Report No.: Test Time: 2025/10/27 星期一 10:33

Luminaire Property

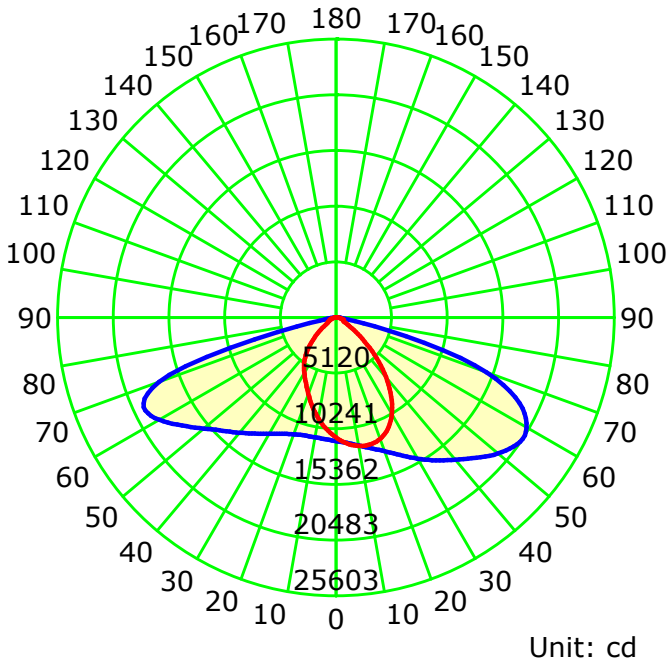
Luminaire Manufacturer:
Luminaire Category: Luminaire Description: MZ-250W
Lamp Catalog: Lamp Description:
Number of Lamps: Lumens per Lamp:
Luminous Length (mm): Luminous Width (mm):
Luminous Height (mm): Voltage: 219.82 V
Current: 1.1239 A Power: 246.64 W
Power Factor: 0.9982

Photometric Results

IES Classification: Type I Longitudinal Classification: Short
Total Rated Lamp Lumens: 36438.7 lm Measurement Flux: 36438.7 lm
Efficiency: 100% Downward Ratio: 100%
Upward Ratio: 0% Luminous Efficacy (lm/w): 147.74
C0r0 Intensity: 11361.82 cd Max. Intensity: 20483.06 cd
Pos of Max. Intensity: H0 V57
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.0, 71.8, 88.9, 100.4

Picture Of Luminaire

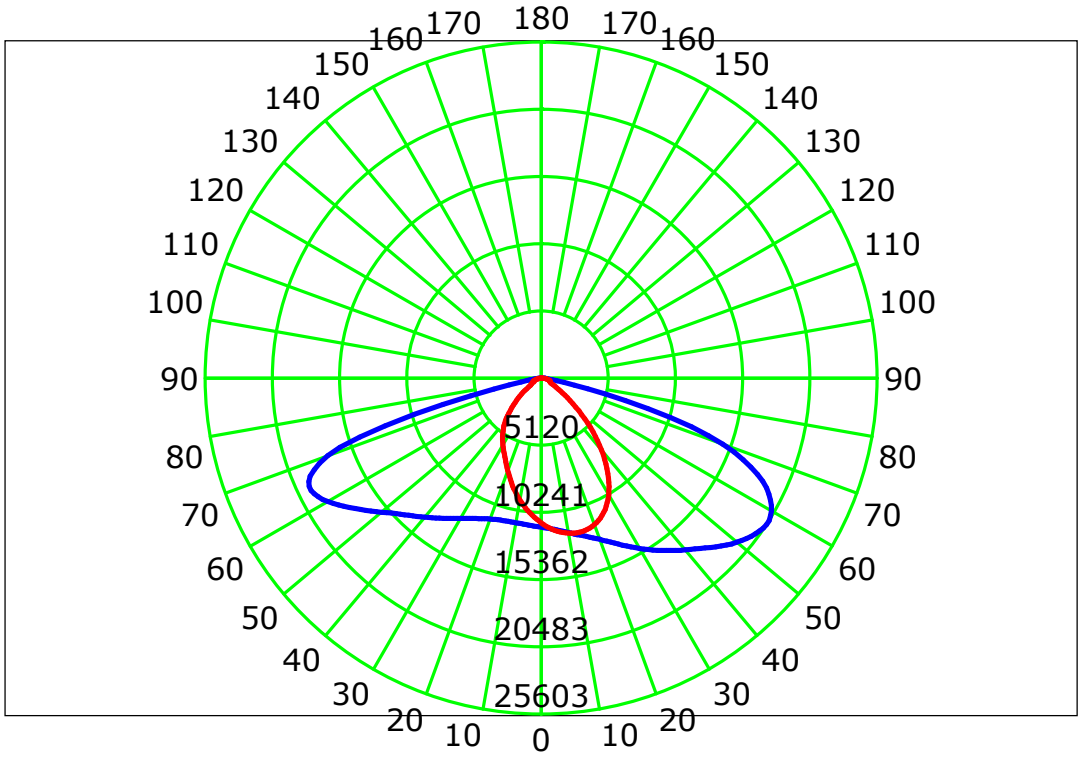
Luminous Intensity Distribution Curve

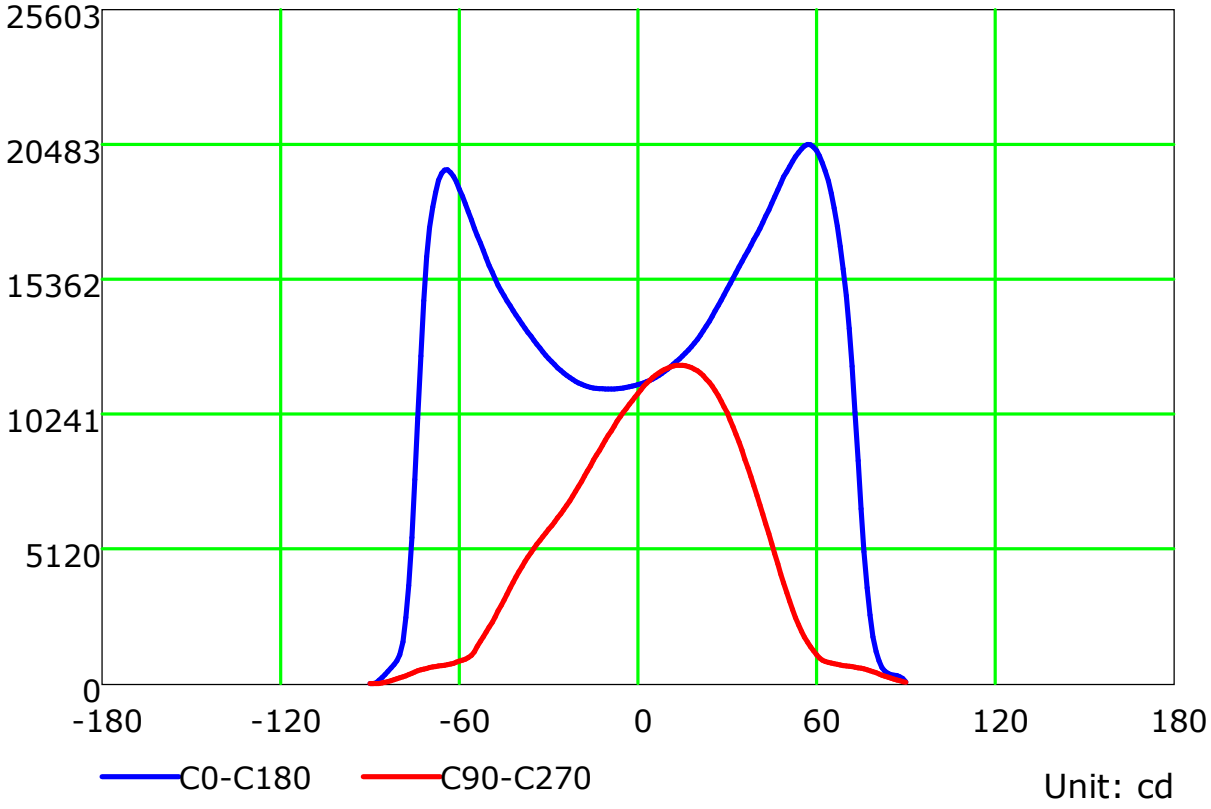


Unit: cd
Average Diffuse Angle(50%): 109.4°
C0-C180 C90-C270

C Plane (°):0.0-360.0: 15.0 Gamma Plane (°):0.0-90.0:1.0
Test Lab: Test Device: GPM-3000
Test Type: TYPE C Distance: 16.601 m [K=1.0000]
Temperature: 23.5 'C Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

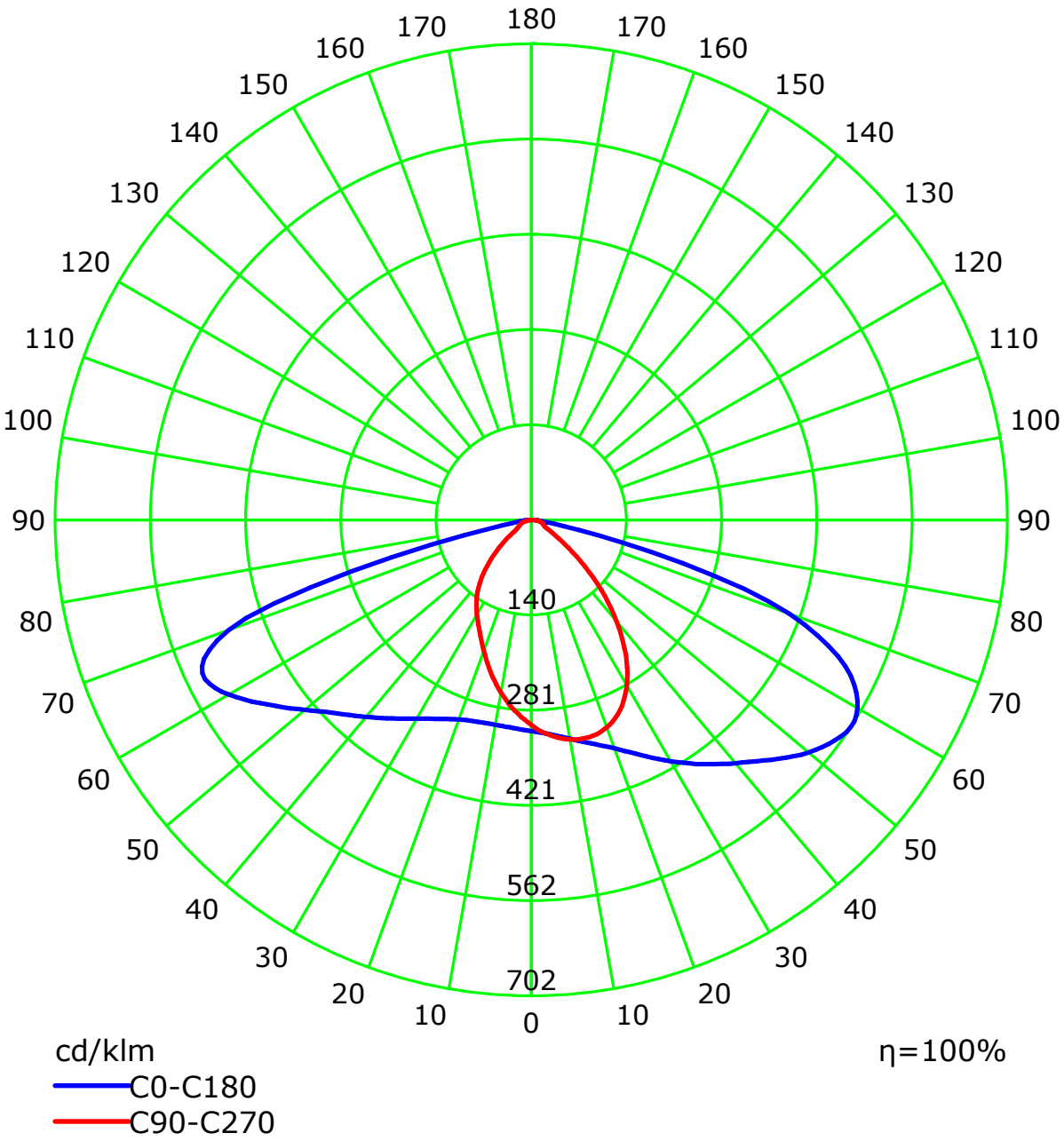




C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

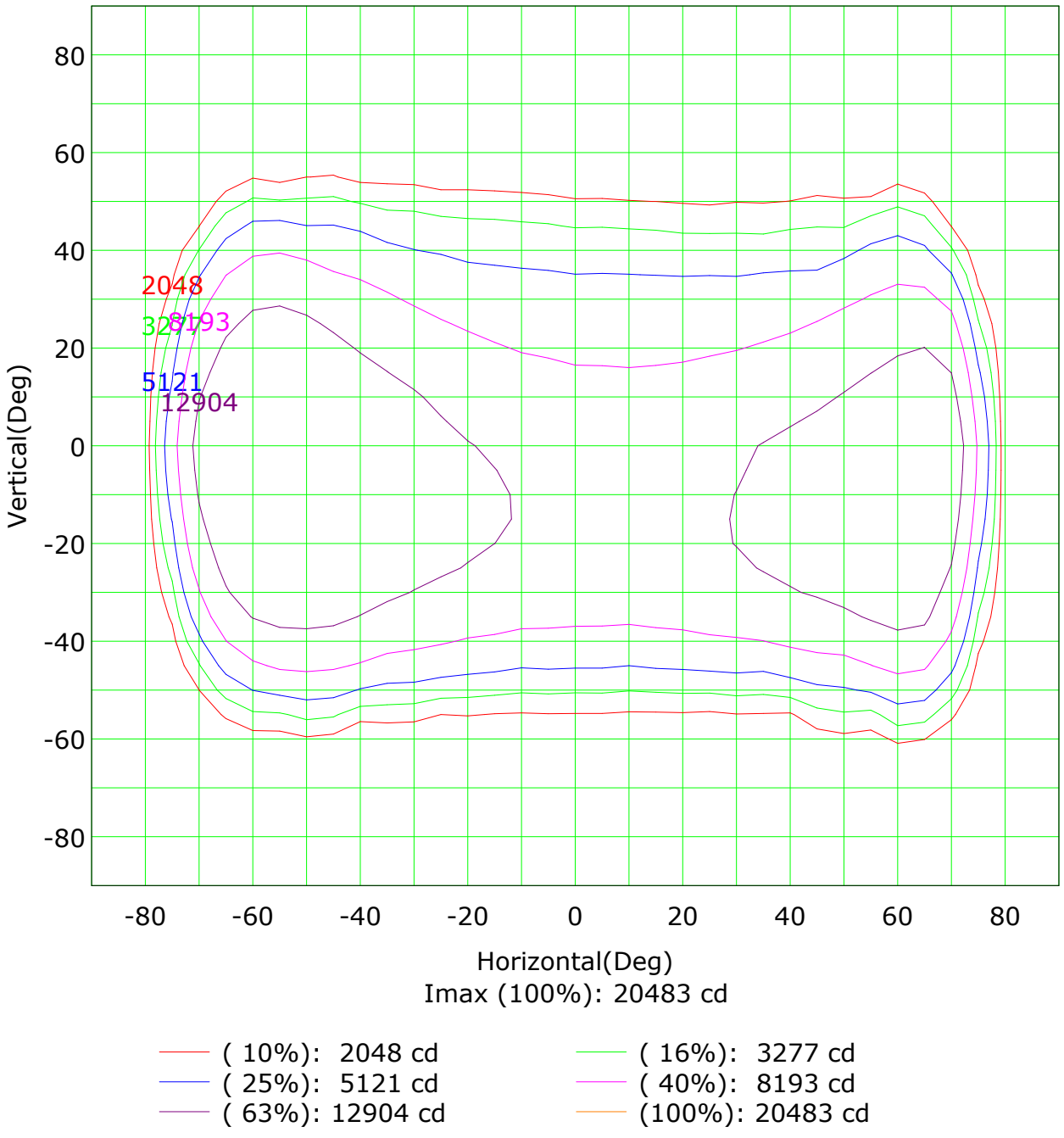
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

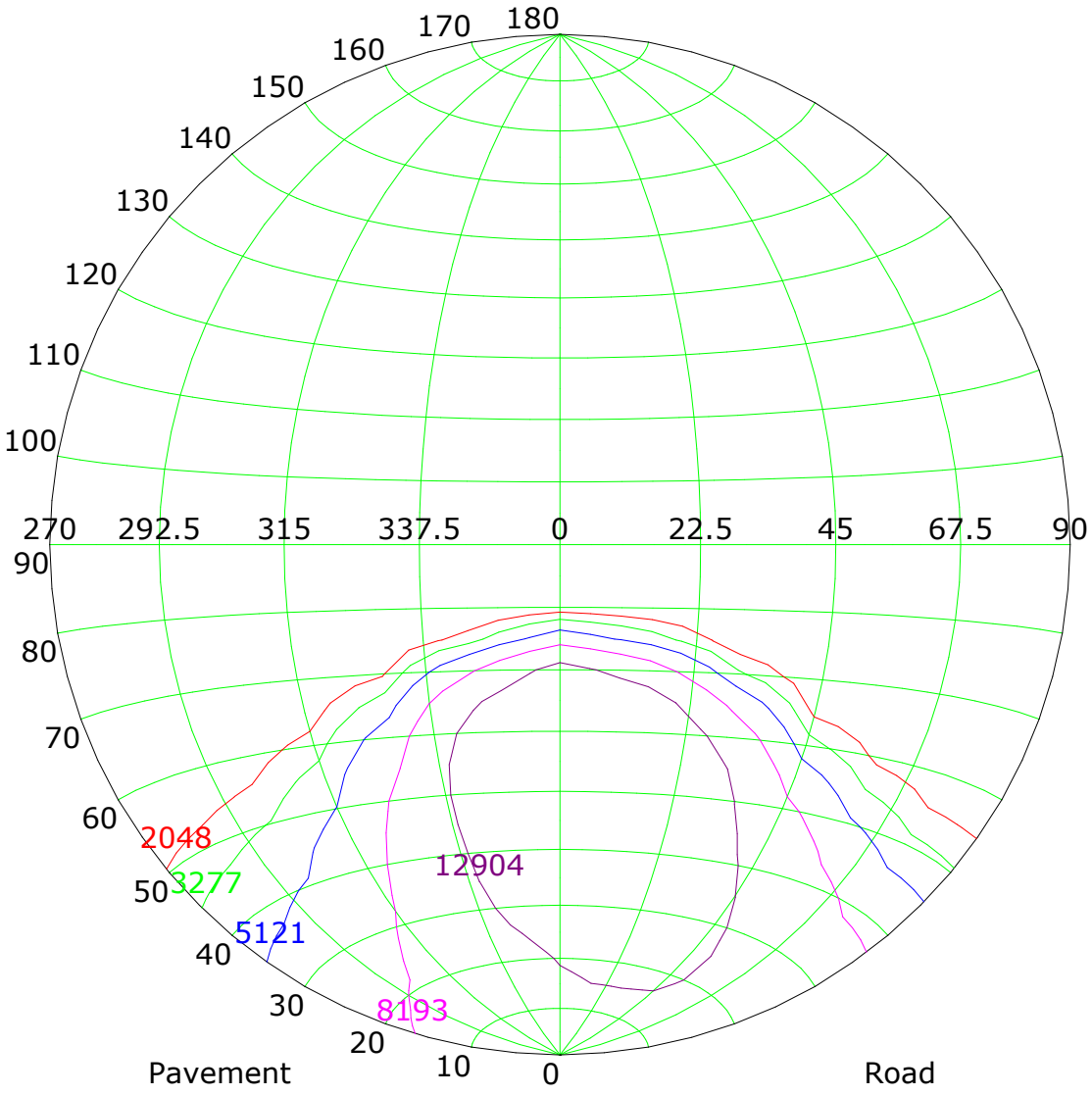
Isocandela (rectangle)



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 20483 cd

(10%): 2048 cd
(16%): 3277 cd
(25%): 5121 cd
(40%): 8193 cd
(63%): 12904 cd
(100%): 20483 cd

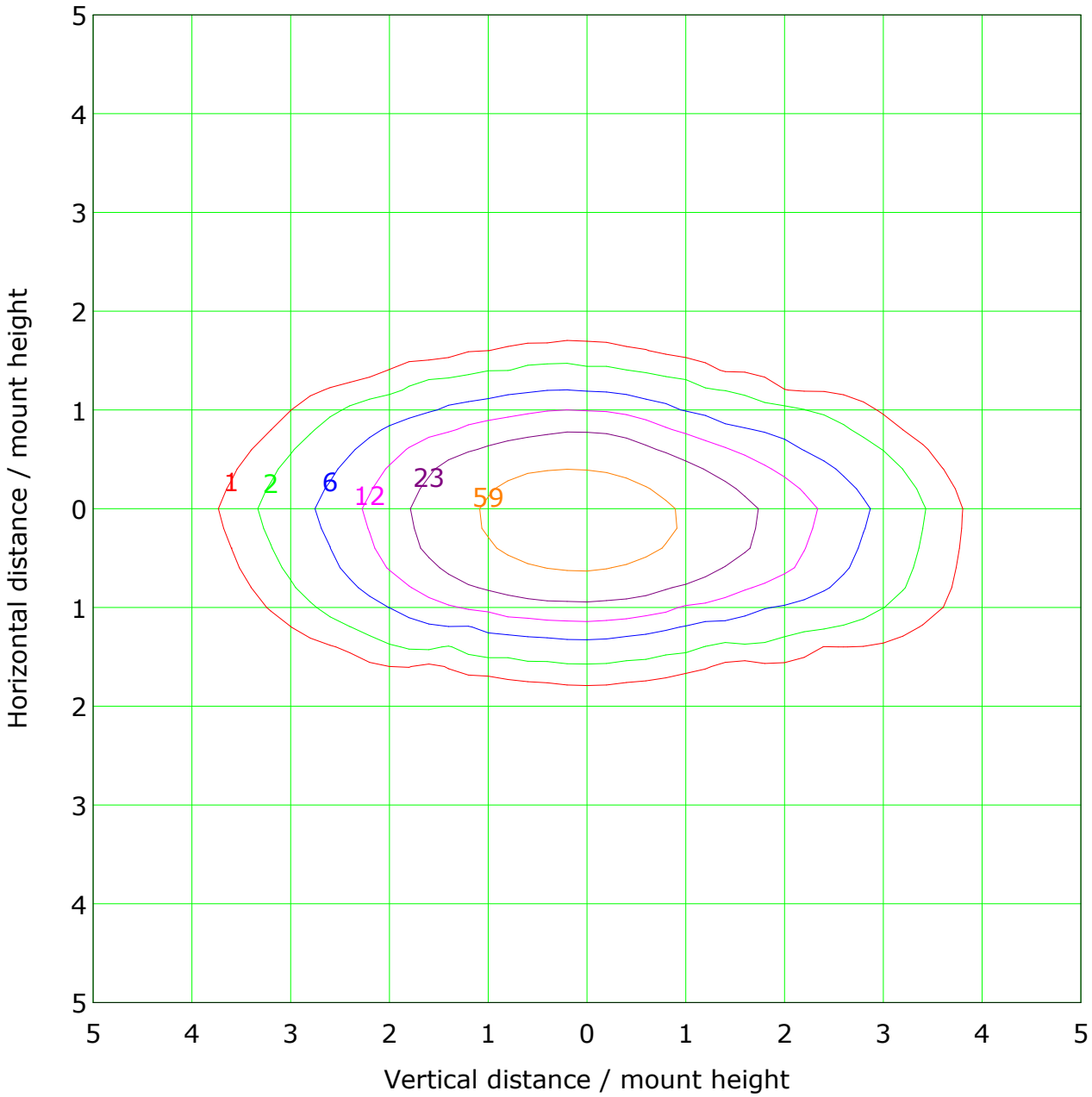
CIE: narrow - short
CIE: Semi-cut-off luminaire
Max.At90: 2.808 cd/klm

IES: Cut-off
Max.At80: 40.770 cd/klm
Max.80-90: 40.770 cd/klm

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

IsoLux Plot

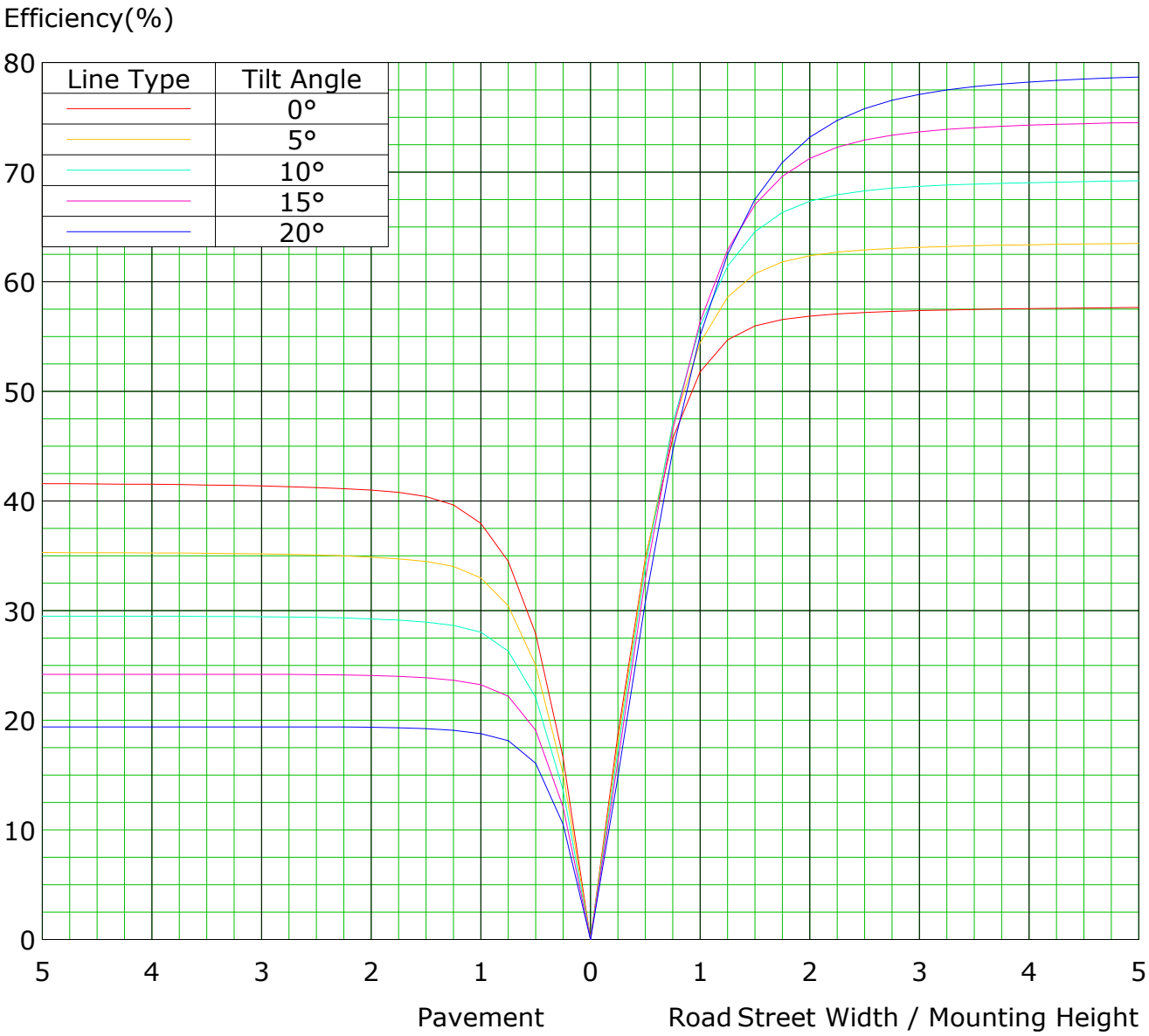


Mounting Height: 10.0m
Max Lux(100%): 117.5 lx

(1%): 1.2 lx
(2%): 2.3 lx
(5%): 5.9 lx
(10%): 11.7 lx
(20%): 23.5 lx
(50%): 58.7 lx
(100%): 117.5 lx

C Plane (°):0.0-360.0: 15.0
Gamma Plane (°):0.0-90.0:1.0
Test Lab:
Test Device: GPM-3000
Test Type: TYPE C
Distance: 16.601 m [K=1.0000]
Temperature: 23.5 'C
Humidity:
Operator:
Inspector:

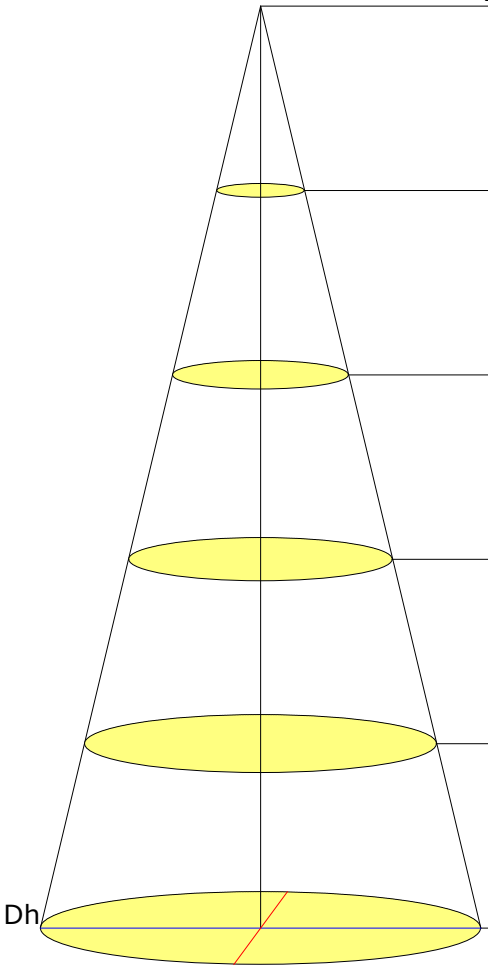
Roadway CU Curve



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

Illuminance at a Distance



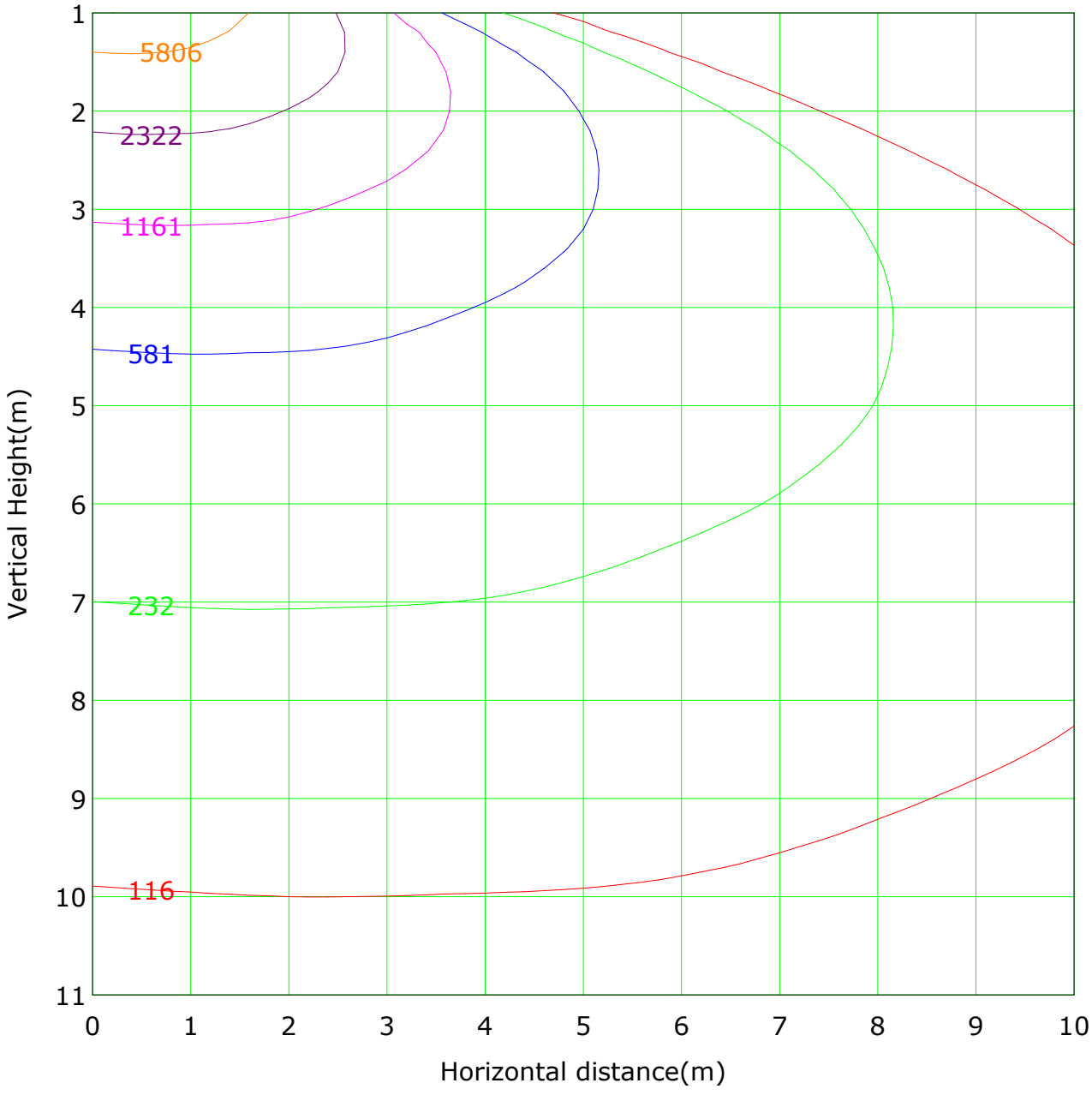
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	113.62	67.44/14.47	1112.3	14.31
20.0	28.40	134.89/28.94	4449.3	3.58
30.0	12.62	202.33/43.41	10011.0	1.59
40.0	7.10	269.78/57.88	17797.3	0.89
50.0	4.54	337.22/72.35	27808.3	0.57

Beam Angle(B): H147.0 V71.8 Field Angle(F): H157.2 V114.3

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 11611.6 lx

(1%): 116.1 lx
(2%): 232.2 lx
(5%): 580.6 lx
(10%):1161.2 lx
(20%):2322.3 lx
(50%):5805.8 lx
(100%):11611.6 lx

C Plane (°):0.0-360.0: 15.0
Gamma Plane (°):0.0-90.0:1.0
Test Lab:
Test Device: GPM-3000
Test Type: TYPE C
Distance: 16.601 m [K=1.0000]
Temperature: 23.5 'C
Humidity:
Operator:
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(T)	Flux(E)
0.0	0.1	0.4	0.7	1.1	1.7	2.2	2.4	2.4	2.5	2.8	2.8	2.4	1.7	1.3	1.0	0.5	0.2	26.4	0.0	0.0
0.1	1.0	2.2	3.5	4.9	6.6	8.7	11.5	12.8	12.7	11.5	10.0	8.4	6.4	4.2	2.9	1.7	0.4	109.6	0.0	0.0
0.3	2.0	5.3	7.3	10.1	12.5	14.9	18.9	21.1	21.2	19.6	17.4	15.9	14.2	9.9	6.0	2.5	0.6	199.8	0.0	0.0
0.5	3.7	17.6	23.4	29.5	31.5	34.2	38.1	40.7	43.4	45.2	44.7	44.5	45.4	34.5	19.2	4.1	0.7	500.9	129.9	0.0
0.7	8.5	48.1	67.4	69.1	74.4	81.1	90.3	96.9	101.4	103.7	103.3	105.4	109.6	95.9	53.3	8.8	0.8	1218.7	1195.4	0.0
0.9	19.5	90.6	121.1	118.9	128.9	139.3	148.7	155.4	158.8	160.4	165.8	177.2	184.2	174.5	103.1	18.8	1.0	2067.2	2056.5	0.0
1.1	35.7	138.3	170.9	178.5	182.5	190.1	194.2	200.6	207.6	216.3	233.1	250.0	263.0	245.9	152.3	32.8	1.2	2894.2	2886.3	0.0
1.3	53.1	183.4	223.5	234.6	241.4	244.9	249.3	255.7	265.4	280.7	304.1	322.6	327.9	295.8	191.6	47.1	1.4	3723.8	3717.5	0.0
1.5	67.9	224.9	275.3	289.4	297.5	300.7	305.7	312.7	320.2	337.4	361.4	376.5	370.6	333.2	223.0	58.6	1.5	4458.0	4451.9	0.0
1.5	71.4	240.2	302.4	323.3	333.4	332.8	336.6	347.5	362.8	379.3	396.6	405.0	393.2	347.7	229.5	59.8	1.5	4864.5	4859.1	0.0
1.5	62.9	228.5	306.2	334.6	343.1	343.2	348.6	361.4	373.2	387.0	399.8	404.9	394.1	338.6	210.5	50.4	1.4	4889.9	4883.4	0.0
1.4	49.7	208.9	292.0	309.9	322.7	324.8	328.5	337.6	346.2	356.4	366.8	370.0	358.6	309.9	180.7	37.4	1.2	4502.6	4495.5	0.0
1.2	34.3	168.4	229.4	246.4	255.1	260.3	261.0	265.4	270.9	277.9	287.8	293.0	290.9	241.4	133.3	23.6	1.0	3541.3	3532.5	0.0
1.0	19.9	106.8	140.6	147.6	146.0	154.2	156.2	160.1	162.6	164.9	171.8	176.1	183.7	149.1	75.6	12.3	0.9	2129.2	2117.1	0.0
0.8	9.5	48.3	58.8	60.1	52.0	56.6	59.3	62.9	63.8	62.5	63.4	64.5	73.8	59.4	30.2	5.7	0.8	832.4	610.1	0.0
0.5	4.7	14.0	17.2	18.4	17.6	19.8	21.8	23.9	24.0	22.2	20.5	18.6	18.9	15.7	9.2	3.2	0.7	270.9	1.6	0.0
0.3	3.0	4.9	5.8	8.0	9.6	11.4	13.6	16.2	16.5	14.3	12.3	10.4	8.4	6.0	3.9	2.1	0.6	147.2	0.0	0.0
0.2	1.4	2.1	2.4	3.0	3.6	4.4	5.3	6.2	6.3	5.6	5.1	4.4	3.5	2.6	2.0	1.4	0.4	60.0	0.0	0.0
14.8	448.3	1733.0	2247.8	2387.3	2460.0	2523.5	2589.2	2679.2	2759.0	2847.0	2966.6	3049.9	3048.2	2665.1	1627.4	371.0	16.3	36437		
0.0	395.9	1689.2	2188.2	2306.5	2356.0	2401.4	2453.8	2536.7	2618.0	2716.5	2849.2	2948.8	2972.2	2607.3	1579.4	316.7	0.0		34937	

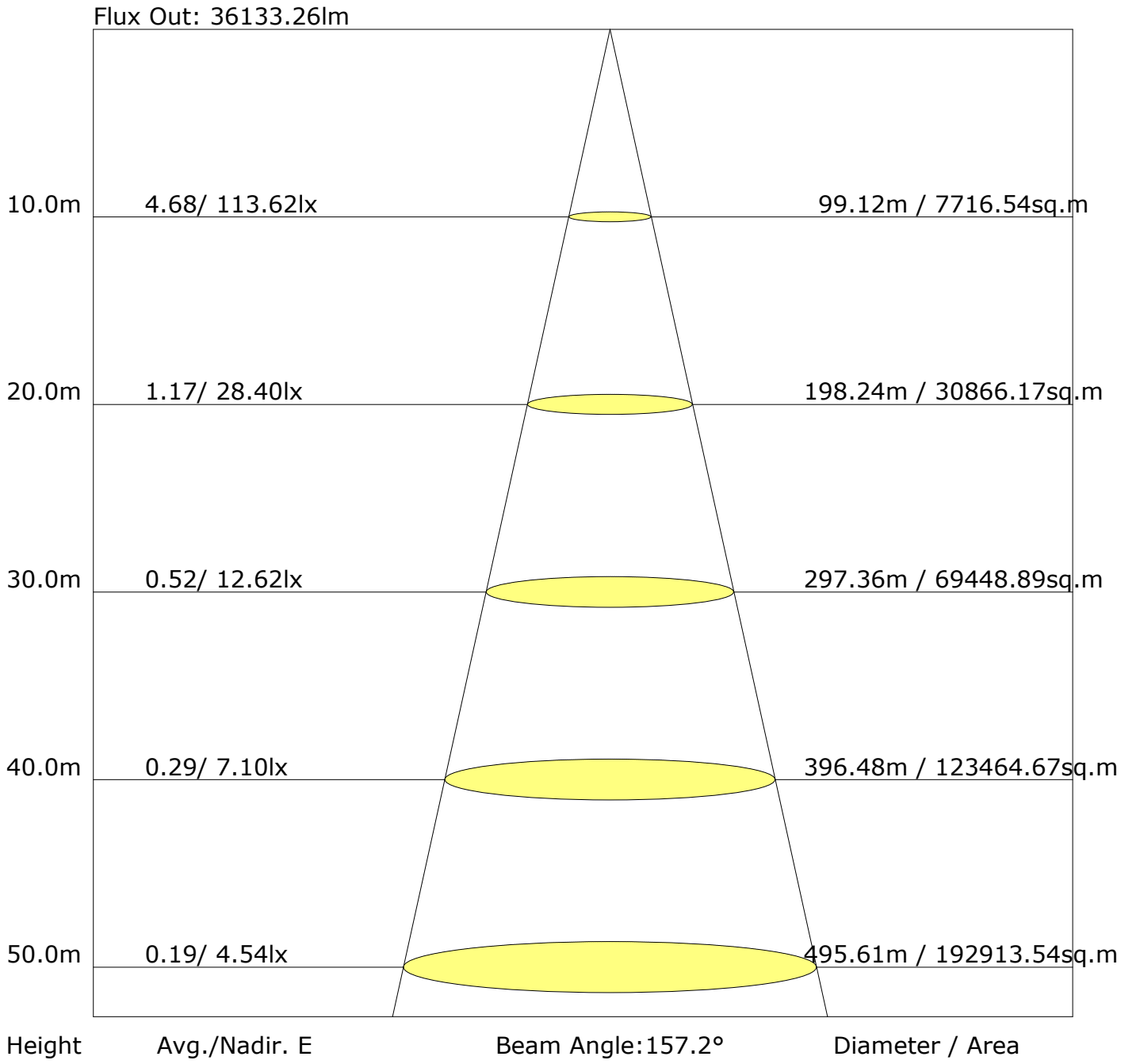
Horizontal plane

-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

UGR Table

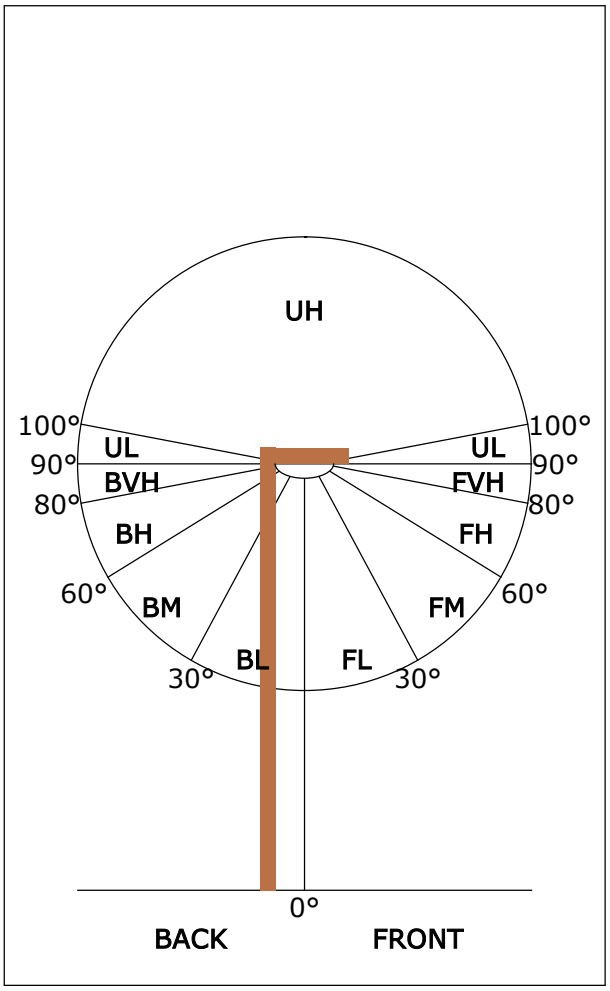
Reflectance: Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-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 36439lm (8log(F/F0) = 12.5).

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



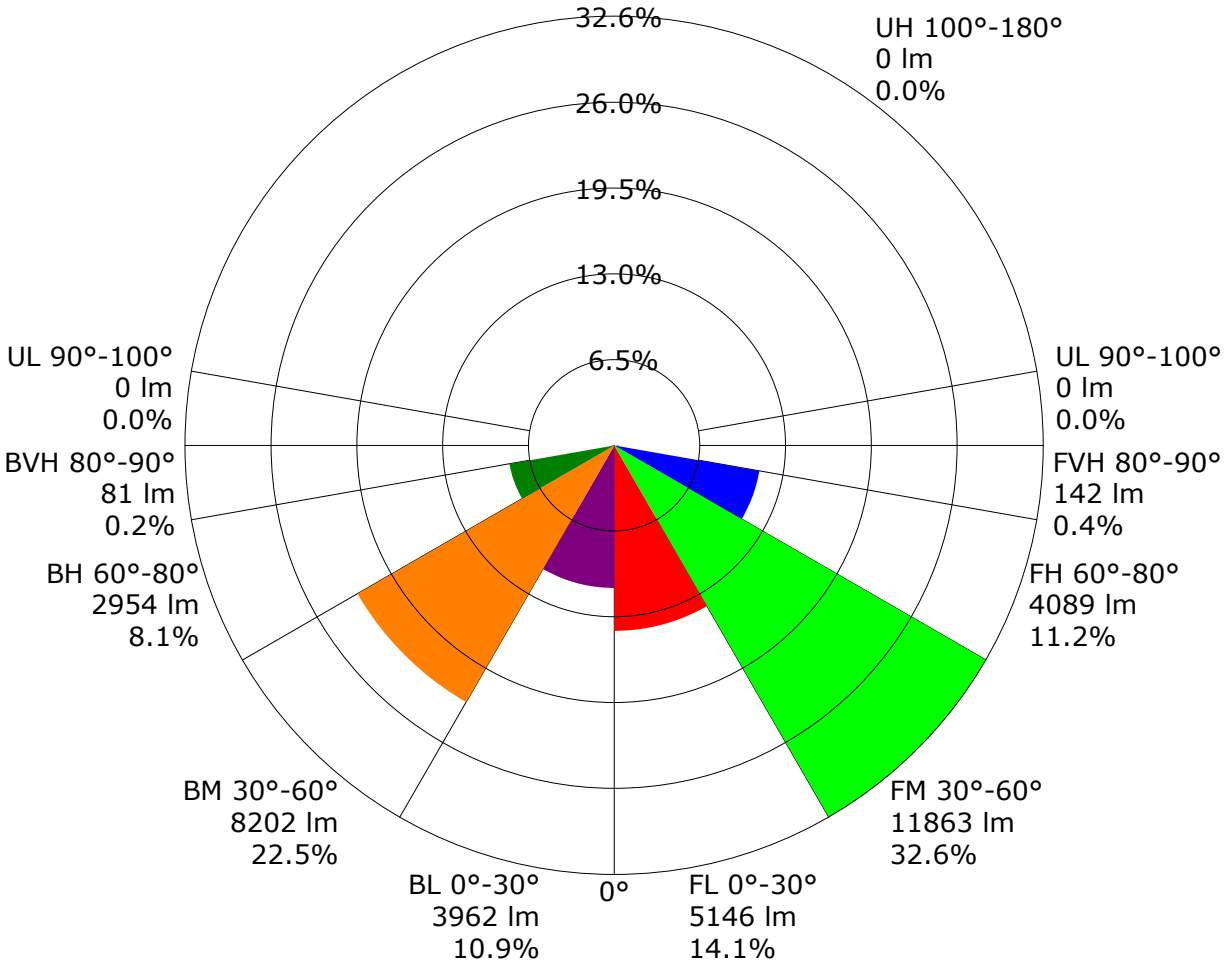
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	21240	58.3
FL (0°-30°)	5146	14.1
FM (30°-60°)	11863	32.6
FH (60°-80°)	4089	11.2
FVH (80°-90°)	142	0.4
BACK LIGHT	15199	41.7
BL (0°-30°)	3962	10.9
BM (30°-60°)	8202	22.5
BH (60°-80°)	2954	8.1
BVH (80°-90°)	81	0.2
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	NA	NA

BUG(**B**acklight,**U**plight,**G**lare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B4 U2 G4
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U2 G2

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector:

LCS Graph



Scale= MAX LCS%

Trapped Light:NA,NA

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 23.5 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
Distance: 16.601 m [K=1.0000]
Humidity:
Inspector: