9	175.5	163.7						
G64.0	202.4	163.6	152.3						
G65.0	189.5	152.2	141.4						
G66.0	177.0	141.2	129.9						
G67.0	164.2	129.3	119.6						
G68.0	152.8	118.3	110.6						
G69.0	141.9	108.7	101.8						
G70.0	131.3	99.3	91.7						
G71.0	120.1	88.9	84.1						
G72.0	110.4	79.8	76.6						
G73.0	101.1	71.9	69.4						

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	92.2	63.7	61.9							
G75.0	82.4	56.1	55.2							
G76.0	73.8	48.8	48.5							
G77.0	65.1	41.6	42.1							
G78.0	55.4	34.4	36.2							
G79.0	46.5	29.7	31.9							
G80.0	38.5	25.5	27.9							
G81.0	30.5	21.6	24.2							
G82.0	22.6	17.5	20.1							
G83.0	15.2	14.0	16.5							
G84.0	10.7	10.6	13.0							
G85.0	6.9	7.0	9.6							
G86.0	3.9	3.5	5.7							
G87.0	1.7	0.0	1.3							
G88.0	0.0	0.0	0.0							
G89.0	0.0	0.0	0.0							
G90.0	0.0	0.0	0.0							
G91.0	0.0	0.0	0.0							
G92.0	0.0	0.0	0.0							
G93.0	0.0	0.0	0.0							
G94.0	0.0	0.0	0.0							
G95.0	0.0	0.0	0.0							
G96.0	0.0	0.0	0.0							
G97.0	0.0	0.0	0.0							
G98.0	0.0	0.0	0.0							
G99.0	0.0	0.0	0.0							
G100.0	0.0	0.0	0.0							
G101.0	0.0	0.0	0.0							
G102.0	0.0	0.0	0.0							
G103.0	0.0	0.0	0.0							
G104.0	0.0	0.0	0.0							
G105.0	0.0	0.0	0.0							
G106.0	0.0	0.0	0.0							
G107.0	0.0	0.0	0.0							
G108.0	0.9	0.0	0.0							
G109.0	1.2	0.0	0.0							
G110.0	1.4	0.0	0.0							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	1.3	0.0	0.0							
G112.0	1.5	1.2	0.0							
G113.0	1.5	1.2	0.0							
G114.0	1.5	1.1	1.0							
G115.0	1.6	1.2	1.1							
G116.0	1.6	1.4	1.1							
G117.0	1.8	1.6	1.0							
G118.0	1.9	1.6	1.2							
G119.0	2.0	1.7	1.1							
G120.0	2.0	1.6	1.3							
G121.0	2.0	1.8	1.4							
G122.0	2.2	1.9	1.5							
G123.0	2.3	2.1	1.6							
G124.0	2.3	2.2	1.7							
G125.0	2.5	2.1	1.8							
G126.0	2.6	2.3	1.9							
G127.0	2.6	2.2	2.0							
G128.0	2.7	2.3	2.1							
G129.0	3.0	2.4	2.2							
G130.0	2.8	2.4	2.2							
G131.0	2.9	2.5	2.3							
G132.0	3.0	2.7	2.4							
G133.0	3.1	2.7	2.6							
G134.0	3.3	2.7	2.6							
G135.0	3.3	2.9	2.8							
G136.0	3.4	3.0	3.0							
G137.0	3.4	3.1	2.9							
G138.0	3.5	3.1	2.9							
G139.0	3.6	3.1	3.0							
G140.0	3.6	3.3	3.0							
G141.0	3.6	3.3	3.2							
G142.0	3.7	3.5	3.2							
G143.0	3.7	3.5	3.4							
G144.0	3.9	3.5	3.5							
G145.0	3.9	3.7	3.5							
G146.0	4.0	3.7	3.8							
G147.0	4.1	3.9	3.8							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	4.1	4.0	3.9							
G149.0	4.2	3.9	4.0							
G150.0	4.1	3.9	4.1							
G151.0	4.3	4.0	4.2							
G152.0	4.3	4.1	4.3							
G153.0	4.4	4.3	4.4							
G154.0	4.5	4.3	4.7							
G155.0	4.5	4.2	4.5							
G156.0	4.4	4.3	4.6							
G157.0	4.6	4.4	4.5							
G158.0	4.6	4.6	4.5							
G159.0	4.7	4.6	4.5							
G160.0	4.8	4.5	4.6							
G161.0	4.9	4.5	4.7							
G162.0	4.9	4.5	4.9							
G163.0	5.0	4.6	4.9							
G164.0	5.0	4.6	4.9							
G165.0	5.1	4.8	4.7							
G166.0	5.1	4.7	4.9							
G167.0	5.1	4.8	4.9							
G168.0	5.2	4.9	4.9							
G169.0	5.2	4.8	4.9							
G170.0	5.2	4.8	5.1							
G171.0	5.2	4.9	5.0							
G172.0	5.2	4.9	5.1							
G173.0	5.2	4.9	5.1							
G174.0	5.3	5.1	5.3							
G175.0	5.3	5.1	5.1							
G176.0	5.3	5.2	5.3							
G177.0	5.3	5.1	5.3							
G178.0	5.4	5.3	5.4							
G179.0	5.4	5.2	5.3							
G180.0	5.3	5.2	5.0							

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 11.655 m [K=1.0000]
 Humidity:
 Inspector: