

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: 1.128 A

Power Factor: 0.976

Luminaire Description: H001E-250W

Lamp Description: SMD

Lumens per Lamp:

Luminous Width (mm):

Voltage: 230.2 V

Power: 253.37 W

Photometric Results

IES NEMA Type: 7H x 7V

Measurement radiation Flux: 43340.7 mW

Field Lumens: 41868.5 mW

Field Angle: H135.2, V156.7

Luminous Efficacy (lm/w): 171.06

Max. Intensity: 465.2 mW/sr/klm

Total Rated Lamp radiation flux: 43340.7 mW

Efficiency: 100%

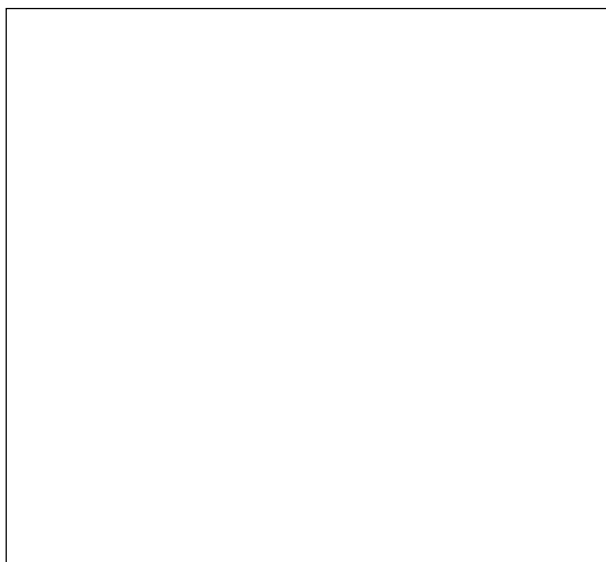
Field Efficiency: 96.60%

Beam Angle: H93.8, V93.7

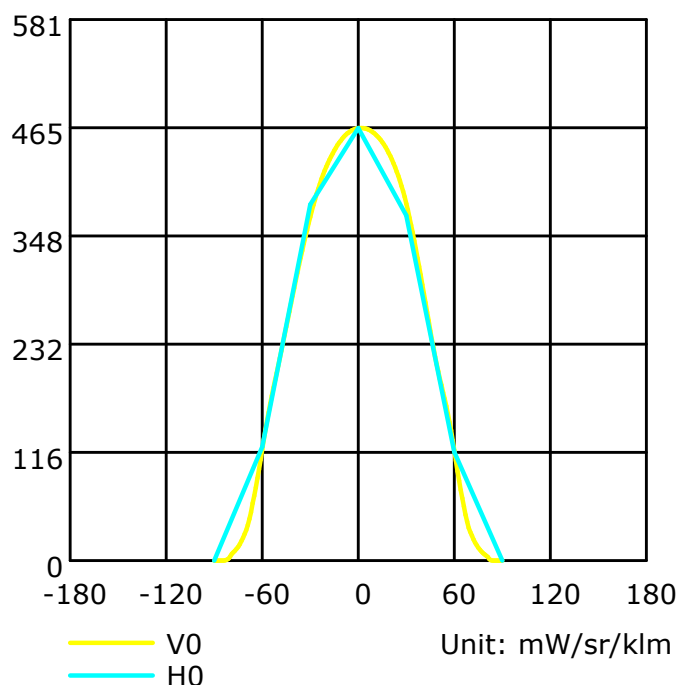
C0r0 Intensity: 465 mW/sr/klm

Pos of Max. Intensity: H2 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

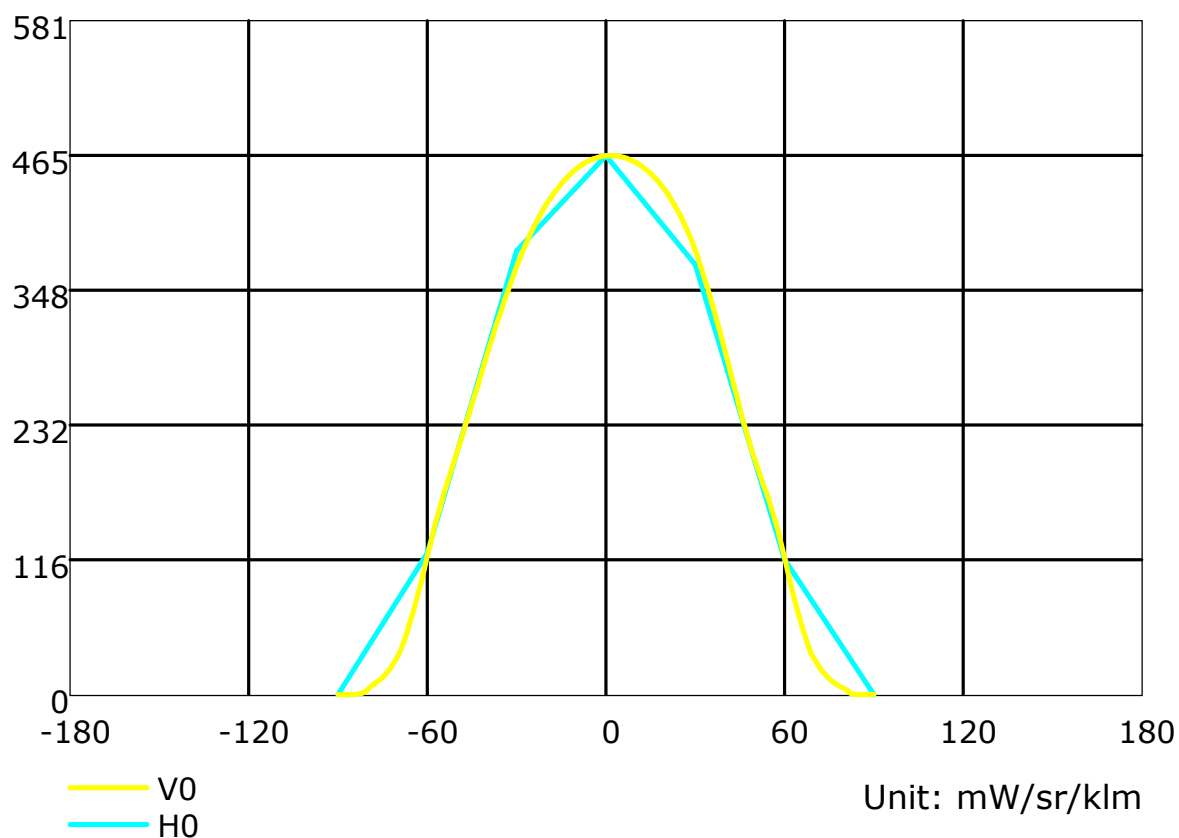
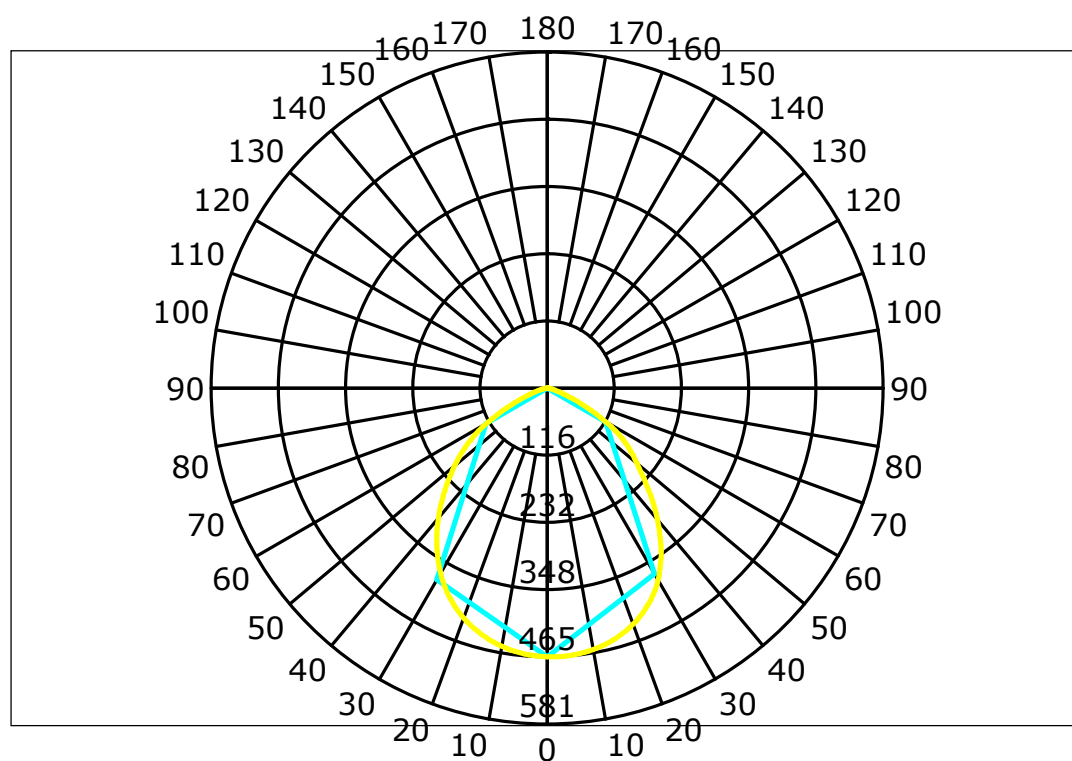
Test Device: GPM-1600L

Distance: 6.912 m

Humidity:

Inspector:

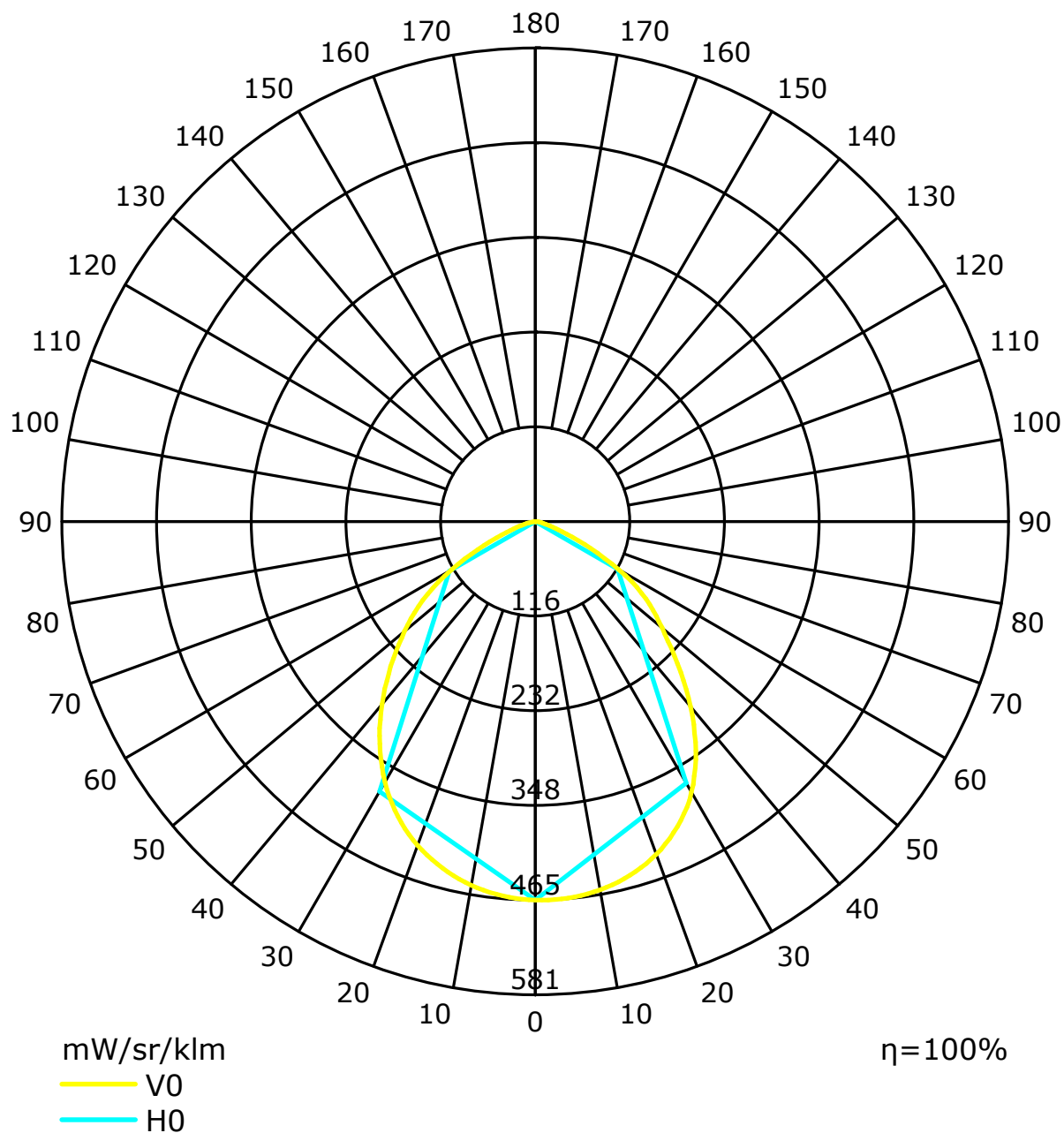
Radiation Intensity Distribution Curve



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:

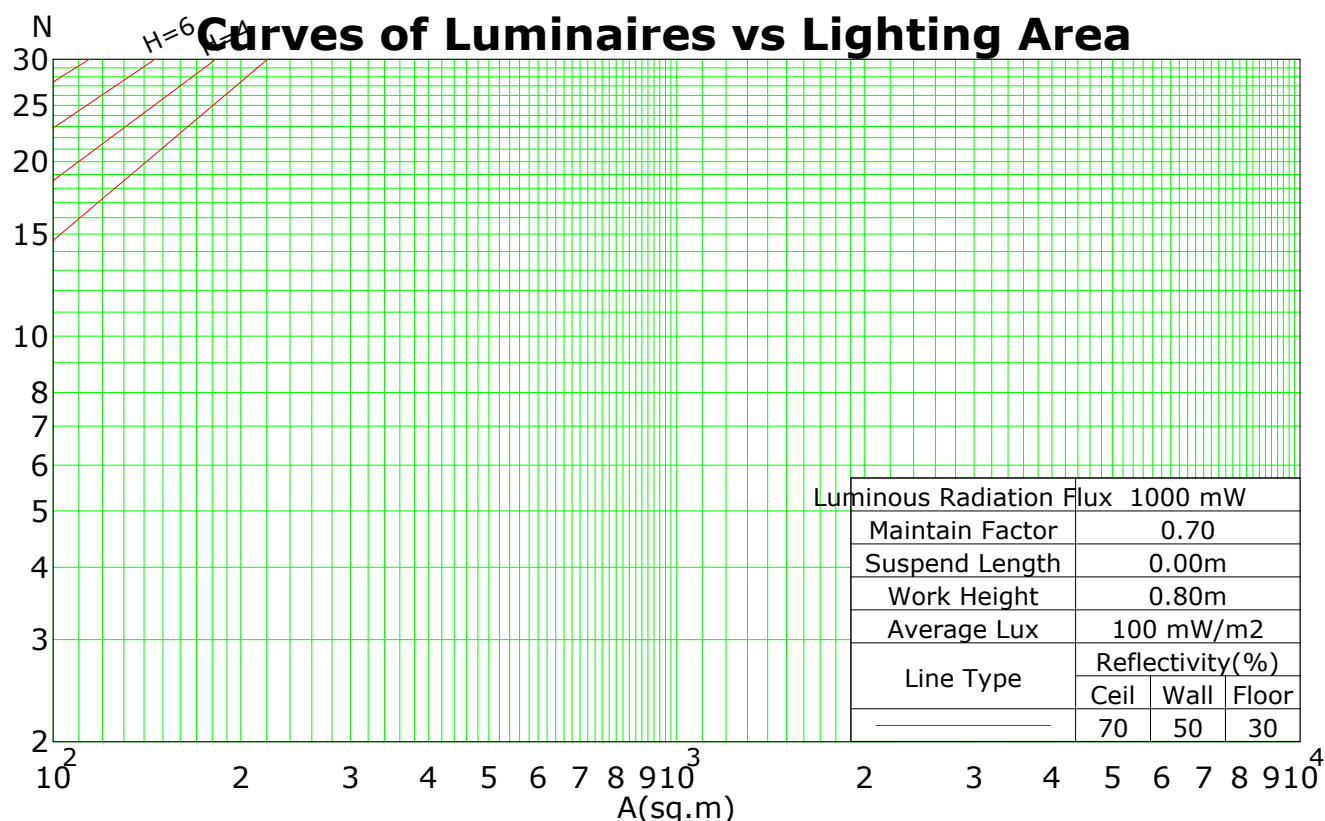
Coefficients Of Utilization - Zonal Cavity Method

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	1.10	1.06	1.02	0.99	1.08	1.04	1.01	0.97	1.00	0.97	0.94	0.96	0.94	0.92	0.92	0.91	0.89	0.87
2	1.02	0.94	0.88	0.83	0.99	0.92	0.87	0.82	0.89	0.84	0.80	0.86	0.82	0.78	0.83	0.80	0.77	0.75
3	0.94	0.84	0.77	0.71	0.91	0.82	0.76	0.70	0.80	0.74	0.69	0.77	0.72	0.68	0.74	0.70	0.67	0.65
4	0.86	0.75	0.67	0.61	0.84	0.74	0.67	0.61	0.72	0.65	0.60	0.69	0.64	0.59	0.67	0.62	0.58	0.56
5	0.80	0.68	0.60	0.53	0.78	0.67	0.59	0.53	0.65	0.58	0.53	0.63	0.57	0.52	0.61	0.56	0.52	0.50
6	0.74	0.62	0.53	0.47	0.72	0.61	0.53	0.47	0.59	0.52	0.47	0.57	0.51	0.46	0.56	0.50	0.46	0.44
7	0.69	0.56	0.48	0.42	0.67	0.55	0.48	0.42	0.54	0.47	0.42	0.53	0.46	0.41	0.51	0.46	0.41	0.39
8	0.64	0.52	0.43	0.38	0.63	0.51	0.43	0.38	0.50	0.43	0.38	0.48	0.42	0.37	0.47	0.41	0.37	0.35
9	0.60	0.47	0.40	0.34	0.59	0.47	0.39	0.34	0.46	0.39	0.34	0.45	0.38	0.34	0.44	0.38	0.34	0.32
10	0.57	0.44	0.36	0.31	0.55	0.43	0.36	0.31	0.42	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.31	0.29

Spacing Criteria (0-180): 1.20

Spacing Criteria (90-270): 1.20

Spacing Criteria (Diagonal): 1.26



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

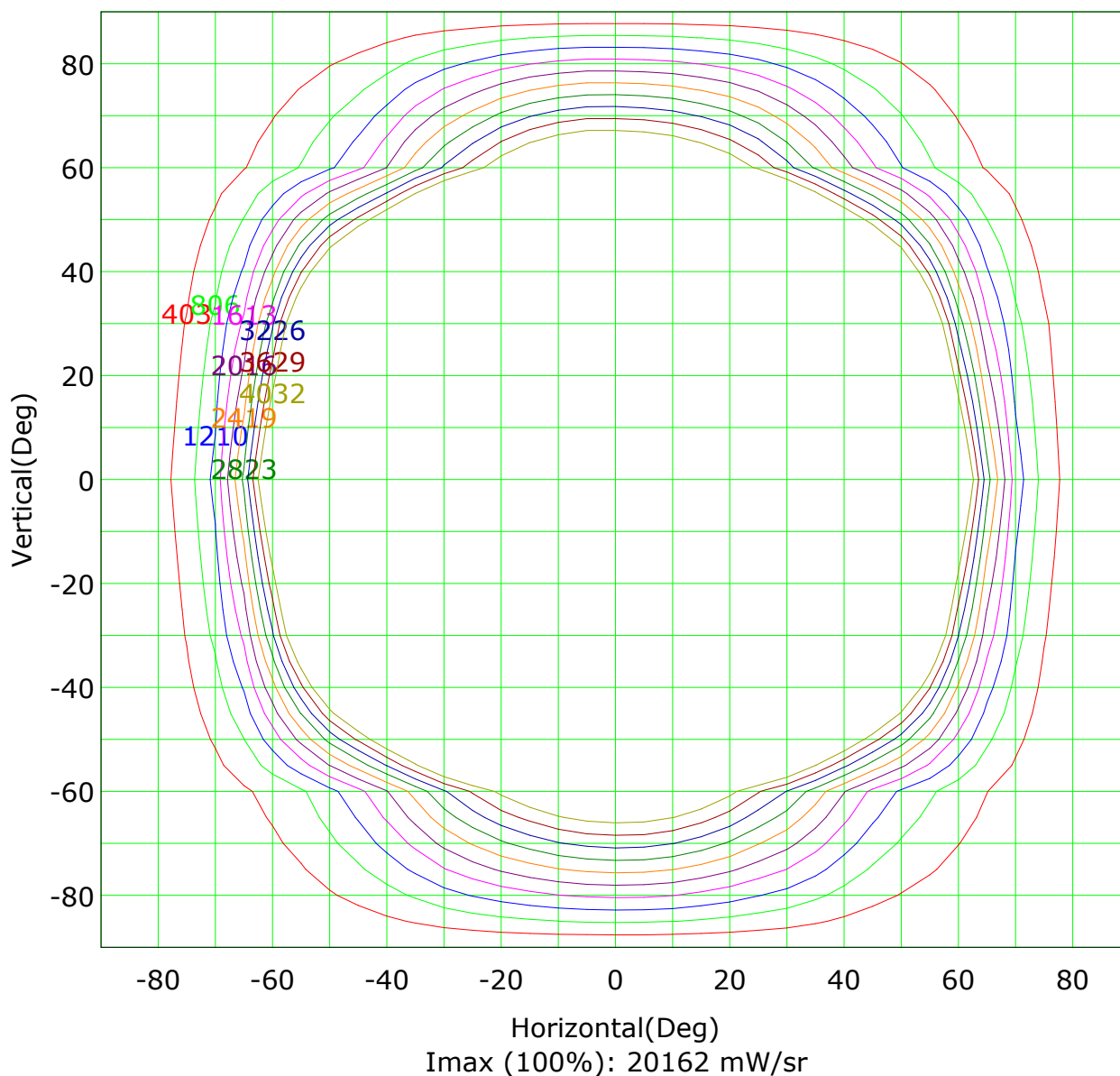
Test Device: GPM-1600L

Distance: 6.912 m

Humidity:

Inspector:

Iso Radiation intensity(rectangle)

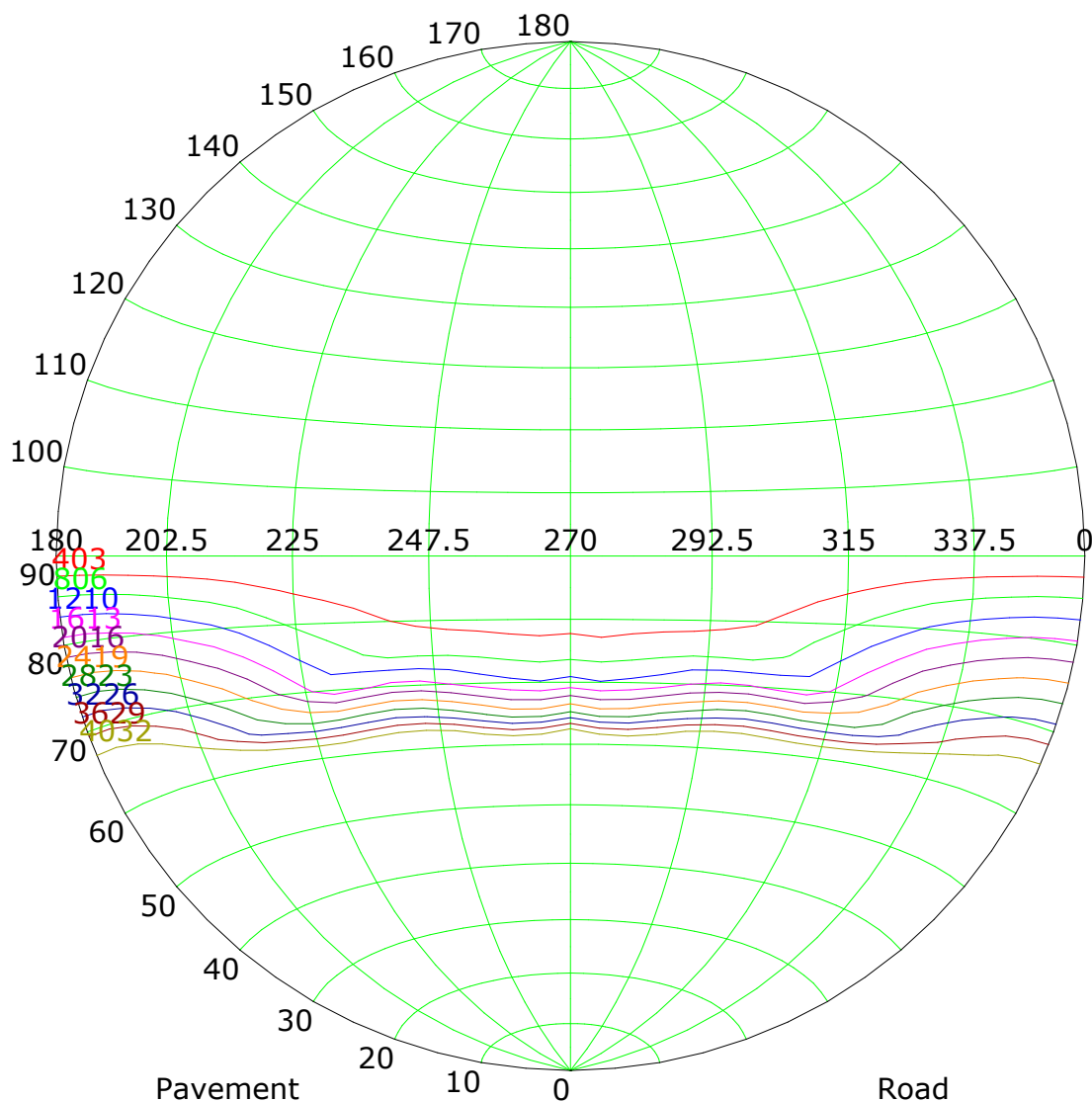


(2%): 403 mW/sr	(4%): 806 mW/sr
(6%): 1210 mW/sr	(8%): 1613 mW/sr
(10%): 2016 mW/sr	(12%): 2419 mW/sr
(14%): 2823 mW/sr	(16%): 3226 mW/sr
(18%): 3629 mW/sr	(20%): 4032 mW/sr

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%): 20162 mW/sr

(2%): 403 mW/sr	(4%): 806 mW/sr
(6%): 1210 mW/sr	(8%): 1613 mW/sr
(10%): 2016 mW/sr	(12%): 2419 mW/sr
(14%): 2823 mW/sr	(16%): 3226 mW/sr
(18%): 3629 mW/sr	(20%): 4032 mW/sr

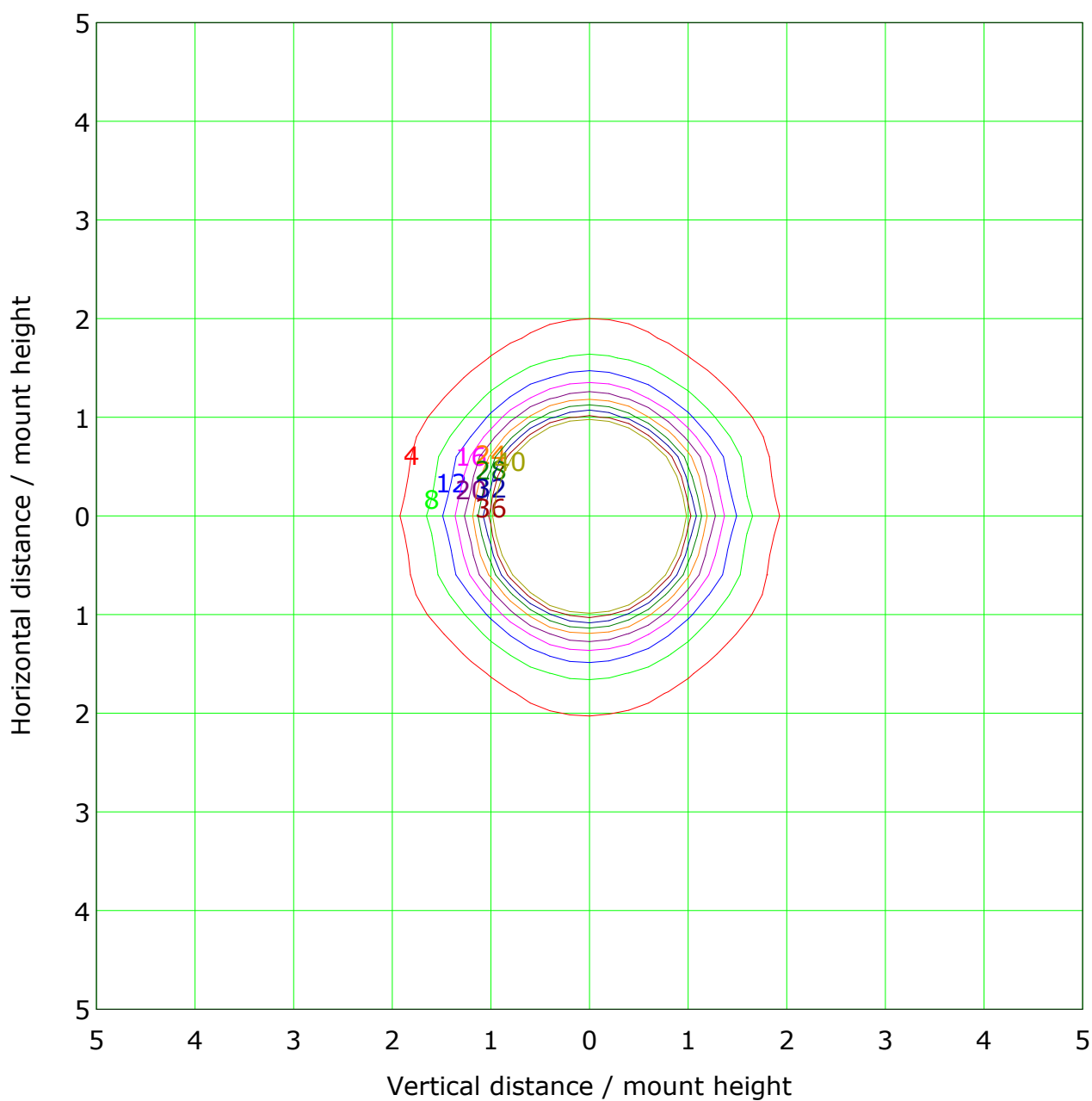
CIE: narrow - long
CIE: Non-cut-off luminaire
Max.At90: 10.729 cd/klm

IES: Cut-off
Max.At80: 10.469 cd/klm
Max.80-90: 10.729 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%): 201.5 mW/m²

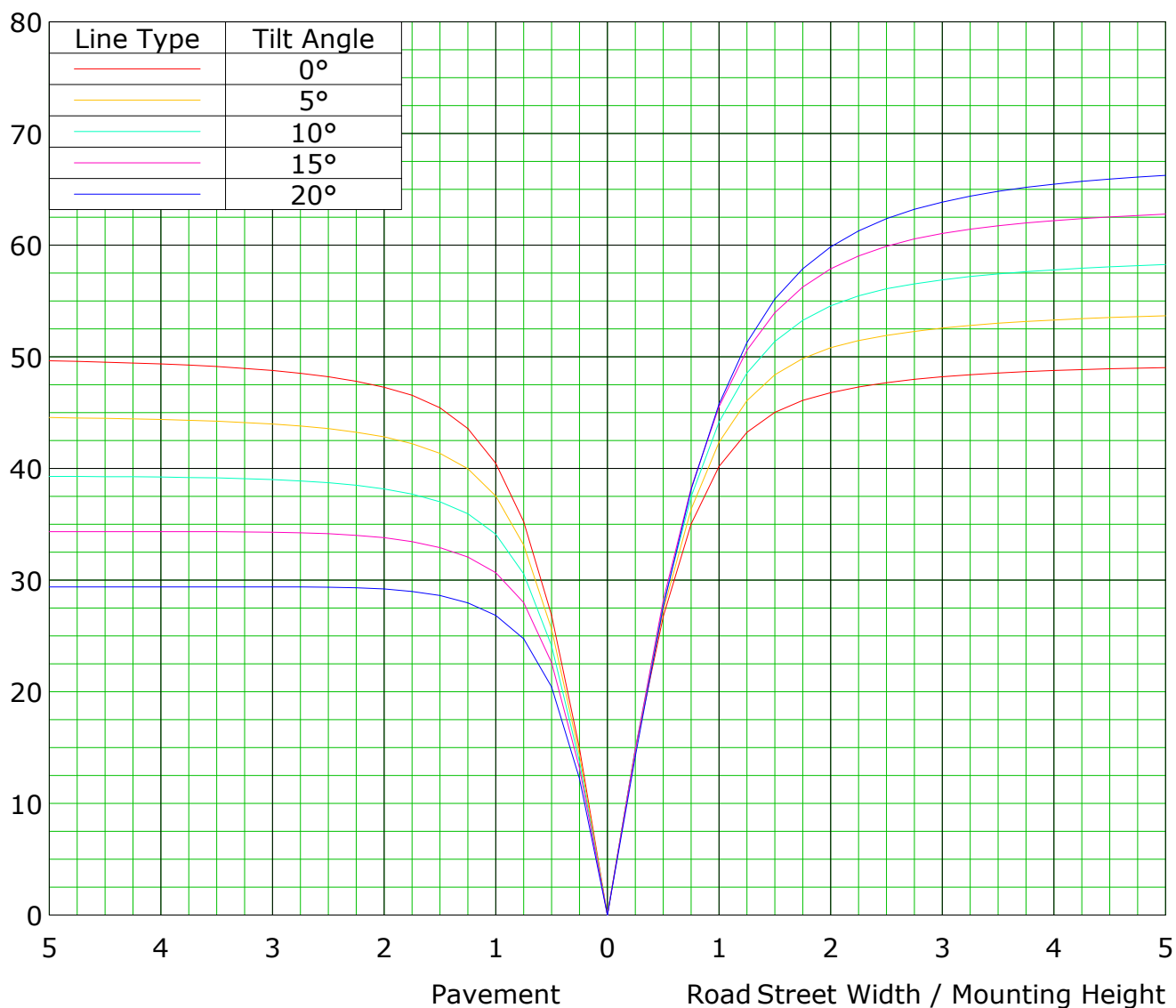
(2%): 4.0 mW/m ²	(4%): 8.1 mW/m ²
(6%): 12.1 mW/m ²	(8%): 16.1 mW/m ²
(10%): 20.2 mW/m ²	(12%): 24.2 mW/m ²
(14%): 28.2 mW/m ²	(16%): 32.2 mW/m ²
(18%): 36.3 mW/m ²	(20%): 40.3 mW/m ²

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(%)



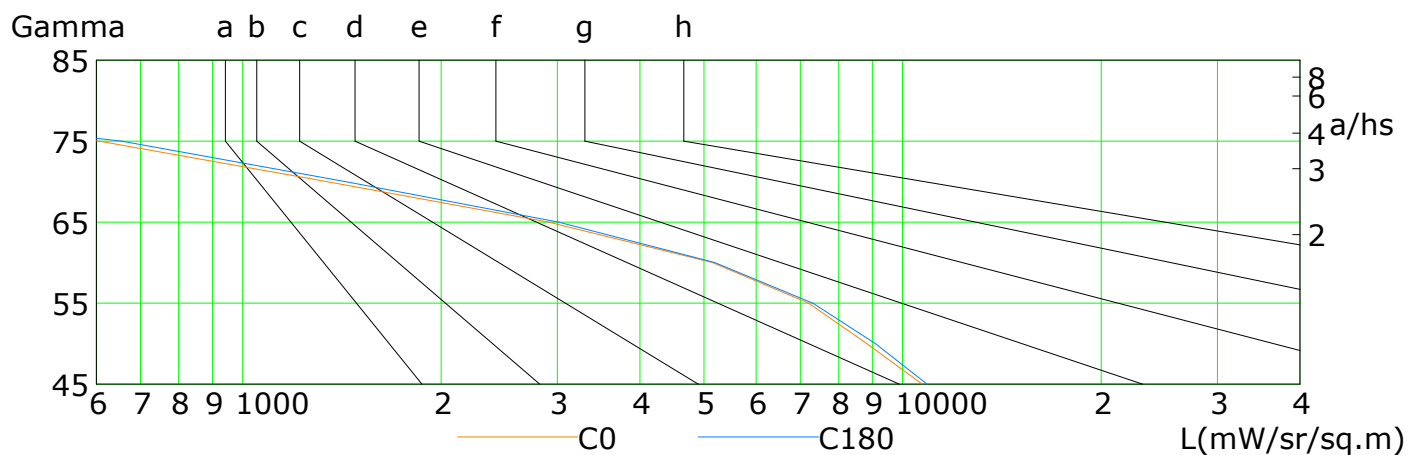
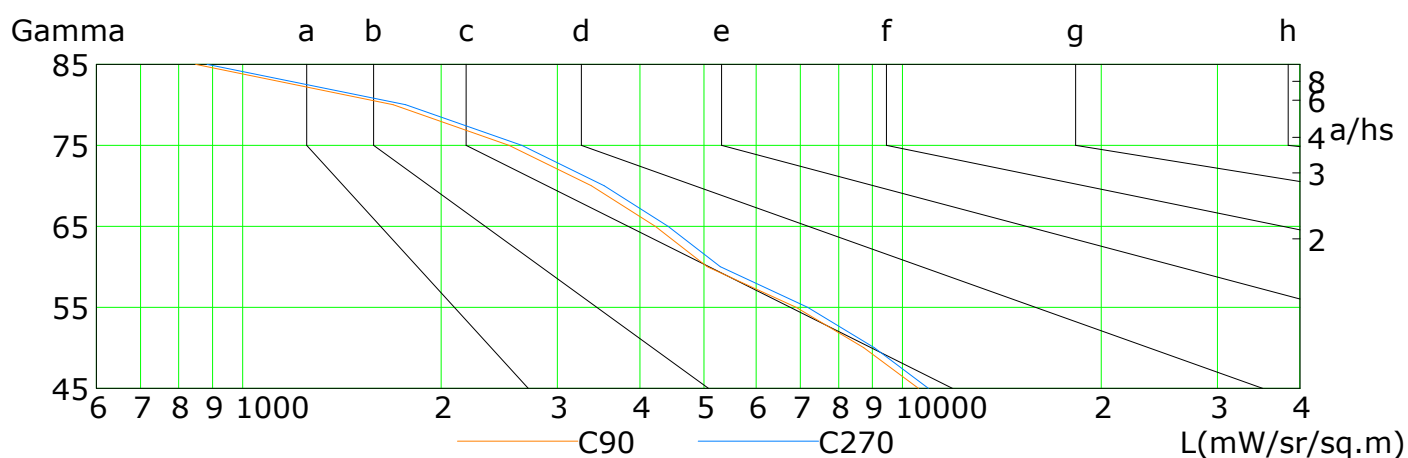
B Plane (°):-90.0-90.0: 30.0
Test Lab:
Test Type: TYPE B
Temperature:
Operator: F

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

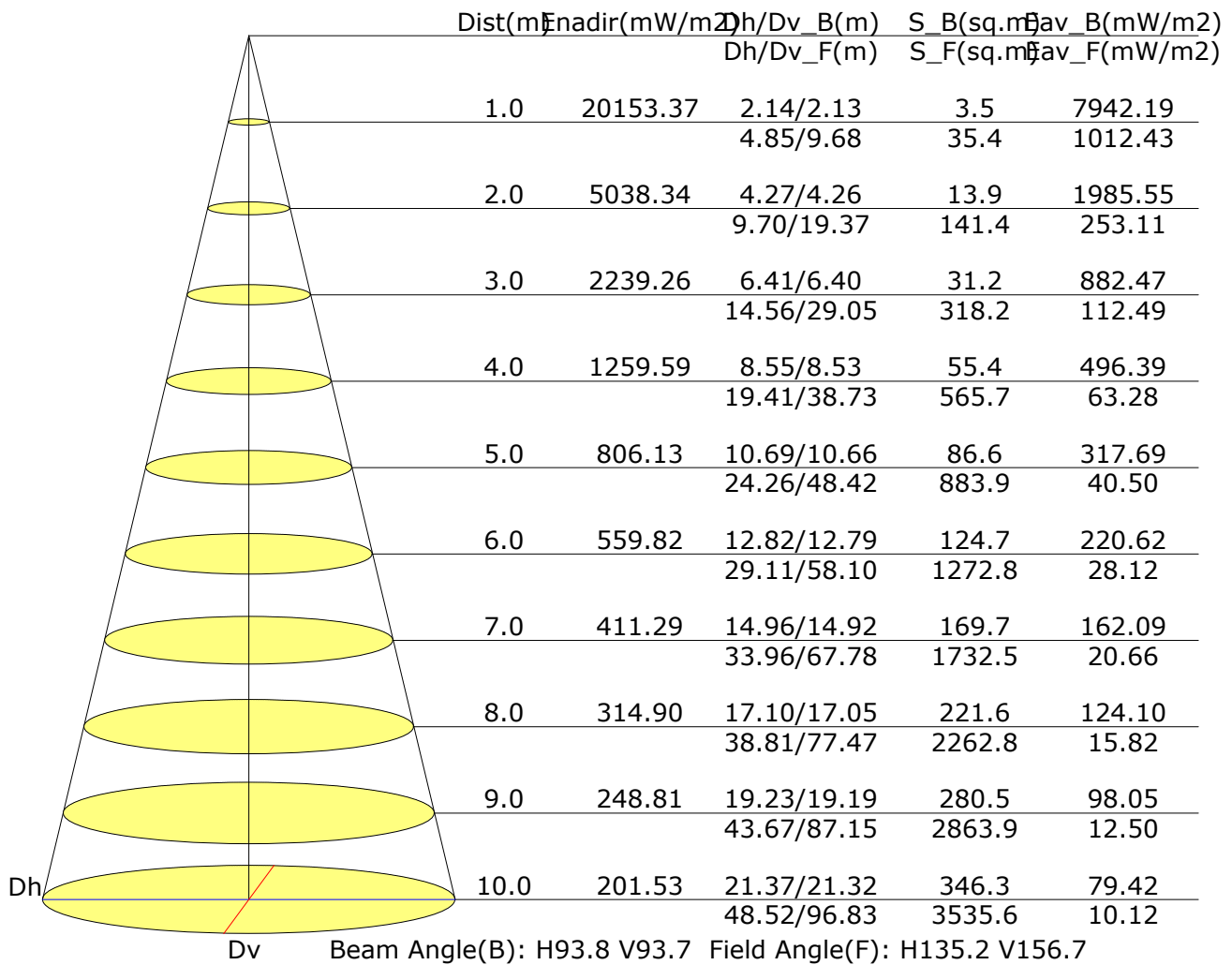


L(mW/sr/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10713	8822	7205	5146	2910	1339	606	236	2
C90	10571	8734	6897	5060	4218	3376	2533	1691	849
C180	10896	9095	7313	5187	3013	1429	656	198	2
C270	10946	9062	7178	5295	4412	3530	2648	1765	883

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:

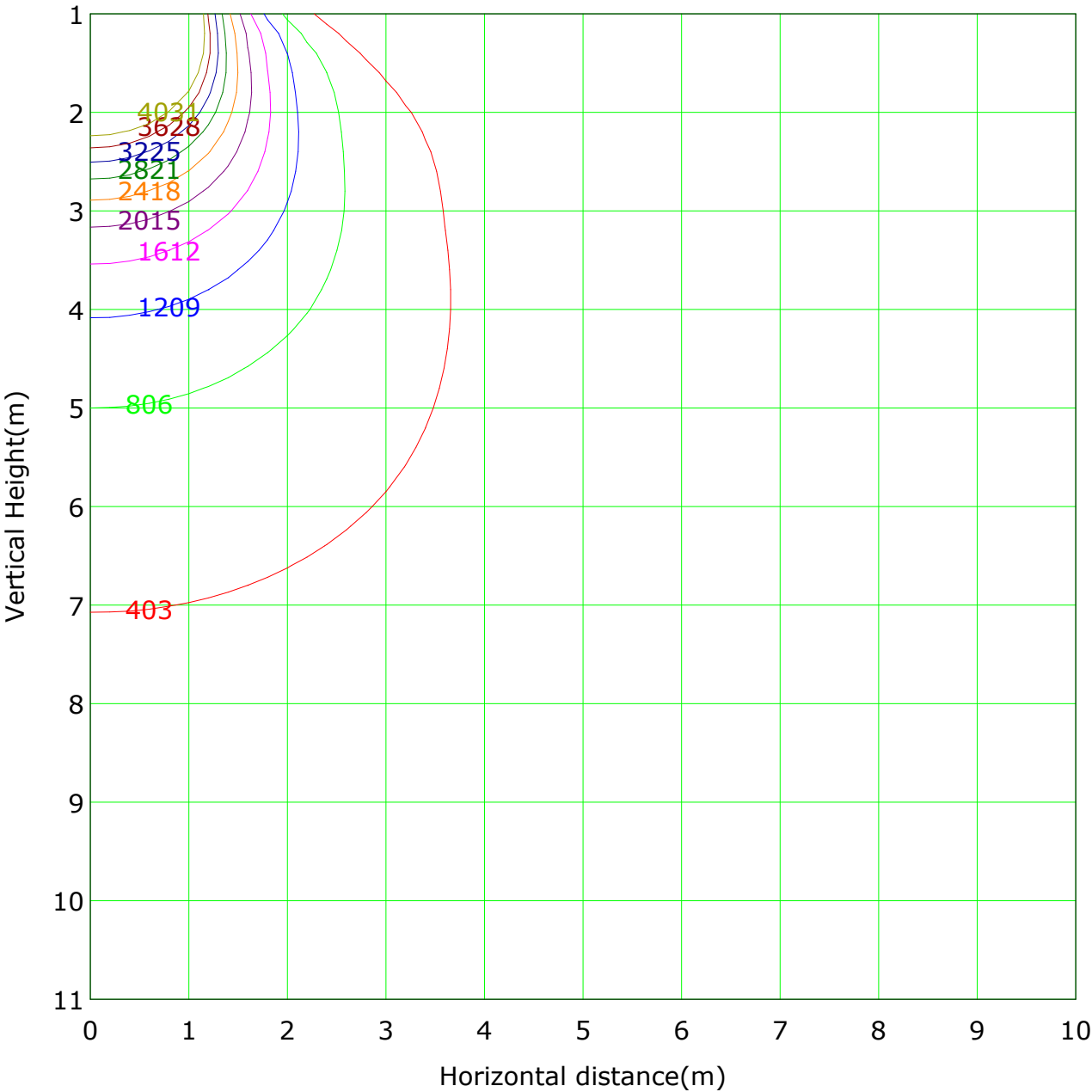
Illuminance at a Distance



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: 20153.4 mW/m2

(2%): 403.1 mW/m2	(4%): 806.1 mW/m2
(6%):1209.2 mW/m2	(8%):1612.3 mW/m2
(10%):2015.3 mW/m2	(12%):2418.4 mW/m2
(14%):2821.5 mW/m2	(16%):3224.5 mW/m2
(18%):3627.6 mW/m2	(20%):4030.7 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

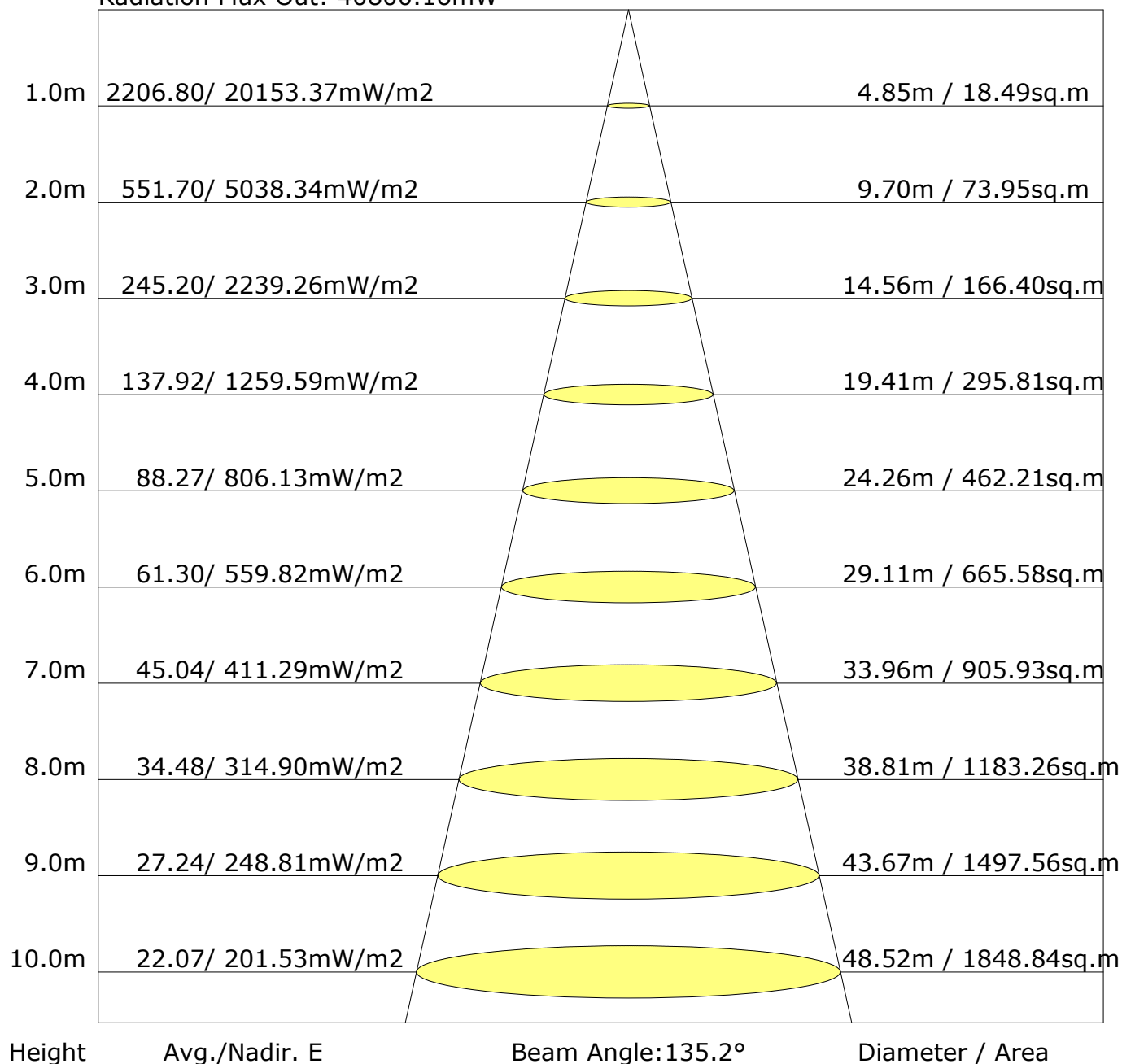
Vertical plane	Circ. HWV/NIH																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\int_0^{\text{Flux(T)}} \text{Flux(E)}$	$\int_0^{\text{Flux(E)}} \text{Flux(T)}$
-90	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.5	0.6	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.0	4.1	0.0
-80	0.0	0.0	0.1	0.2	0.4	0.8	1.3	1.6	1.8	1.8	1.6	1.2	0.8	0.4	0.1	0.1	0.0	0.0	12.2	7.2
-70	0.0	0.0	0.1	0.3	0.7	1.3	2.1	2.7	3.0	3.1	2.7	2.0	1.3	0.6	0.3	0.1	0.0	0.0	20.4	17.7
-60	0.0	0.0	0.2	0.6	1.4	2.4	3.5	4.4	4.9	5.0	4.5	3.5	2.3	1.3	0.6	0.3	0.2	0.0	34.9	33.3
-50	0.0	0.1	0.3	1.2	2.4	3.9	5.5	6.8	7.6	7.6	6.9	5.6	3.9	2.4	1.2	0.3	0.1	0.0	55.8	54.9
-40	0.0	0.1	0.5	1.7	3.5	5.5	7.5	9.2	10.2	10.2	9.3	7.6	5.5	3.5	1.7	0.5	0.1	0.0	76.7	75.9
-30	0.0	0.1	0.6	2.1	4.3	6.6	8.9	10.8	11.9	12.0	11.0	9.1	6.7	4.3	2.2	0.6	0.1	0.0	91.3	90.7
-20	0.0	0.1	0.8	2.5	4.7	7.3	9.8	11.7	12.7	12.8	11.9	10.0	7.4	4.7	2.5	0.7	0.1	0.0	99.7	99.1
-10	0.0	0.1	0.9	2.8	5.2	8.0	10.6	12.5	13.5	13.6	12.8	10.9	8.2	5.2	2.8	0.9	0.1	0.0	108.0	107.5
0	0.0	0.1	0.9	2.8	5.2	8.0	10.6	12.5	13.5	13.6	12.7	10.9	8.2	5.2	2.7	0.9	0.1	0.0	107.9	107.4
10	0.0	0.1	0.8	2.5	4.8	7.3	9.7	11.5	12.5	12.6	11.8	10.0	7.4	4.7	2.5	0.7	0.1	0.0	99.2	98.7
20	0.0	0.1	0.7	2.2	4.4	6.7	8.9	10.6	11.6	11.7	10.8	9.1	6.7	4.3	2.2	0.6	0.1	0.0	90.5	89.9
30	0.0	0.1	0.5	1.8	3.6	5.5	7.4	9.0	9.8	9.9	9.1	7.6	5.5	3.5	1.7	0.5	0.1	0.0	75.7	75.0
40	0.0	0.1	0.4	1.2	2.5	3.9	5.4	6.6	7.3	7.3	6.7	5.5	3.9	2.4	1.2	0.3	0.1	0.0	54.7	53.8
50	0.0	0.0	0.2	0.6	1.3	2.3	3.4	4.3	4.8	4.8	4.3	3.4	2.3	1.3	0.6	0.2	0.0	0.0	33.8	32.1
60	0.0	0.0	0.1	0.3	0.6	1.3	2.0	2.6	2.9	2.9	2.5	2.0	1.2	0.6	0.3	0.1	0.0	0.0	19.4	16.6
70	0.0	0.0	0.1	0.2	0.4	0.8	1.2	1.5	1.8	1.7	1.5	1.2	0.7	0.4	0.2	0.1	0.0	0.0	11.7	6.2
80	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.5	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.0	0.0	3.9	0.0
90	0.0	1.1	7.0	23.1	45.7	72.1	98.5	119.4	131.0	131.8	121.3	100.5	72.7	45.0	22.8	6.8	1.1	0.0	1000	
Flux(E)	0.0	0.0	4.1	21.0	43.0	69.5	96.5	117.6	129.4	130.2	119.5	98.4	70.0	42.3	20.8	3.9	0.0	0.0		966

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: 40800.16mW



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:

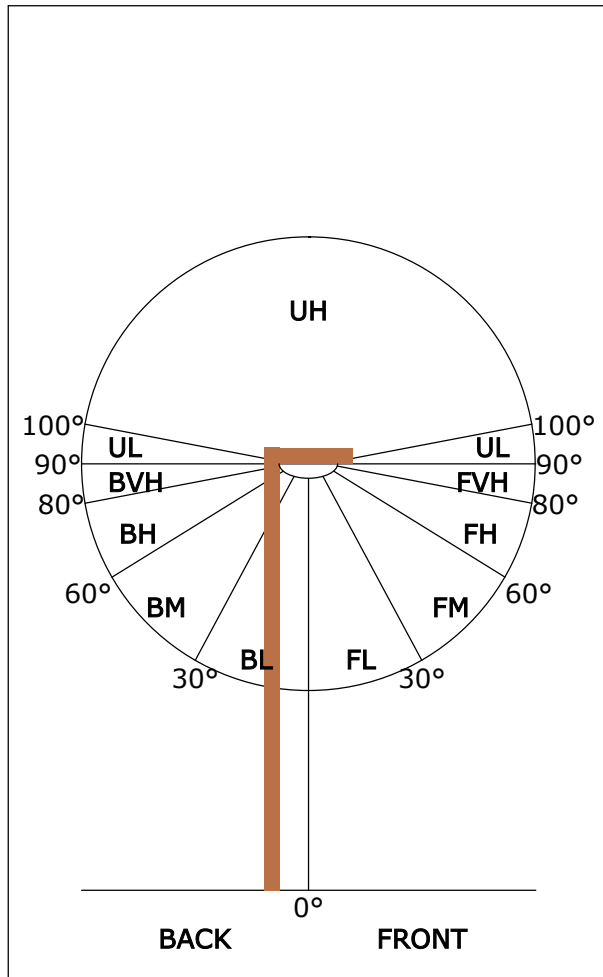
UGR Table

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 43341lm ($8\log(F/F_0) = 13.1$).

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

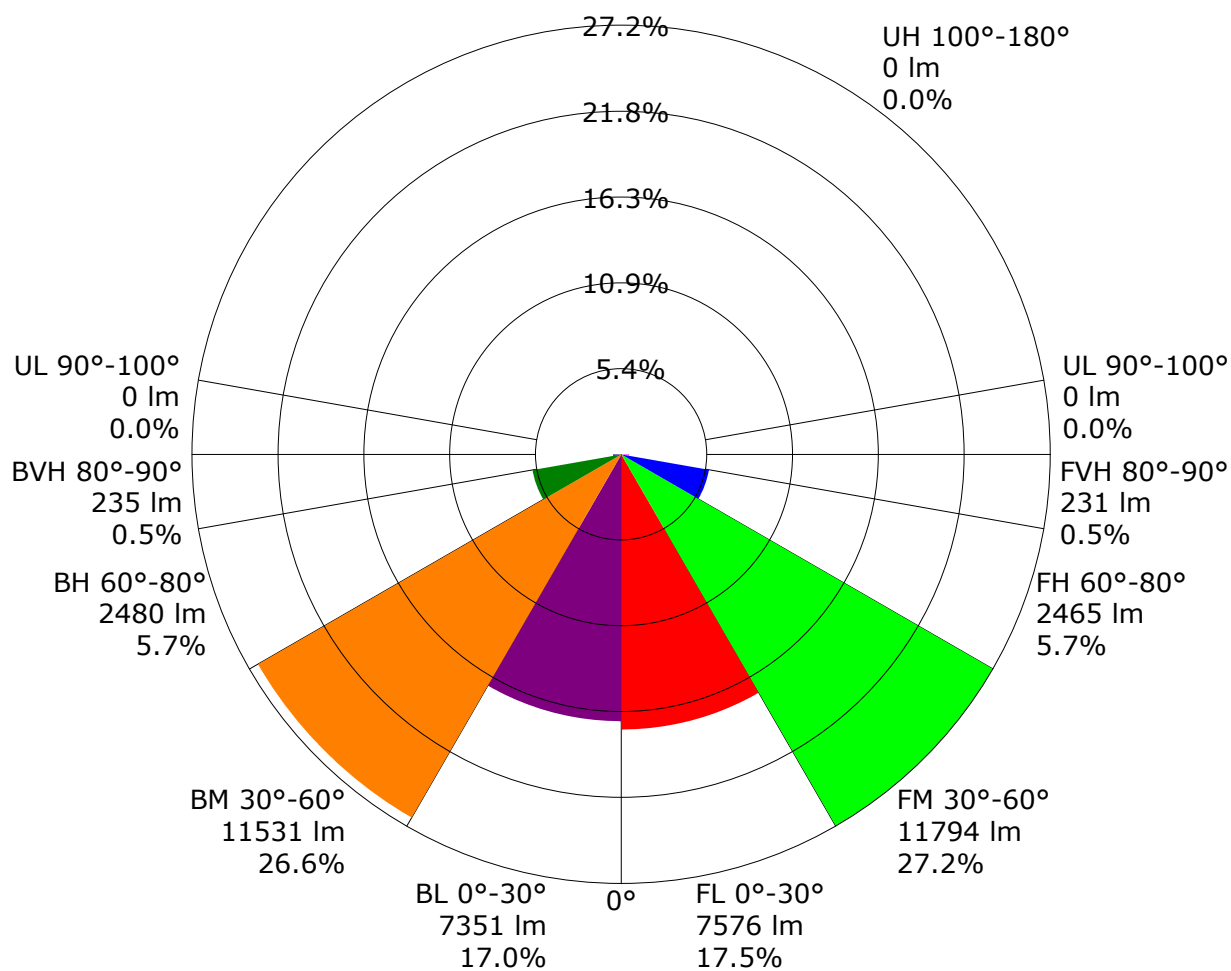
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	22066	50.9
FL (0°-30°)	7576	17.5
FM (30°-60°)	11794	27.2
FH (60°-80°)	2465	5.7
FVH (80°-90°)	231	0.5
BACK LIGHT	21598	49.8
BL (0°-30°)	7351	17.0
BM (30°-60°)	11531	26.6
BH (60°-80°)	2480	5.7
BVH (80°-90°)	235	0.5
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	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)	B5 U5 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B5 U5 G2

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 = 1.25									
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	0.60	0.69	0.76	0.80	0.86	0.90	0.93	0.96	0.98	
	0.30		0.54	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.96	
	0.20		0.49	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93	
0.50	0.50	0.20	0.59	0.68	0.74	0.78	0.83	0.87	0.89	0.92	0.94	
	0.30		0.53	0.62	0.69	0.73	0.79	0.83	0.86	0.90	0.92	
	0.20		0.49	0.58	0.65	0.70	0.76	0.81	0.84	0.88	0.90	
0.30	0.50	0.20	0.57	0.66	0.72	0.76	0.81	0.84	0.86	0.89	0.91	
	0.30		0.52	0.61	0.68	0.72	0.78	0.81	0.84	0.87	0.89	
	0.20		0.49	0.58	0.64	0.69	0.75	0.79	0.82	0.85	0.88	
0.00	0.00	0.00	0.47	0.56	0.62	0.66	0.72	0.76	0.78	0.81	0.83	
Rating:253W 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 = 1.25									
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	0.80	0.64	0.53	0.46	0.36	0.29	0.25	0.19	0.15	
	0.30		0.66	0.55	0.46	0.40	0.32	0.27	0.23	0.18	0.15	
	0.20		0.57	0.48	0.41	0.36	0.29	0.25	0.21	0.17	0.14	
0.50	0.50	0.20	0.77	0.61	0.51	0.43	0.34	0.31	0.23	0.18	0.14	
	0.30		0.65	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14	
	0.20		0.56	0.47	0.40	0.35	0.29	0.24	0.21	0.16	0.13	
0.30	0.50	0.20	0.74	0.58	0.48	0.41	0.32	0.26	0.22	0.17	0.14	
	0.30		0.63	0.52	0.43	0.38	0.30	0.25	0.21	0.16	0.13	
	0.20		0.56	0.46	0.39	0.34	0.28	0.23	0.20	0.15	0.13	
0.00	0.00	0.00	0.45	0.36	0.30	0.26	0.20	0.16	0.14	0.11	0.09	
Rating:253W 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 = 1.25									
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	0.14	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.20	
	0.30		0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.50	0.50	0.20	0.13	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	
	0.30		0.08	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.15	
0.30	0.50	0.20	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	
	0.30		0.08	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.16	
	0.20		0.05	0.06	0.08	0.09	0.10	0.12	0.13	0.14	0.15	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:253W 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°): 27981.13 mW

%lum = 64.6%
%lamp = 64.6%

cone flux(120°): 37999.19 mW

%lum = 87.7%
%lamp = 87.7%

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:

1	42000000	00000000	00000000	00000000	0.0	0.4	0.2	0.0	0.0	20095935429103452000.0	-0.0
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B Plane (°):-90.0-90.0: 30.0	Beta Plane (°):-90.0-90.0:1.0
Test Lab:	Test Device: GPM-1600L
Test Type: TYPE B	Distance: 6.912 m
Temperature:	Humidity:
Operator: F	Inspector:

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

[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 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:

96004788

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: