

Report No.:

Test Time:

Luminaire Property

Luminaire Manufacturer: OSAKA LIGHTING (PVT.) LTD.

Luminaire Category: LED HIGHBAY

Lamp Catalog: LED

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.469 A

Power Factor: 0.953

Luminaire Description: H001E-100W

Lamp Description: SMD

Lumens per Lamp:

Luminous Width (mm):

Voltage: 230.6 V

Power: 103.07 W

Photometric Results

IES NEMA Type: 6H x 7V

Measurement radiation Flux: 17353.2 mW

Field Lumens: 16527.5 mW

Field Angle: H128.0, V142.3

Luminous Efficacy (lm/w): 168.36

Max. Intensity: 509.31 mW/sr/klm

Total Rated Lamp radiation flux: 17353.2 mW

Efficiency: 100%

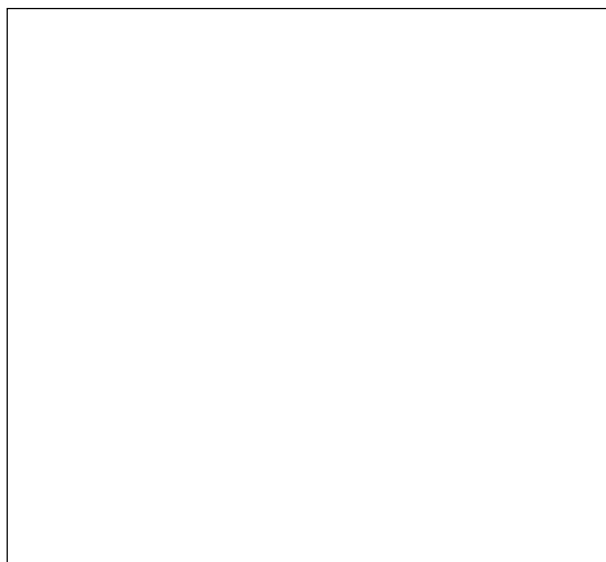
Field Efficiency: 95.24%

Beam Angle: H90.9, V89.1

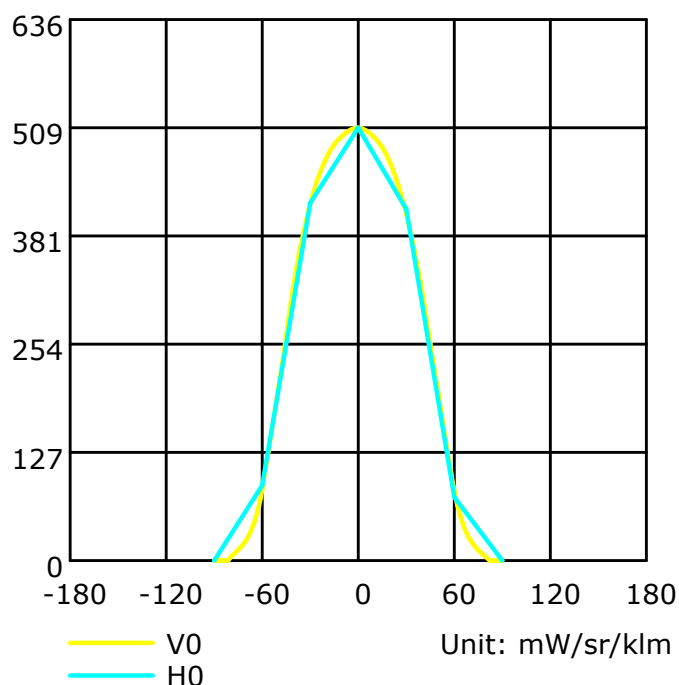
C0r0 Intensity: 509.3 mW/sr/klm

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Radiation Intensity Distribution Curve



B Plane (°):-90.0-90.0: 30.0

Test Lab:

Test Type: TYPE B

Temperature:

Operator: F

Beta Plane (°):-90.0-90.0:1.0

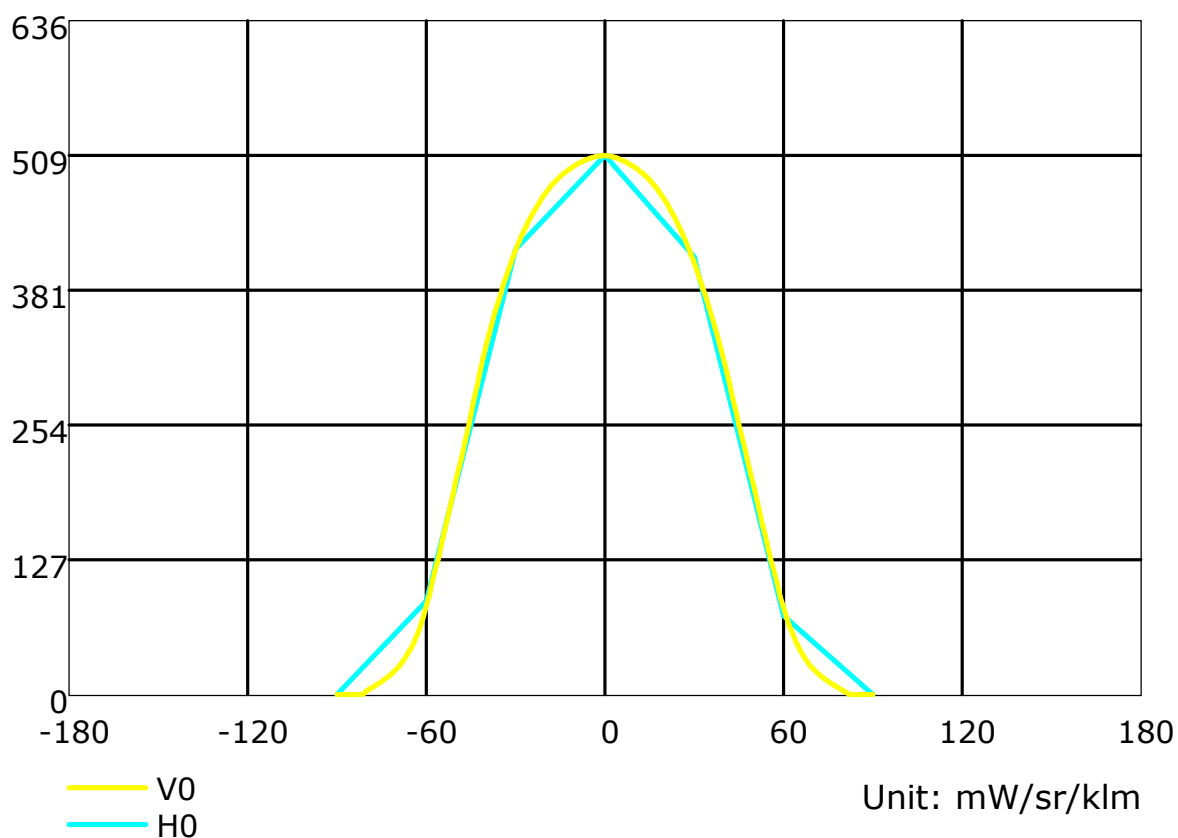
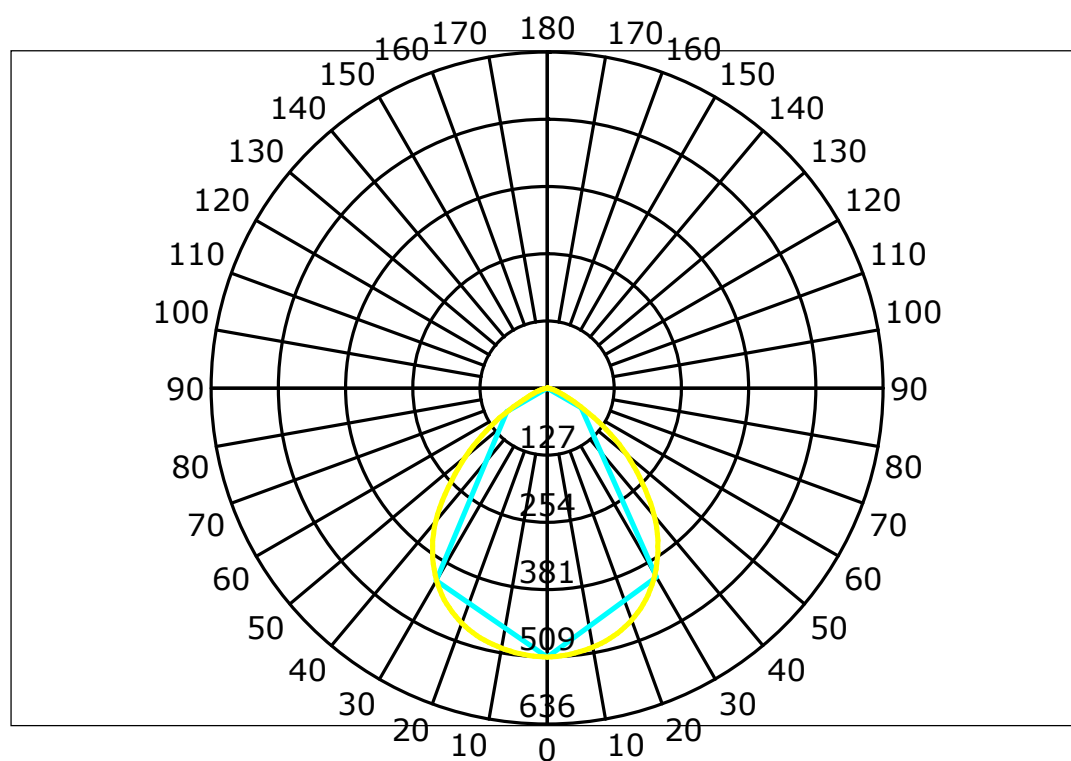
Test Device: GPM-1600L

Distance: 6.912 m

Humidity:

Inspector:

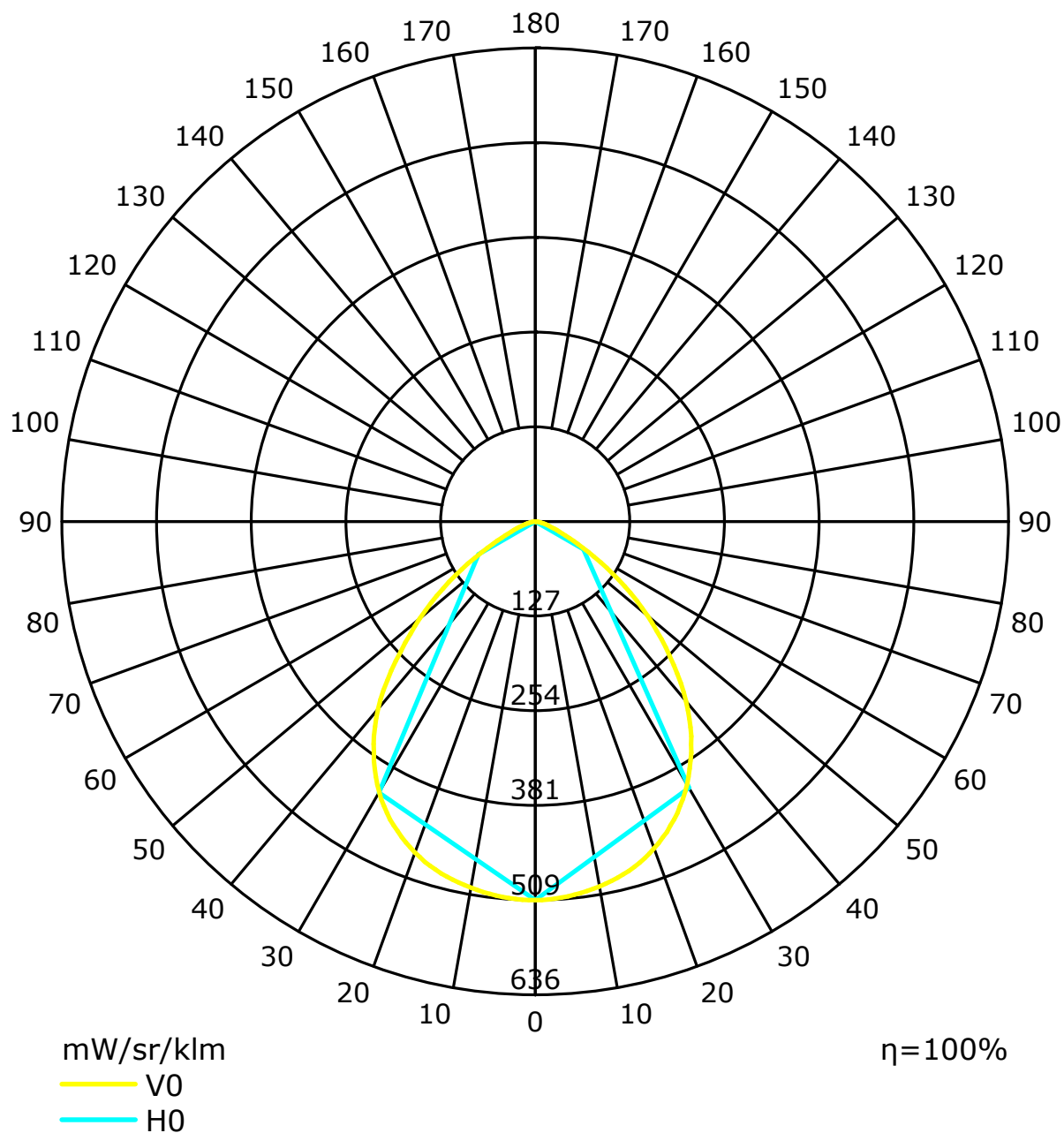
Radiation Intensity Distribution Curve



B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Radiation Intensity Distribution Curve(mW/sr/klm)



B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

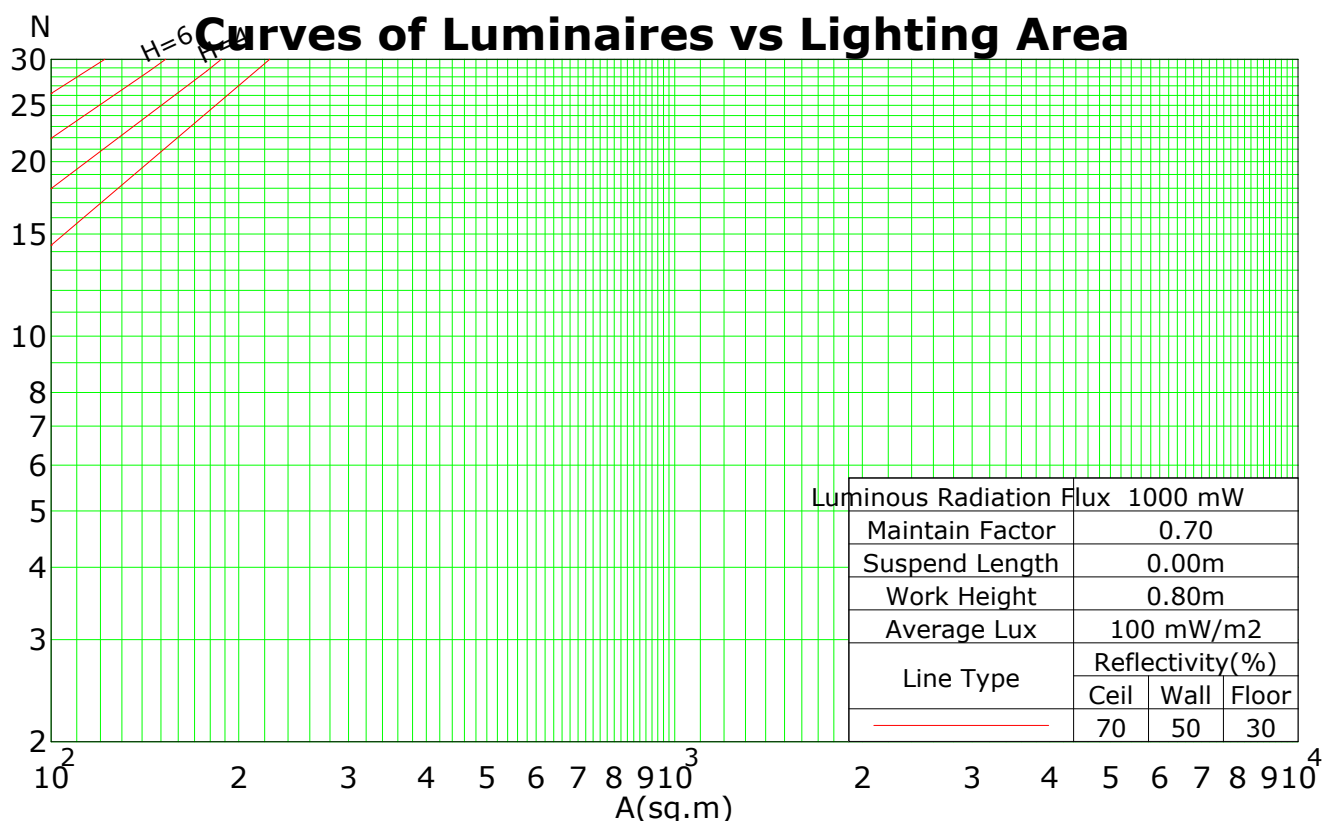
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.07	1.04	1.01	1.09	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.90	0.88
2	1.03	0.96	0.90	0.86	1.00	0.94	0.89	0.85	0.91	0.86	0.83	0.88	0.84	0.81	0.85	0.82	0.79	0.77
3	0.95	0.86	0.79	0.74	0.93	0.85	0.78	0.73	0.82	0.76	0.72	0.79	0.75	0.71	0.77	0.73	0.69	0.67
4	0.88	0.78	0.70	0.64	0.86	0.76	0.69	0.64	0.74	0.68	0.63	0.72	0.66	0.62	0.70	0.65	0.61	0.59
5	0.82	0.70	0.62	0.57	0.80	0.69	0.62	0.56	0.67	0.61	0.56	0.65	0.60	0.55	0.64	0.59	0.55	0.53
6	0.76	0.64	0.56	0.50	0.74	0.63	0.56	0.50	0.61	0.55	0.50	0.60	0.54	0.49	0.58	0.53	0.49	0.47
7	0.71	0.59	0.51	0.45	0.69	0.58	0.50	0.45	0.56	0.50	0.45	0.55	0.49	0.44	0.54	0.48	0.44	0.42
8	0.66	0.54	0.46	0.41	0.65	0.53	0.46	0.41	0.52	0.45	0.40	0.51	0.45	0.40	0.50	0.44	0.40	0.38
9	0.62	0.50	0.42	0.37	0.61	0.49	0.42	0.37	0.48	0.41	0.37	0.47	0.41	0.37	0.46	0.41	0.36	0.35
10	0.58	0.46	0.39	0.34	0.57	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.33	0.43	0.37	0.33	0.32

Spacing Criteria (0-180): 1.21

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.25



B Plane (°):-90.0-90.0: 30.0

Test Lab:

Test Type: TYPE B

Temperature:

Operator: F

Beta Plane (°):-90.0-90.0:1.0

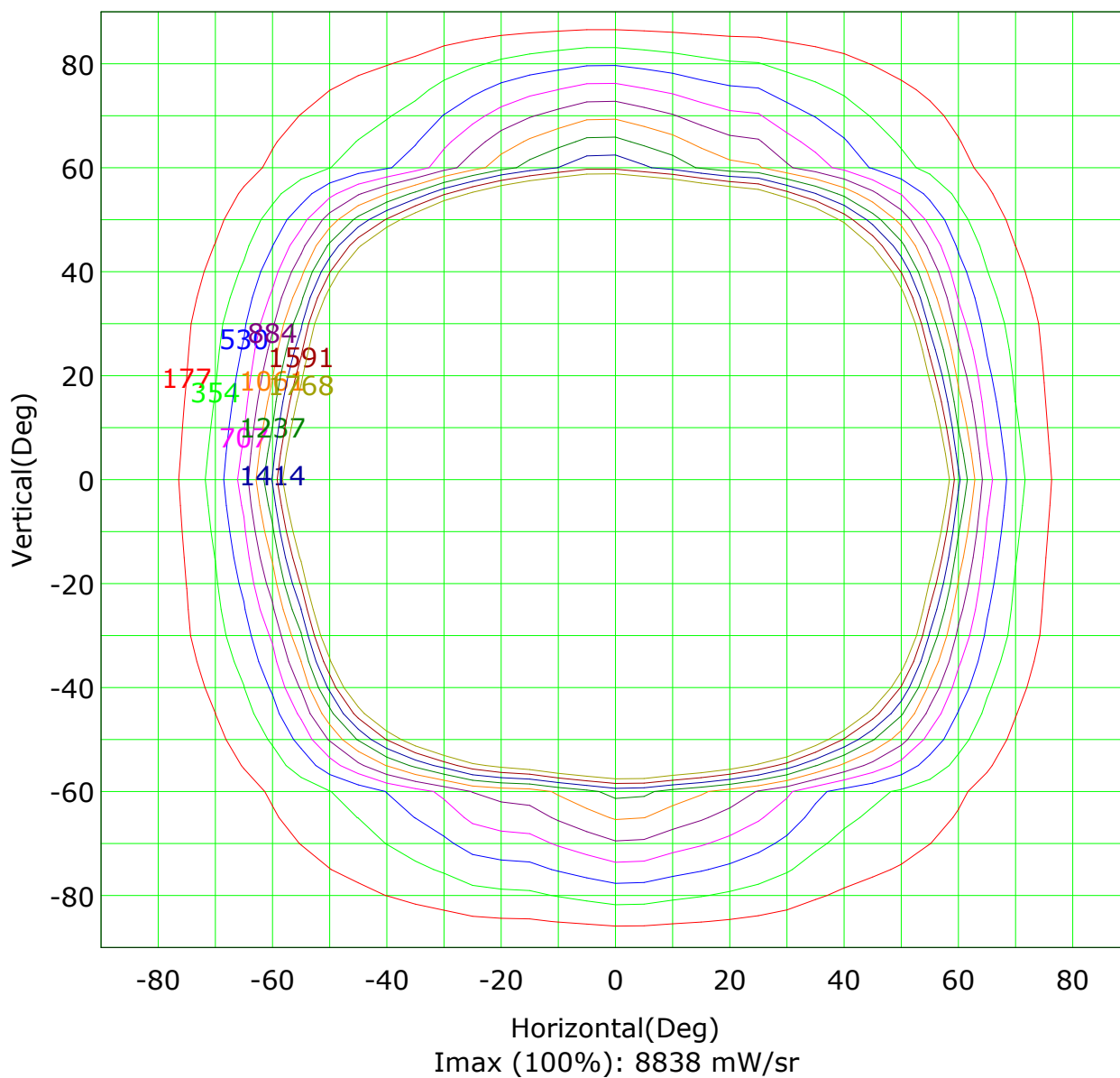
Test Device: GPM-1600L

Distance: 6.912 m

Humidity:

Inspector:

Iso Radiation intensity(rectangle)

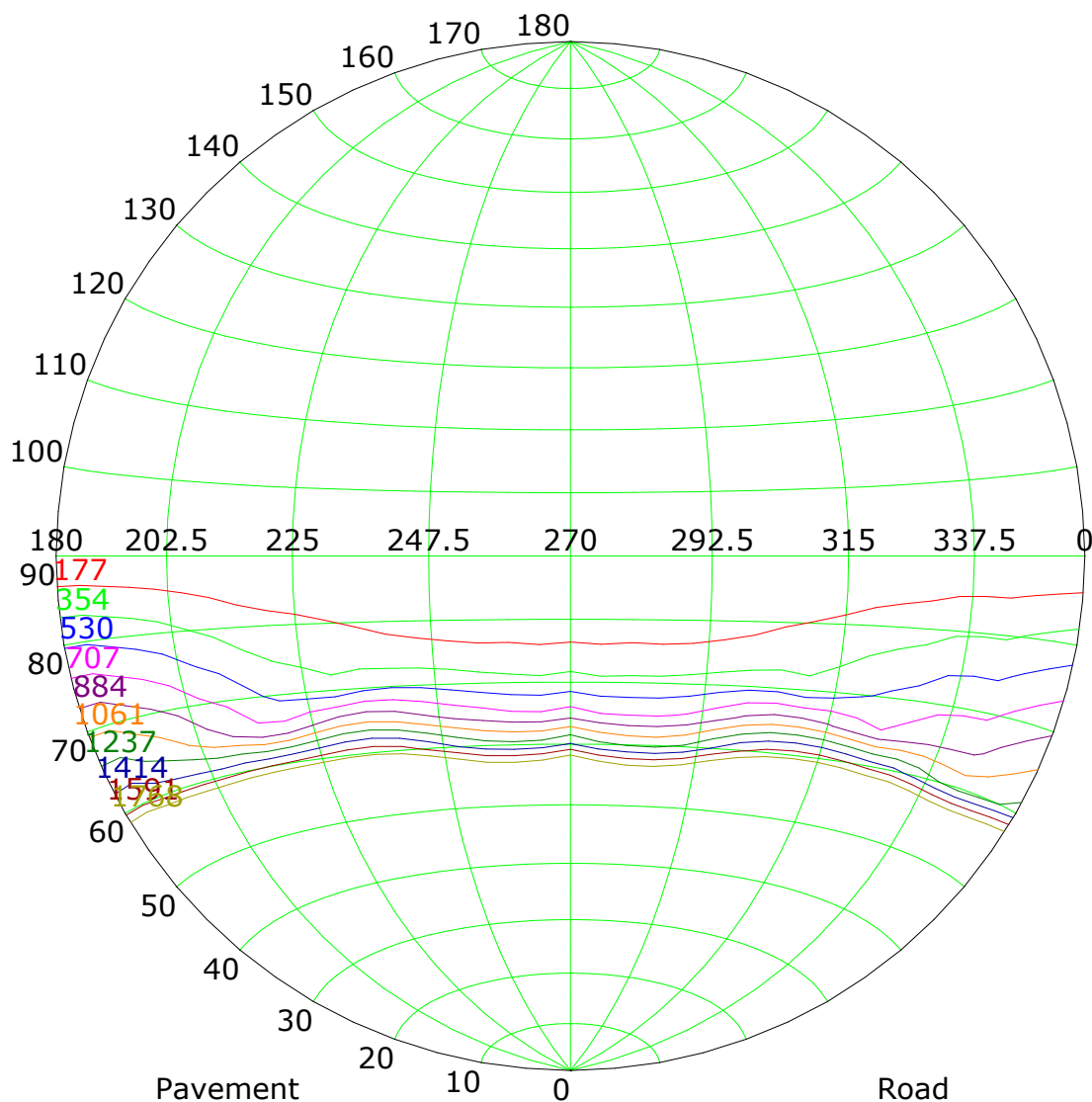


(2%): 177 mW/sr	(4%): 354 mW/sr
(6%): 530 mW/sr	(8%): 707 mW/sr
(10%): 884 mW/sr	(12%): 1061 mW/sr
(14%): 1237 mW/sr	(16%): 1414 mW/sr
(18%): 1591 mW/sr	(20%): 1768 mW/sr

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

Iso Radiation intensity(sphere)



Imax (100%): 8838 mW/sr

(2%): 177 mW/sr	(4%): 354 mW/sr
(6%): 530 mW/sr	(8%): 707 mW/sr
(10%): 884 mW/sr	(12%): 1061 mW/sr
(14%): 1237 mW/sr	(16%): 1414 mW/sr
(18%): 1591 mW/sr	(20%): 1768 mW/sr

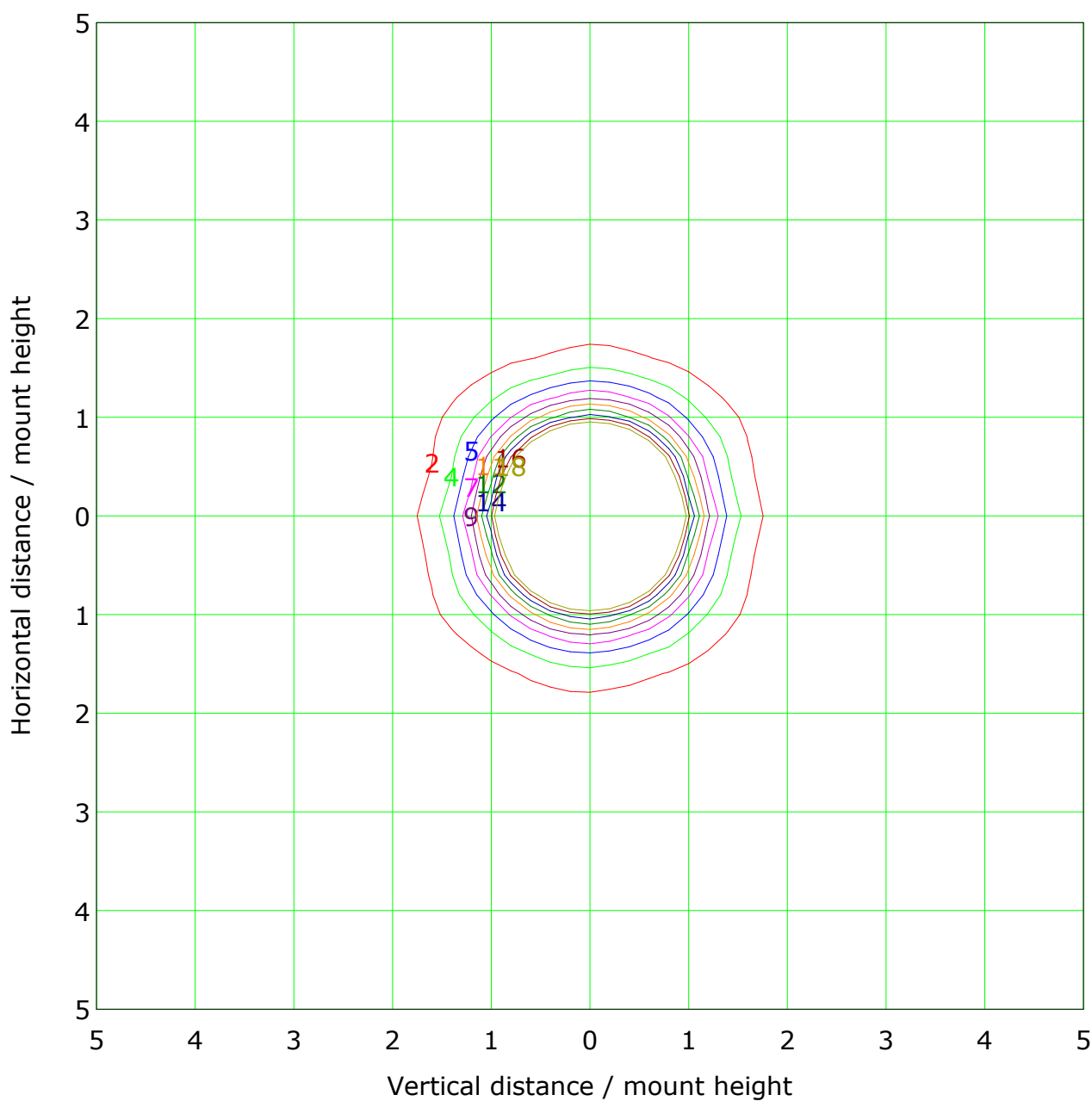
CIE: narrow - long
CIE: Non-cut-off luminaire
Max.At90: 29.349 cd/klm

IES: Non-cut-off
Max.At80: 28.822 cd/klm
Max.80-90: 29.349 cd/klm

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

IsoIrradiance Plot



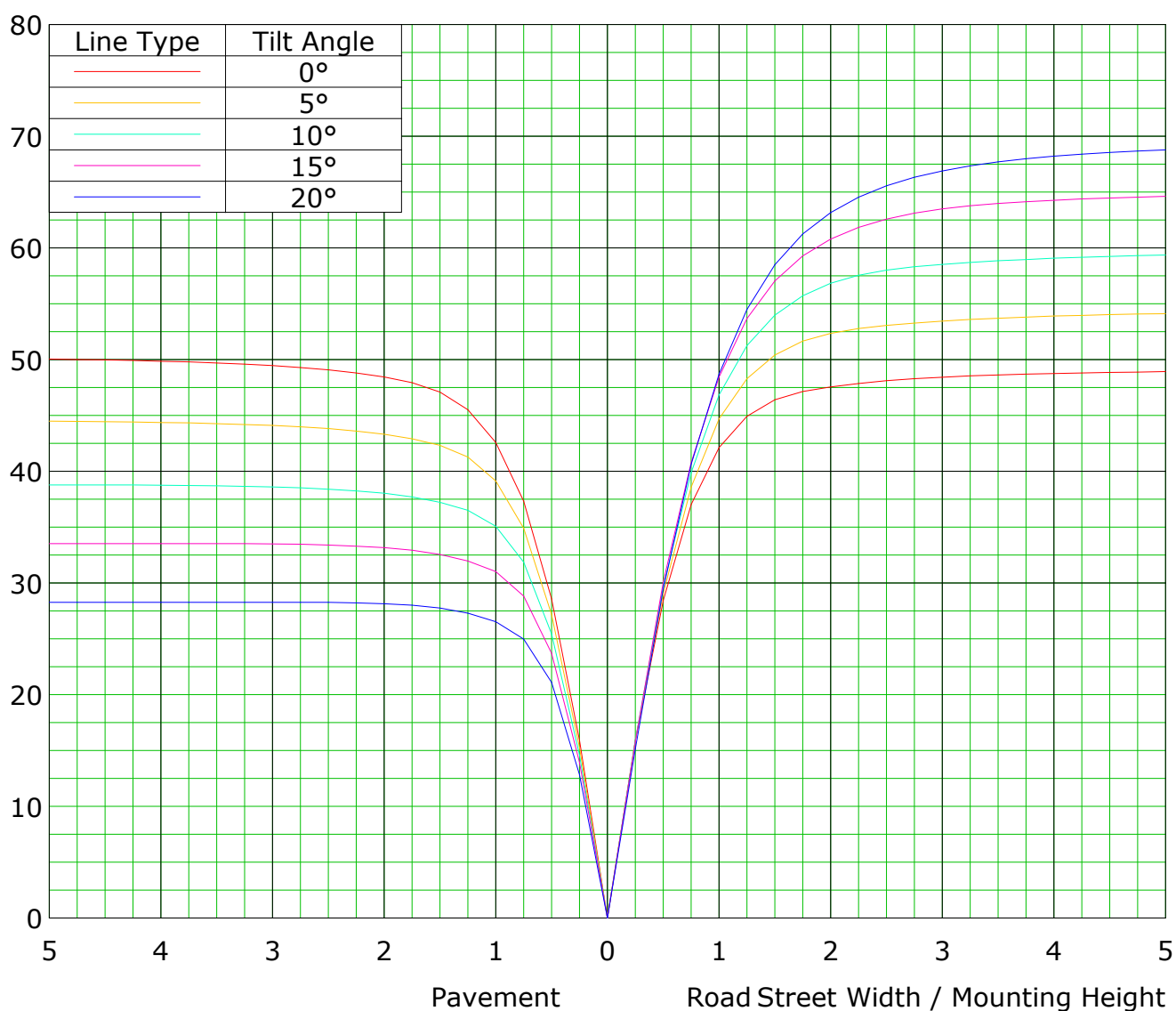
Mounting Height: 10.0m Max Irradiance(100%): 88.4 mW/m ²	
(2%): 1.8 mW/m ²	(4%): 3.5 mW/m ²
(6%): 5.3 mW/m ²	(8%): 7.1 mW/m ²
(10%): 8.8 mW/m ²	(12%): 10.6 mW/m ²
(14%): 12.4 mW/m ²	(16%): 14.1 mW/m ²
(18%): 15.9 mW/m ²	(20%): 17.7 mW/m ²

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

Roadway CU Curve

Efficiency(%)



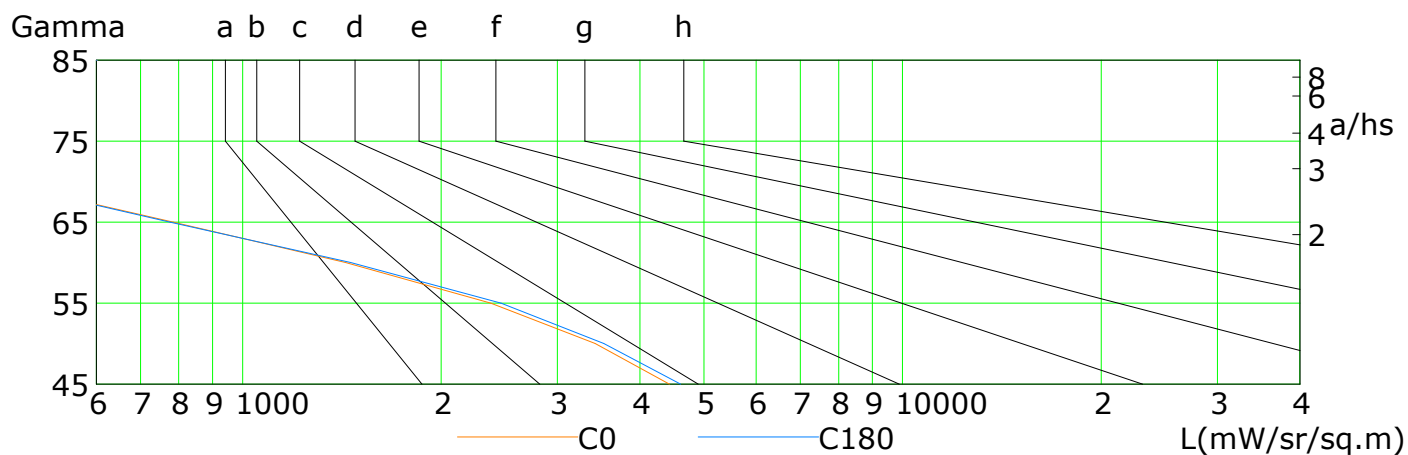
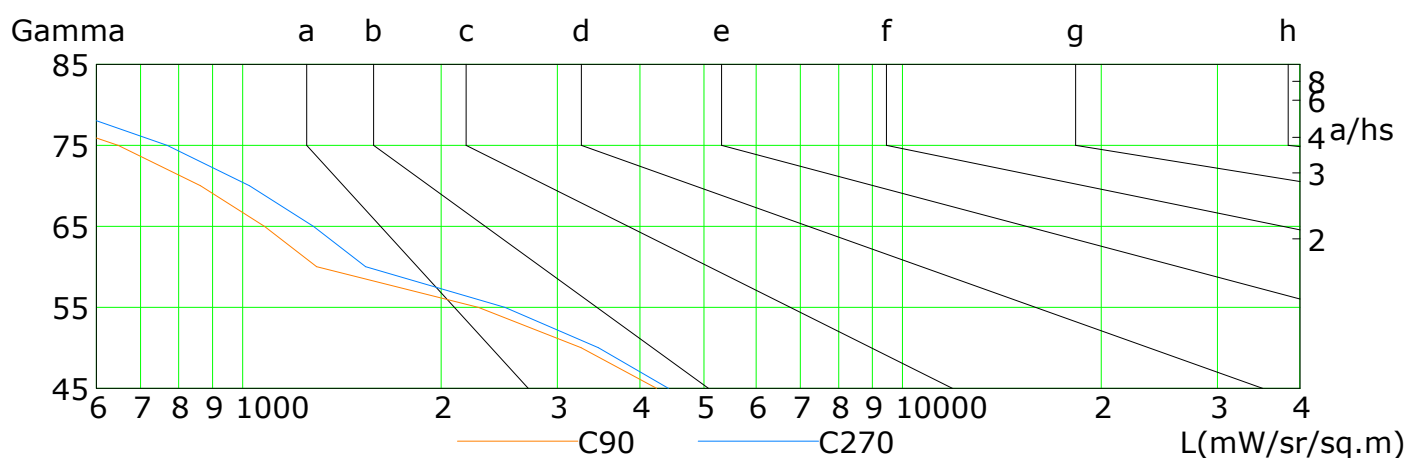
B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

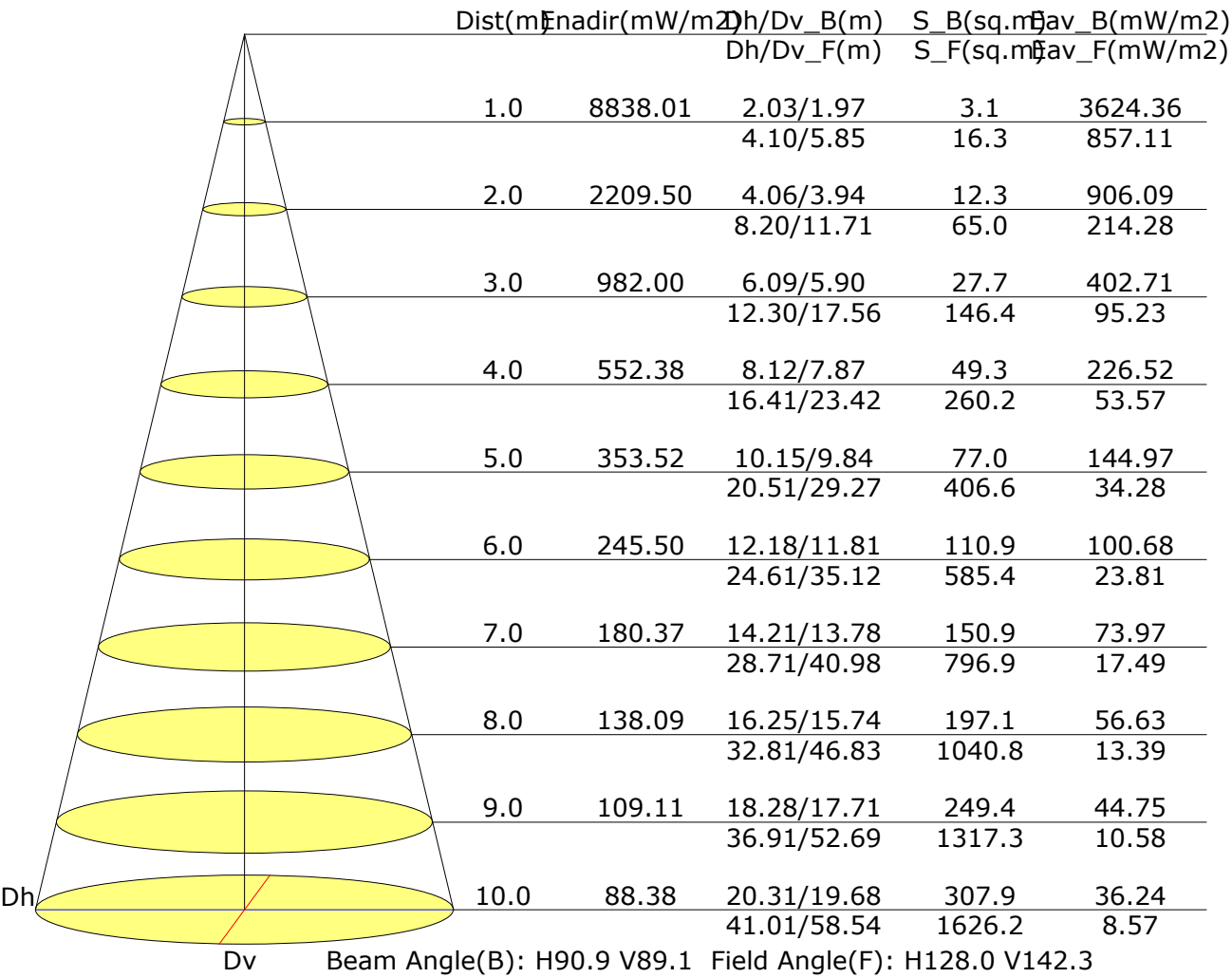


L(mW/sr/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4434	3421	2376	1432	785	424	219	66	0
C90	4237	3256	2276	1295	1079	864	648	432	216
C180	4610	3527	2465	1457	777	423	218	64	0
C270	4420	3459	2498	1537	1281	1024	768	512	256

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

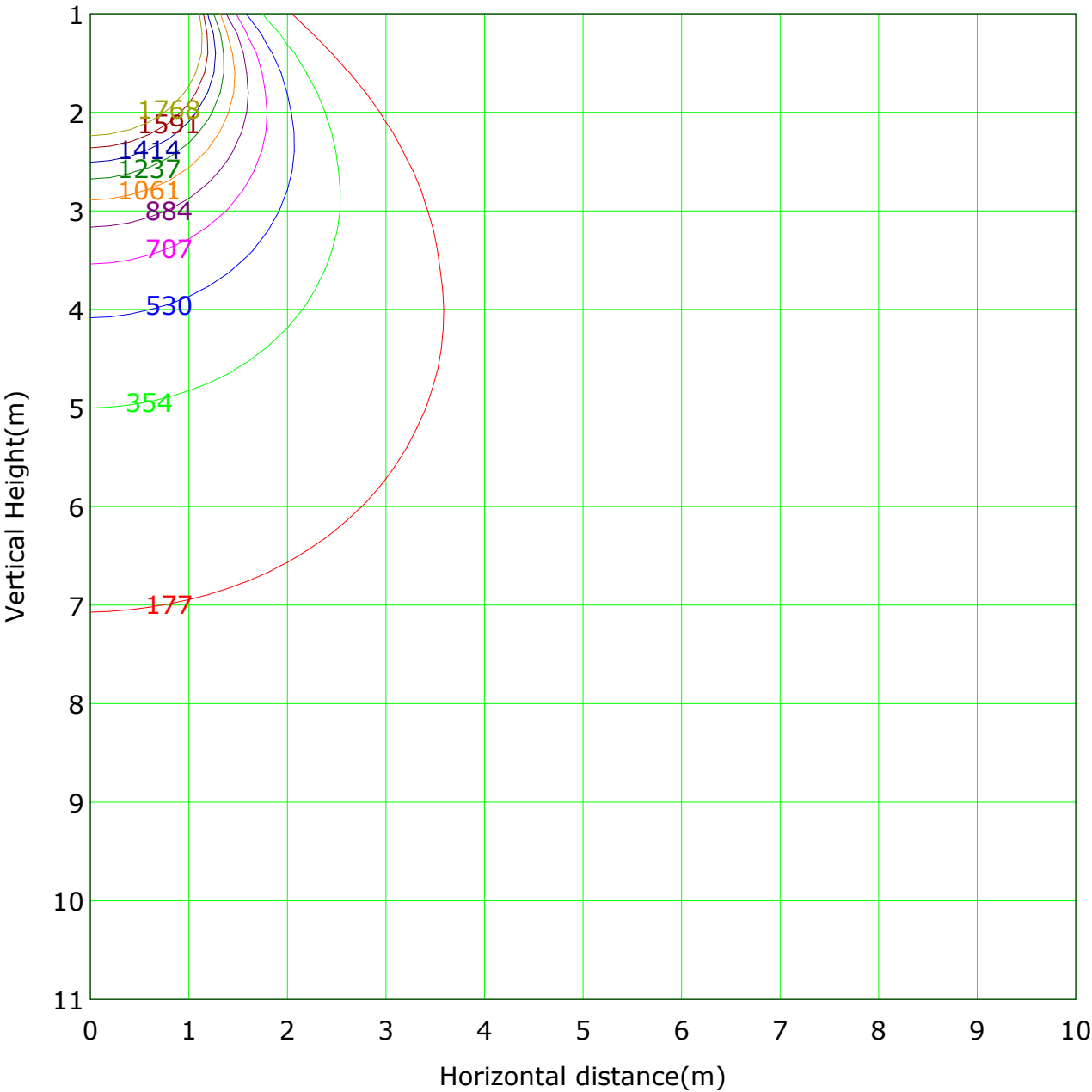
Illuminance at a Distance



B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Vertical IsoIrradiance Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Irradiance: 8838.0 mW/m2

(2%): 176.8 mW/m2	(4%): 353.5 mW/m2
(6%): 530.3 mW/m2	(8%): 707.0 mW/m2
(10%): 883.8 mW/m2	(12%):1060.6 mW/m2
(14%):1237.3 mW/m2	(16%):1414.1 mW/m2
(18%):1590.8 mW/m2	(20%):1767.6 mW/m2

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Area Radiation Flux Table

Unit: mW/klm

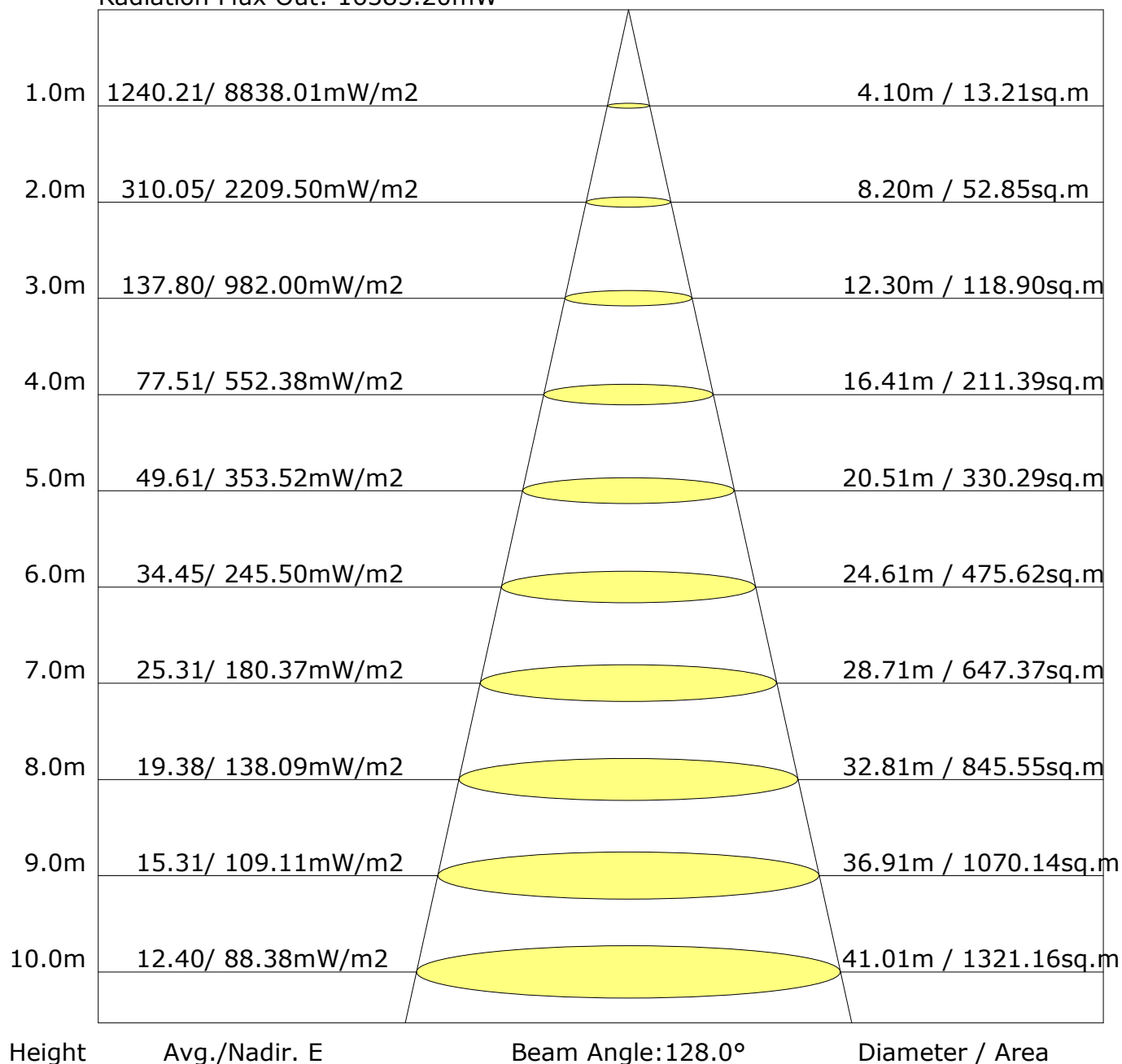
Vertical plane	Horizontal plane																		Flux(T)	Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80		
-90	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
-80	0.0	0.0	0.1	0.2	0.3	0.6	0.8	1.0	1.3	1.3	1.1	0.8	0.5	0.3	0.3	0.1	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.1	0.3	0.5	0.9	1.4	1.7	2.1	2.2	1.8	1.3	0.8	0.5	0.4	0.2	0.1	0.0	0.0	0.0
-60	0.0	0.0	0.2	0.5	1.2	2.0	3.0	3.6	4.2	4.3	3.7	2.9	1.9	1.1	0.9	0.5	0.2	0.0	0.0	0.0
-50	0.0	0.0	0.2	0.9	2.2	3.9	5.6	6.8	7.6	7.6	6.9	5.5	3.8	2.1	1.1	0.9	0.3	0.0	0.0	0.0
-40	0.0	0.1	0.3	1.2	3.2	5.7	8.2	10.0	10.9	11.0	10.0	8.1	5.7	3.2	1.3	0.9	0.4	0.1	0.0	0.0
-30	0.0	0.1	0.4	1.6	4.1	7.1	10.0	12.0	13.1	13.1	12.0	9.9	7.0	4.1	1.6	0.4	0.4	0.1	0.0	0.0
-20	0.0	0.1	0.5	2.0	4.7	8.0	10.9	13.0	14.0	14.0	12.9	10.8	7.9	4.7	2.0	0.5	0.1	0.1	0.0	0.0
-10	0.0	0.1	0.6	2.3	5.4	9.0	11.9	13.9	14.9	14.9	13.8	11.7	8.7	5.3	2.3	0.6	0.6	0.1	0.0	0.0
0	0.0	0.1	0.6	2.3	5.4	9.0	11.9	13.9	14.9	14.8	13.8	11.7	8.7	5.2	2.3	0.6	0.6	0.1	0.0	0.0
10	0.0	0.1	0.5	2.0	4.7	8.0	11.0	12.9	13.9	13.9	12.7	10.7	7.8	4.6	1.9	0.5	0.5	0.1	0.0	0.0
20	0.0	0.1	0.4	1.6	4.1	7.1	10.0	12.0	13.0	12.9	11.7	9.7	6.9	3.9	1.5	0.4	0.4	0.1	0.0	0.0
30	0.0	0.1	0.4	1.3	3.2	5.7	8.2	9.9	10.8	10.7	9.6	7.9	5.6	3.1	1.1	0.3	0.3	0.1	0.0	0.0
40	0.0	0.0	0.3	0.9	2.1	3.8	5.5	6.7	7.3	7.2	6.5	5.3	3.7	2.1	0.8	0.2	0.2	0.0	0.0	0.0
50	0.0	0.0	0.2	0.5	1.0	1.8	2.7	3.4	3.9	3.8	3.3	2.7	1.9	1.1	0.4	0.1	0.1	0.0	0.0	0.0
60	0.0	0.0	0.1	0.2	0.4	0.7	1.2	1.5	1.8	1.7	1.4	1.1	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0
70	0.0	0.0	0.1	0.1	0.2	0.4	0.7	0.9	1.1	1.0	0.8	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.9	4.9	18.0	43.1	74.1	103.4	124.0	135.5	135.2	122.7	101.2	72.1	42.0	17.3	4.8	0.9	0.0	0.0	0.0
Flux(E)	0.0	0.0	1.1	15.1	40.6	70.8	99.6	120.5	132.4	132.1	119.1	97.3	69.0	39.5	14.3	1.1	0.0	0.0	0.0	0.0
Flux(T)	0.0	0.9	4.9	18.0	43.1	74.1	103.4	124.0	135.5	135.2	122.7	101.2	72.1	42.0	17.3	4.8	0.9	0.0	0.0	0.0
Flux(E)	0.0	0.0	1.1	15.1	40.6	70.8	99.6	120.5	132.4	132.1	119.1	97.3	69.0	39.5	14.3	1.1	0.0	0.0	0.0	0.0

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

The Average Illuminance Effective Figure

Radiation Flux Out: 16385.20mW



B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

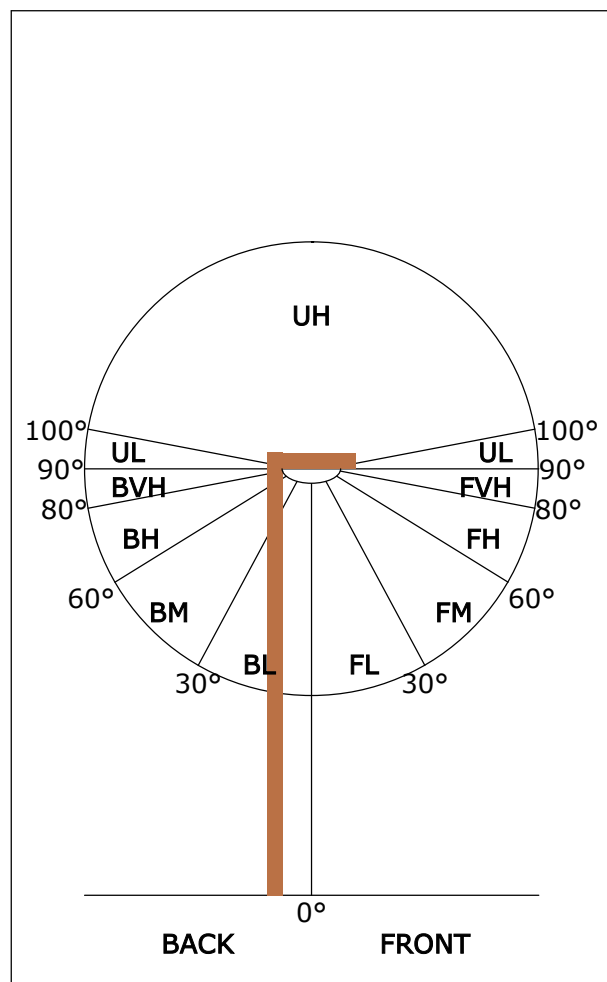
UGR Table

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

Calculate in accordance with CIE Pub.117. The table is revised with 17353lm ($8\log(F/F_0) = 9.9$).

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

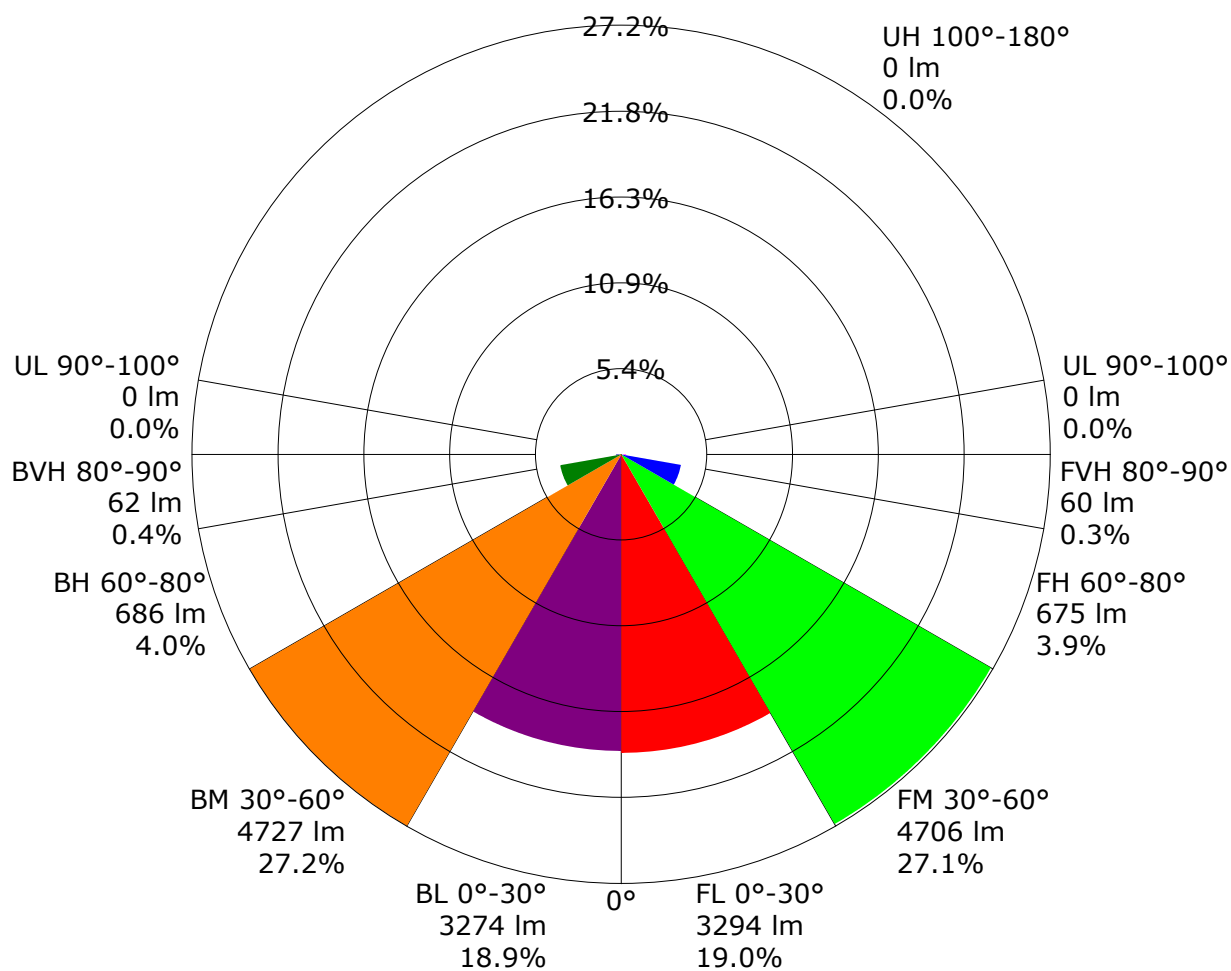
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	8735	50.3
FL (0°-30°)	3294	19.0
FM (30°-60°)	4706	27.1
FH (60°-80°)	675	3.9
FVH (80°-90°)	60	0.3
BACK LIGHT	8749	50.4
BL (0°-30°)	3274	18.9
BM (30°-60°)	4727	27.2
BH (60°-80°)	686	4.0
BVH (80°-90°)	62	0.4
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B4 U1 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U1 G1

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:NA,NA

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
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	0.56	0.65	0.71	0.75	0.81	0.84	0.87	0.90	0.92	
	0.30		0.50	0.59	0.66	0.70	0.76	0.81	0.83	0.87	0.90	
	0.20		0.46	0.55	0.62	0.66	0.73	0.77	0.80	0.85	0.88	
0.50	0.50	0.20	0.55	0.63	0.69	0.73	0.78	0.82	0.84	0.87	0.89	
	0.30		0.49	0.58	0.64	0.69	0.75	0.78	0.81	0.84	0.87	
	0.20		0.45	0.55	0.61	0.65	0.71	0.76	0.78	0.82	0.85	
0.30	0.50	0.20	0.54	0.62	0.67	0.71	0.76	0.79	0.81	0.84	0.85	
	0.30		0.49	0.58	0.63	0.67	0.73	0.76	0.79	0.82	0.84	
	0.20		0.45	0.54	0.60	0.64	0.70	0.74	0.77	0.80	0.82	
0.00	0.00	0.00	0.43	0.52	0.58	0.62	0.67	0.71	0.73	0.76	0.78	
Rating:106W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.00									
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	0.76	0.60	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.52	0.44	0.38	0.31	0.26	0.22	0.17	0.14	
	0.20		0.54	0.45	0.39	0.34	0.28	0.24	0.20	0.16	0.13	
0.50	0.50	0.20	0.73	0.58	0.48	0.41	0.32	0.29	0.22	0.17	0.14	
	0.30		0.62	0.50	0.43	0.37	0.29	0.24	0.21	0.16	0.13	
	0.20		0.53	0.44	0.38	0.34	0.27	0.23	0.20	0.15	0.13	
0.30	0.50	0.20	0.71	0.55	0.46	0.39	0.31	0.25	0.21	0.16	0.13	
	0.30		0.60	0.49	0.41	0.36	0.28	0.23	0.20	0.15	0.13	
	0.20		0.53	0.44	0.37	0.33	0.26	0.22	0.19	0.15	0.12	
0.00	0.00	0.00	0.43	0.34	0.29	0.25	0.19	0.16	0.13	0.10	0.08	
Rating:106W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.00									
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	0.13	0.14	0.15	0.16	0.16	0.17	0.17	0.18	0.18	
	0.30		0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	
	0.20		0.04	0.06	0.07	0.08	0.10	0.12	0.13	0.14	0.15	
0.50	0.50	0.20	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	0.18	
	0.30		0.08	0.09	0.10	0.11	0.13	0.14	0.14	0.15	0.16	
	0.20		0.04	0.06	0.07	0.08	0.10	0.11	0.12	0.14	0.15	
0.30	0.50	0.20	0.12	0.13	0.14	0.14	0.15	0.16	0.16	0.17	0.17	
	0.30		0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.15	
	0.20		0.04	0.06	0.07	0.08	0.10	0.11	0.12	0.13	0.14	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:106W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

B Plane (°):-90.0-90.0: 30.0
 Test Lab:
 Test Type: TYPE B
 Temperature:
 Operator: F

Beta Plane (°):-90.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 6.912 m
 Humidity:
 Inspector:

Zonal Lumen

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

cone flux(90°): 12193.14 mW

%lum = 70.3%
%lamp = 70.3%

cone flux(120°): 15900.60 mW

%lum = 91.6%
%lamp = 91.6%

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 2)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 3)

Unit: mW/sr/klm

V\H	H-60.0	H-59.0	H-58.0	H-57.0	H-56.0	H-55.0	H-54.0	H-53.0	H-52.0	H-51.0
V-90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V60.0	11.5	12.3	13.1	13.9	14.7	15.4	16.1	16.8	17.6	18.4
V40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V220.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V260.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V320.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V340.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V380.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V420.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V440.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V460.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V520.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V540.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V560.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V580.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V620.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V640.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V660.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V680.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V720.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V740.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V760.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V780.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V820.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V840.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V860.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V880.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V920.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V940.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V960.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V980.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V1000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 4)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 5)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 6)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 7)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 8)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 9)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 10)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 11)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 12)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 13)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 14)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 15)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 16)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 17)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

Candlepower Table (Continue 18)

Unit: mW/sr/klm

[illegible]

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector:

LED Average Luminance Report

Avg.L	mW/sr/m ²
L 0-180(65) av	1.#J
L 0-180(75) av	1.#J
L 0-180(85) av	-1.#J
L 90-270(65) av	1.#J
L 90-270(75) av	1.#J
L 90-270(85) av	1.#J
L 45(65) av	1.#J
L 45(75) av	1.#J
L 45(85) av	1.#J

Standard: GB/T 29293-2012

B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

Beta Plane (°):-90.0-90.0:1.0
Test Device: GPM-1600L
Distance: 6.912 m
Humidity:
Inspector: