Report No.:

Test Time: 2025/11/7 星期五 09:07

Luminaire Property

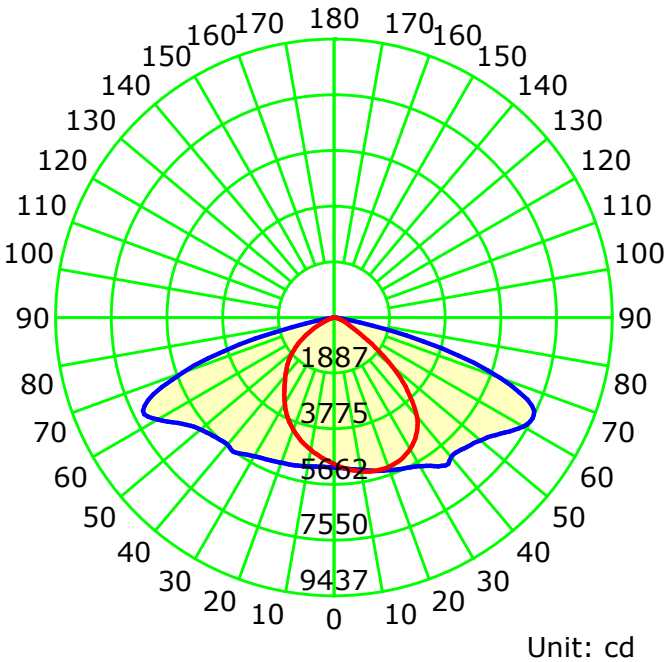
Luminaire Manufacturer:
Luminaire Category:
Luminaire Description: PSL007-100W
Lamp Catalog:
Lamp Description:
Number of Lamps:
Lumens per Lamp:
Luminous Length (mm):
Luminous Width (mm):
Luminous Height (mm):
Voltage: 220.05 V
Current: 0.4560 A
Power: 100.03 W
Power Factor: 0.9967

Photometric Results

IES Classification: Type II
Longitudinal Classification: Short
Total Rated Lamp Lumens: 17116.8 lm
Measurement Flux: 17116.8 lm
Efficiency: 100%
Downward Ratio: 100%
Upward Ratio: 0%
Luminous Efficacy (lm/w): 171.12
C0r0 Intensity: 5082.35 cd
Max. Intensity: 7550.35 cd
Pos of Max. Intensity: H0 V63
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 147.3, 87.6, 107.1, 111.2

Picture Of Luminaire

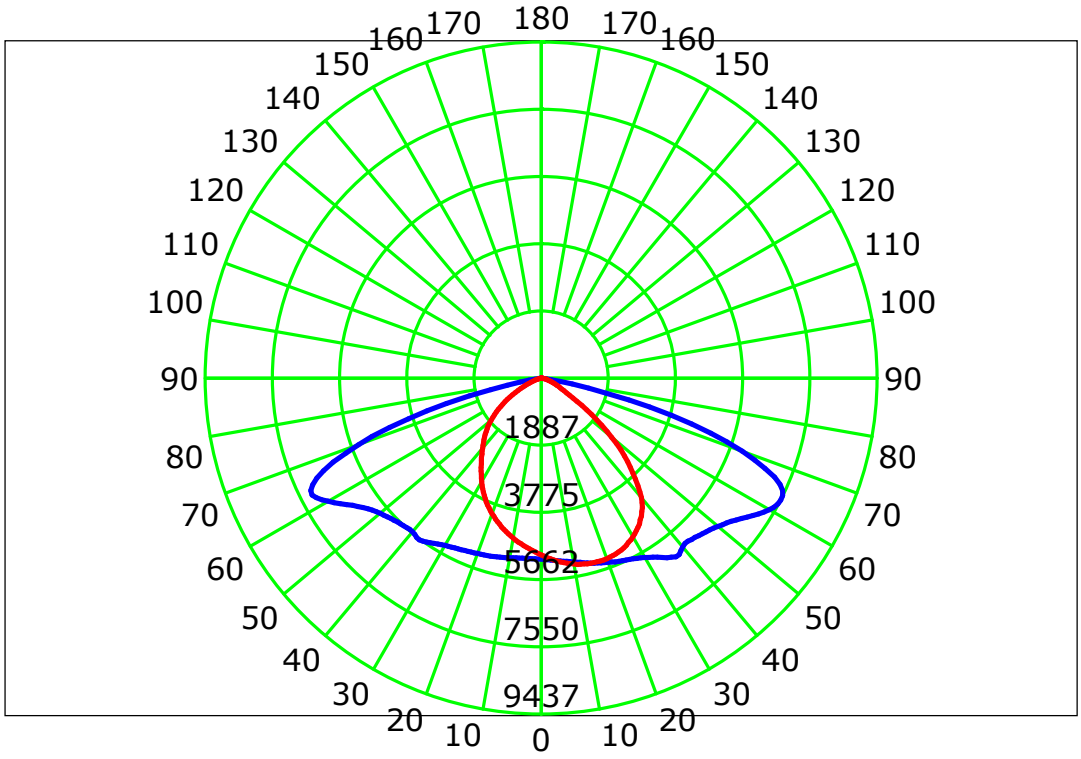
Luminous Intensity Distribution Curve

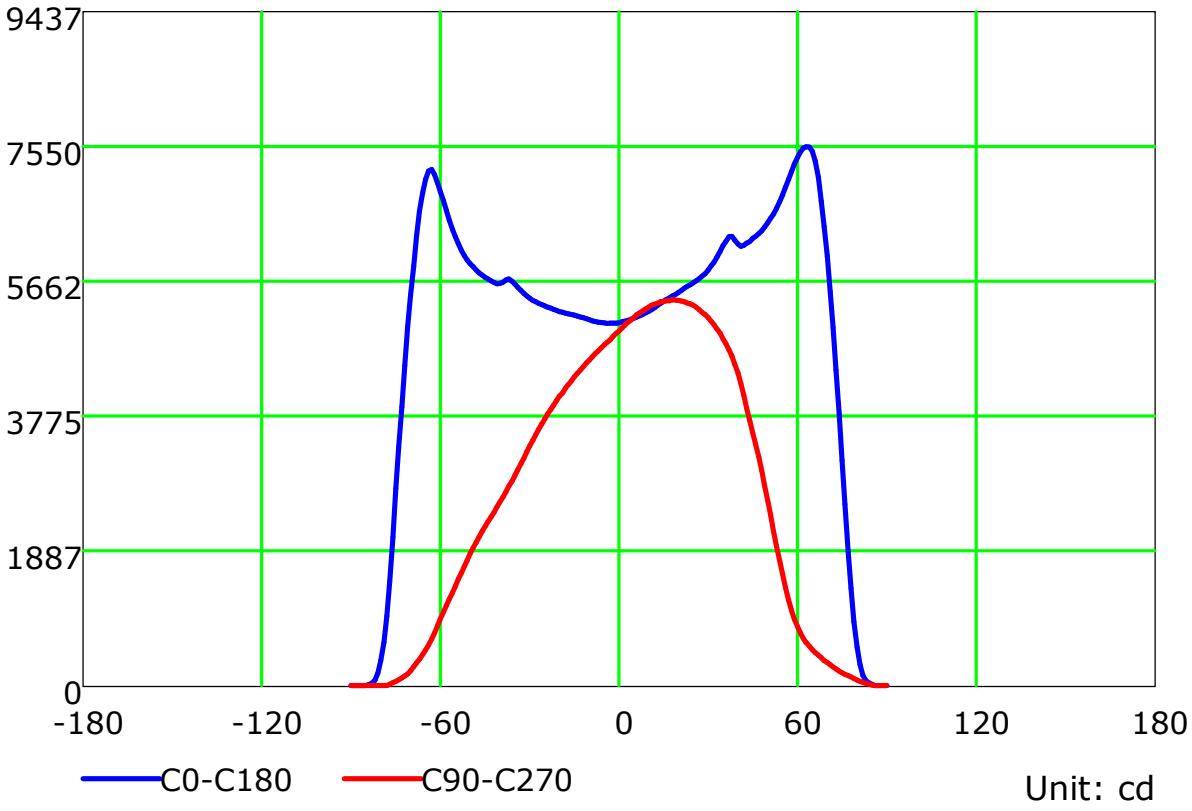


Unit: cd
Average Diffuse Angle(50%): 117.5°
C0-C180 C90-C270

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: 20.9 'C
Humidity:
Operator:
Inspector:

Luminous Intensity Distribution Curve

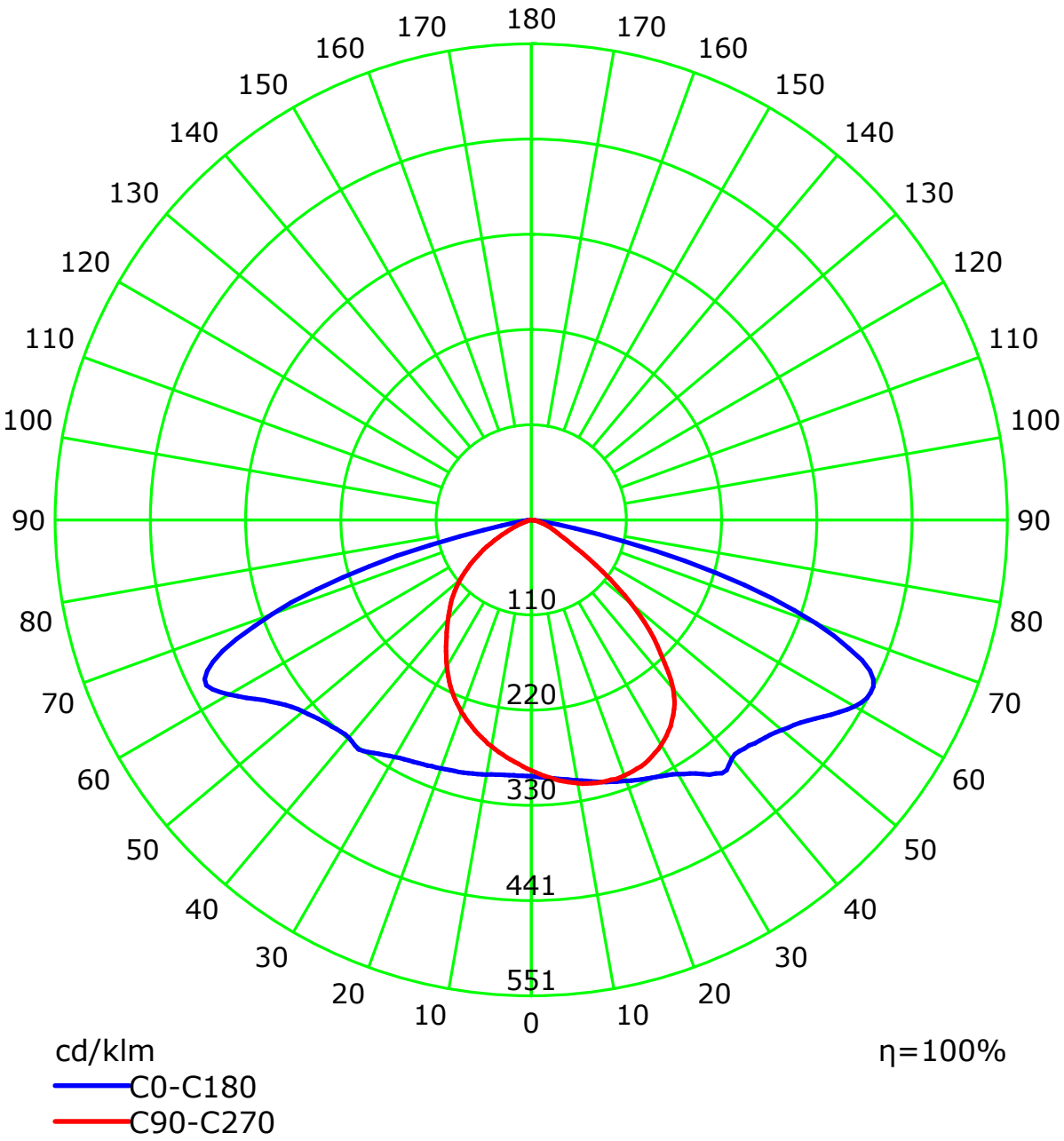




C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 'C
Operator:

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

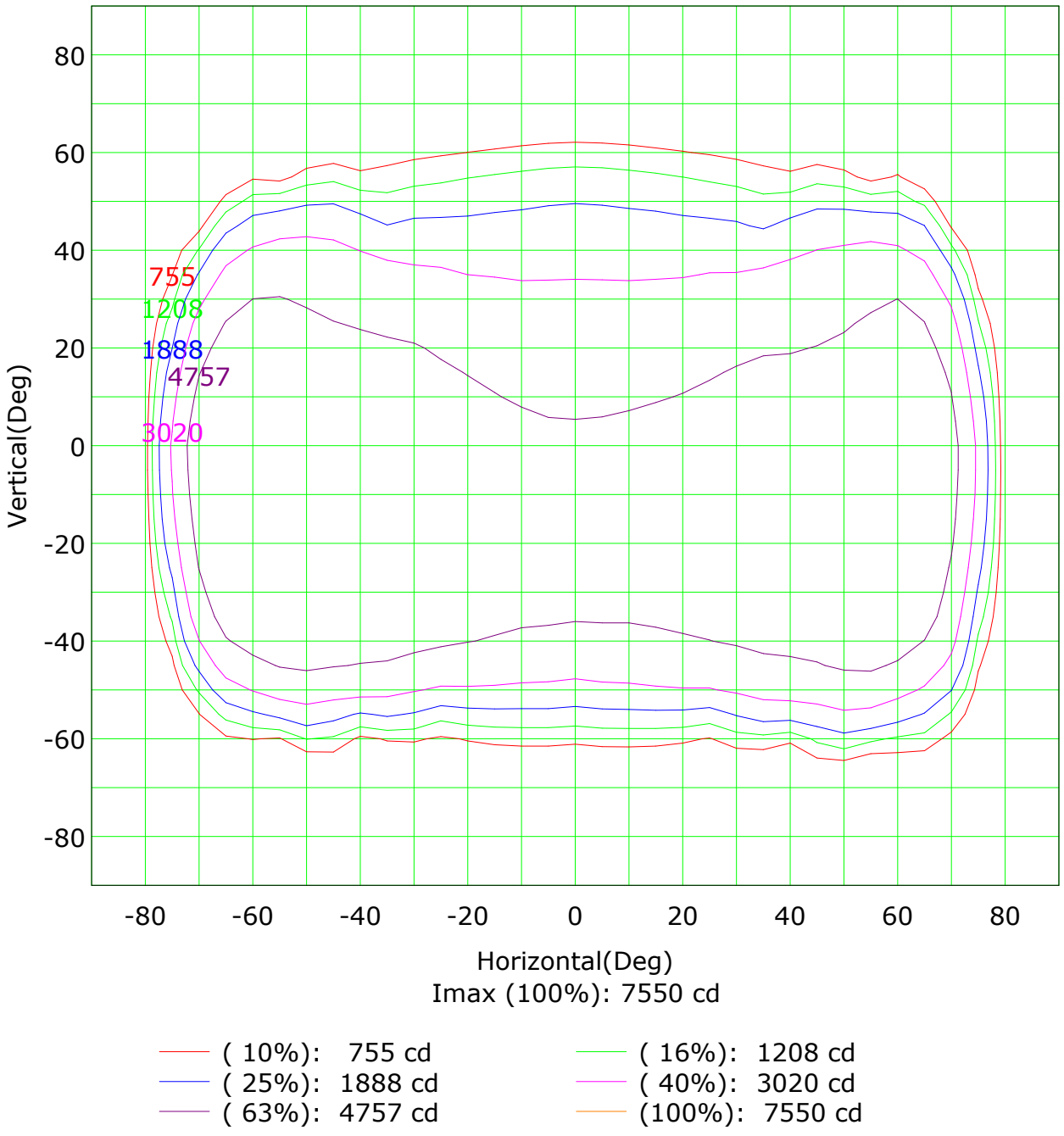
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 'C
Operator:

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

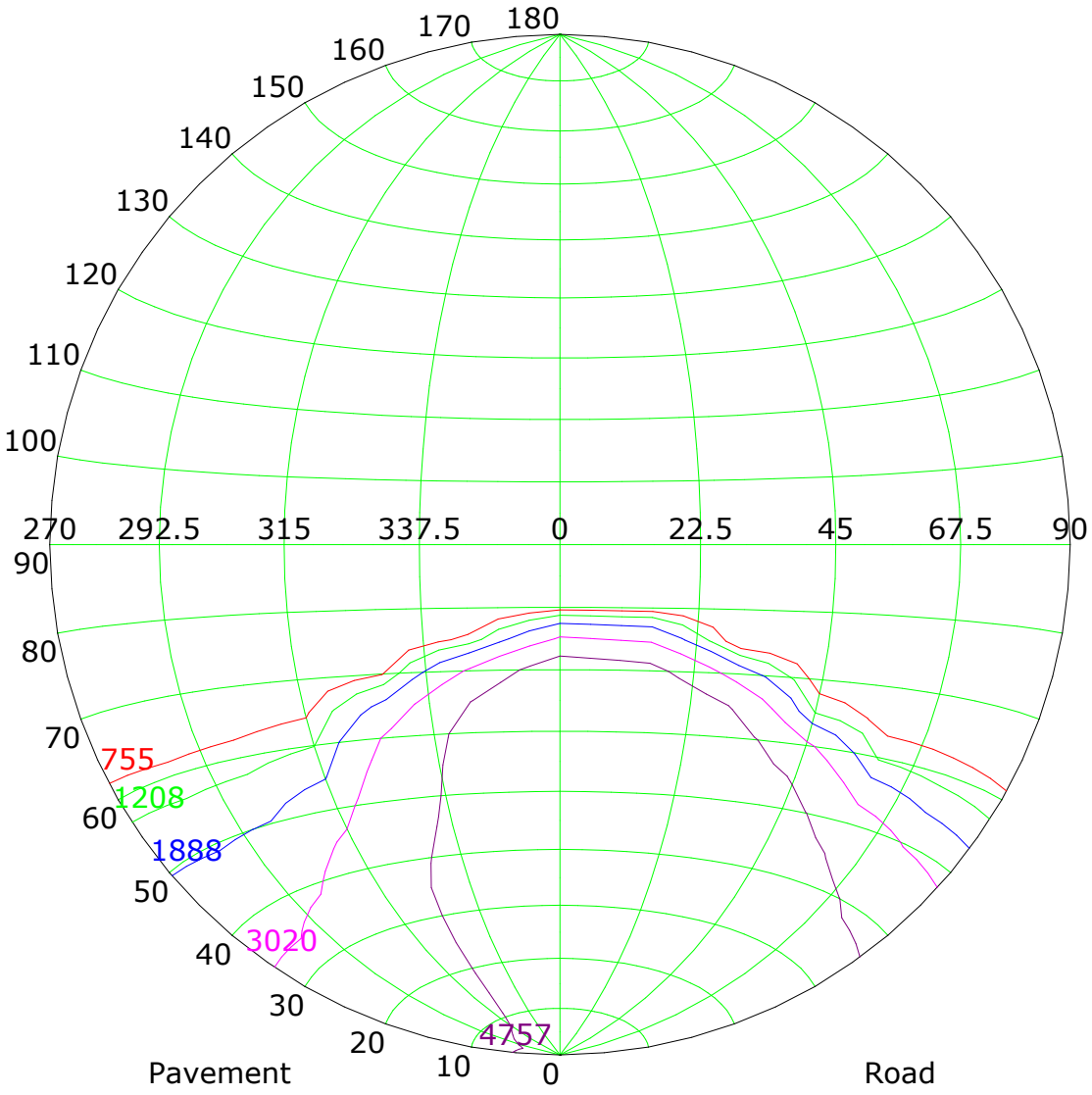
Isocandela (rectangle)



(10%): 755 cd
(16%): 1208 cd
(25%): 1888 cd
(40%): 3020 cd
(63%): 4757 cd
(100%): 7550 cd

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: 20.9 'C
Humidity:
Operator:
Inspector:

Isocandela (sphere)



Imax (100%): 7550 cd

(10%): 755 cd
(16%): 1208 cd
(25%): 1888 cd
(40%): 3020 cd
(63%): 4757 cd
(100%): 7550 cd

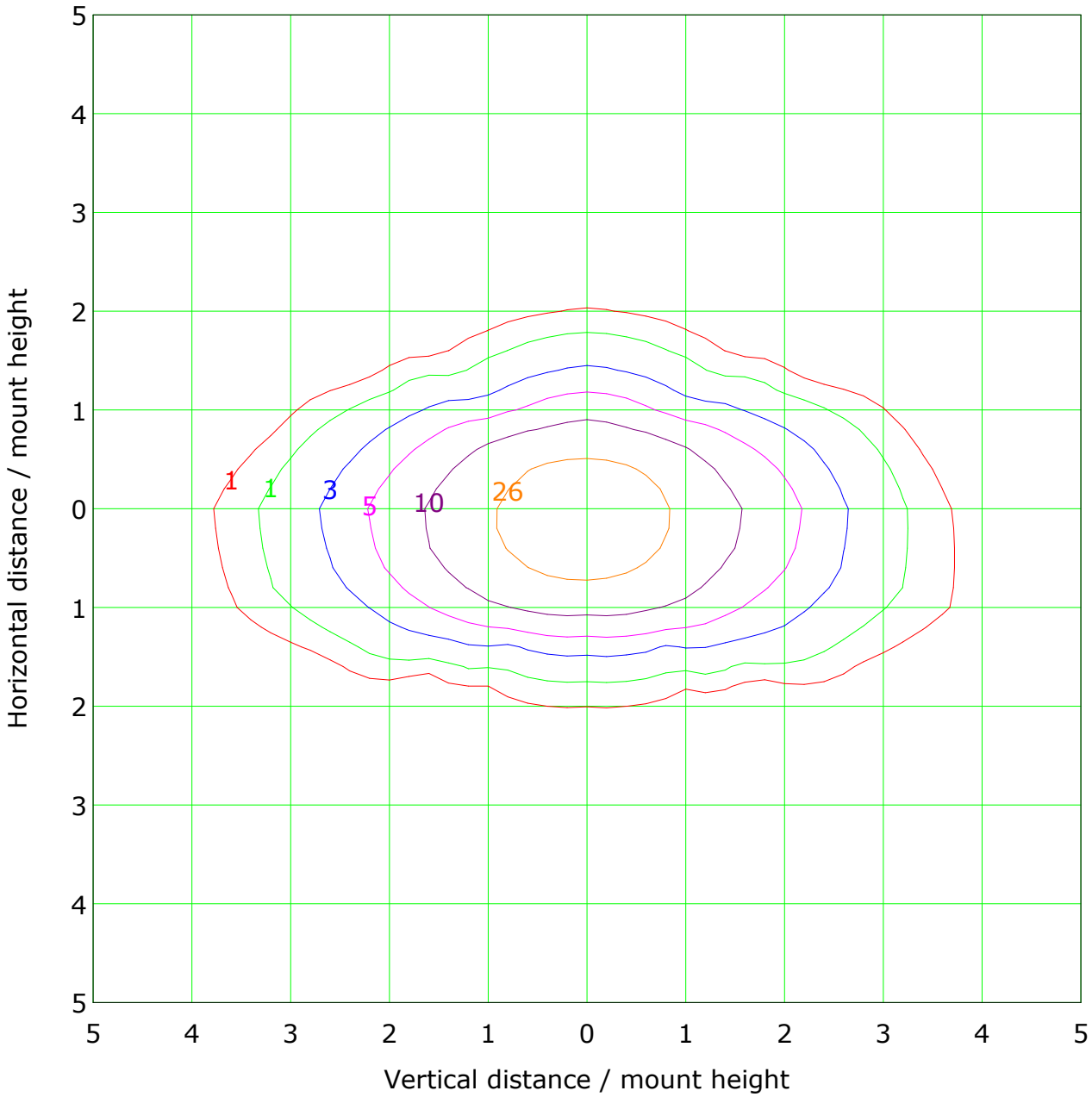
CIE: narrow - intermediate
CIE: Semi-cut-off luminaire
Max.At90: 0.000 cd/klm

IES: Cut-off
Max.At80: 43.578 cd/klm
Max.80-90: 43.578 cd/klm

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 '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

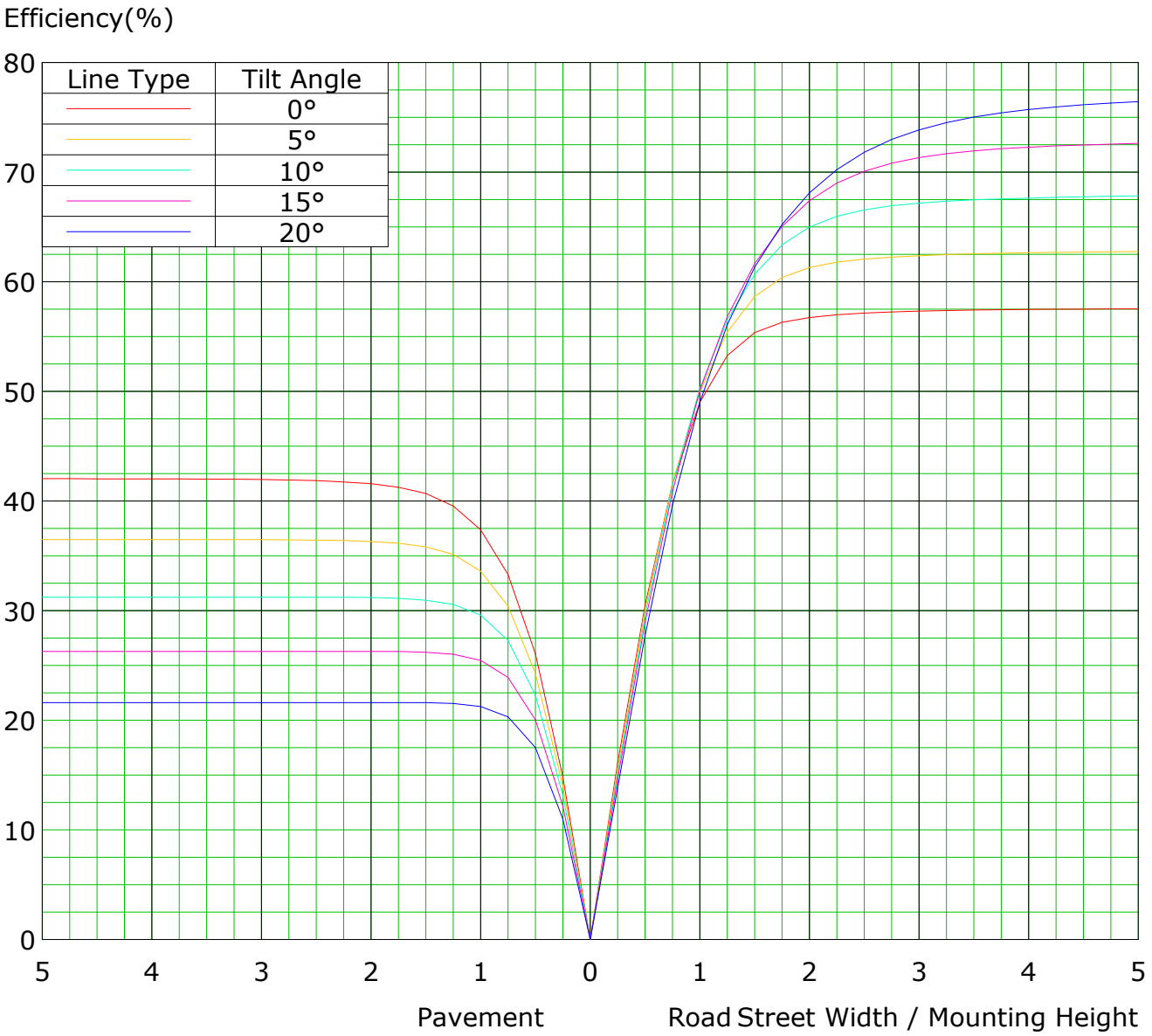


Mounting Height: 10.0m Max Lux(100%): 51.3 lx

(1%): 0.5 lx
(2%): 1.0 lx
(5%): 2.6 lx
(10%): 5.1 lx
(20%): 10.3 lx
(50%): 25.7 lx
(100%): 51.3 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: 20.9 'C
Humidity:
Operator:
Inspector:

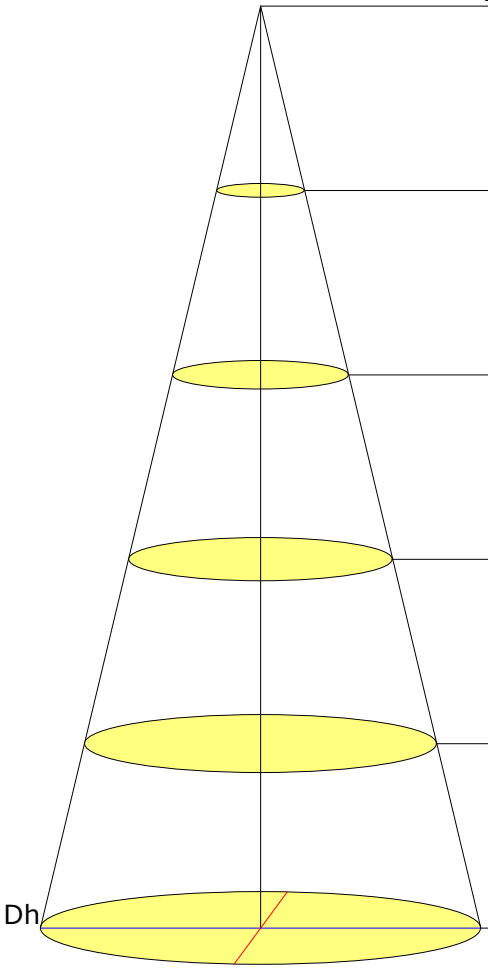
Roadway CU Curve



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 '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



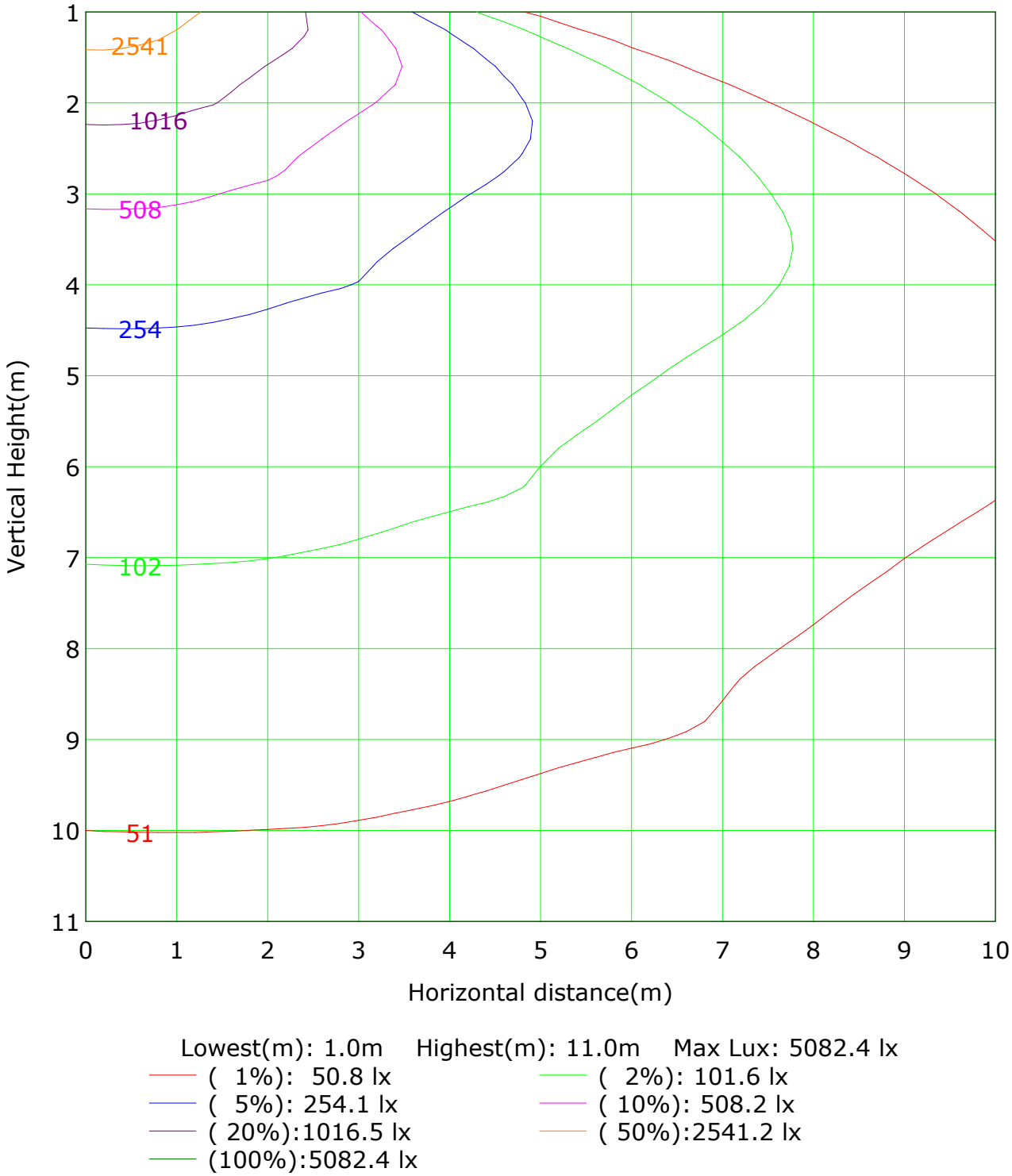
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	50.82	68.14/19.19	1443.9	5.23
20.0	12.71	136.27/38.38	5775.6	1.31
30.0	5.65	204.41/57.57	12995.1	0.58
40.0	3.18	272.55/76.76	23102.4	0.33
50.0	2.03	340.68/95.95	36097.6	0.21

Beam Angle(B): H147.3 V87.6 Field Angle(F): H158.0 V128.6

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 '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: 5082.4 lx

(1%): 50.8 lx
(2%): 101.6 lx
(5%): 254.1 lx
(10%): 508.2 lx
(20%):1016.5 lx
(50%):2541.2 lx
(100%):5082.4 lx

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 'C
Operator:

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

Area Flux Table

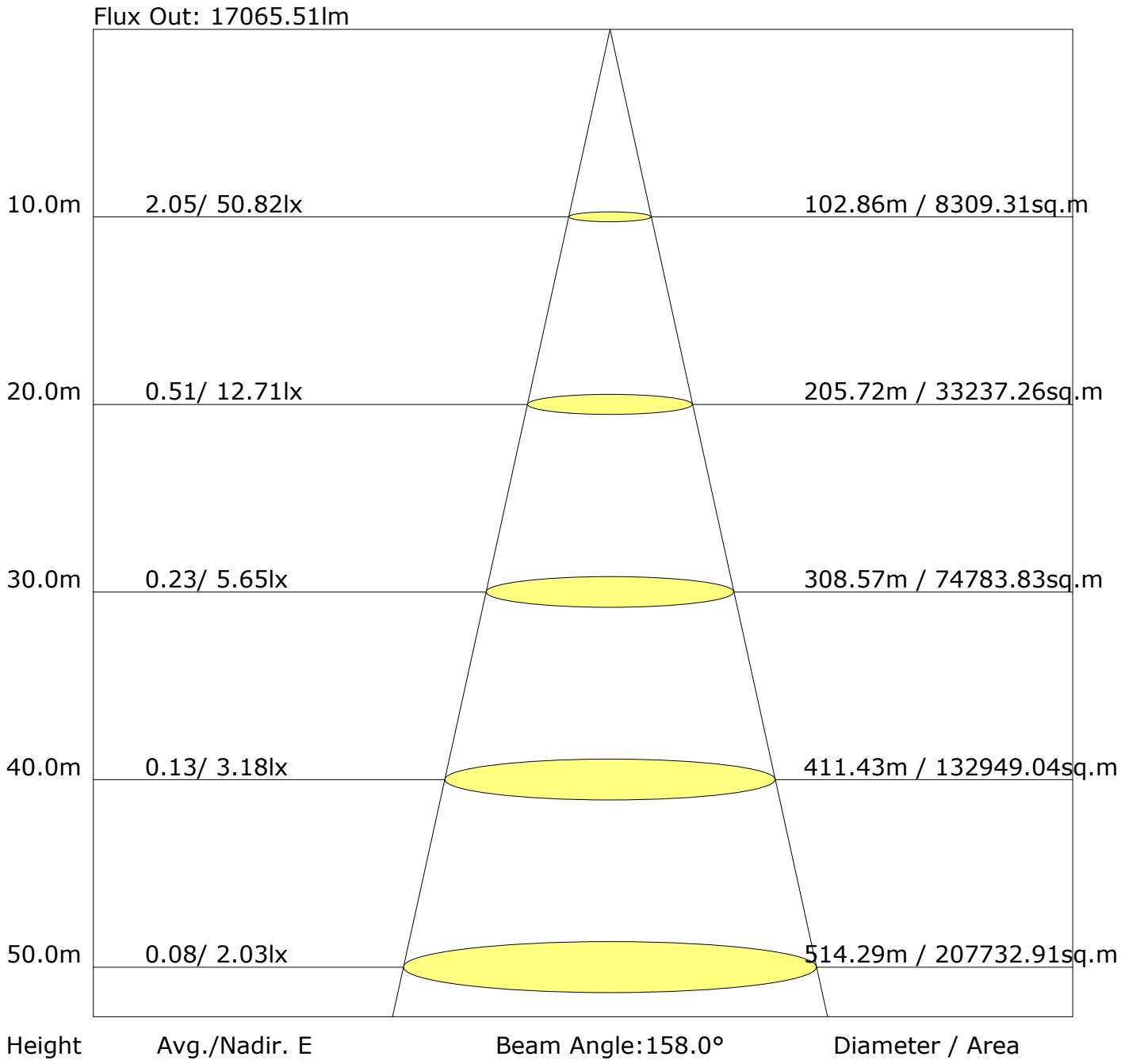
Unit: lm

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)
Horizontal plane	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	1.7	0.0
-90	0.0	0.0	0.0	0.1	0.6	2.4	7.0	12.9	18.4	22.5	24.0	22.6	19.4	14.8	9.3	4.3	1.6	0.4	0.0	160.3	146.8
-80	0.0	0.0	0.1	1.1	6.8	23.0	43.3	60.3	73.0	83.1	86.7	84.0	79.1	68.9	49.2	23.8	6.6	1.4	0.1	690.5	679.2
-70	0.0	0.0	0.1	2.8	13.9	41.8	68.9	85.8	96.4	105.4	110.3	111.6	111.3	103.8	84.8	46.2	10.1	1.9	0.2	995.9	981.3
-60	0.0	0.0	0.4	5.2	21.4	49.8	77.2	95.9	108.9	118.6	124.4	126.4	125.1	118.9	99.8	53.9	13.3	3.0	0.3	1142.9	1123.0
-50	0.0	0.0	0.8	8.0	23.3	48.1	79.8	106.3	122.7	134.2	140.4	142.9	141.4	132.3	109.2	55.0	12.4	3.8	0.4	1261.7	1234.2
-40	0.0	0.0	1.5	11.3	31.1	55.8	84.0	111.6	129.0	141.0	147.5	152.2	151.5	140.8	110.7	48.1	13.4	4.7	0.5	1335.2	1302.9
-30	0.0	0.0	2.1	13.7	37.5	62.1	86.3	113.0	131.1	145.2	152.6	158.6	157.4	144.5	111.5	51.3	15.9	5.7	0.6	1389.3	1355.4
-20	0.0	0.0	2.2	15.6	41.6	66.6	88.9	112.9	131.1	145.7	155.0	161.7	160.7	146.8	109.8	51.2	16.5	5.9	0.7	1412.9	1379.0
-10	0.0	0.0	2.2	15.5	41.3	66.3	88.7	113.3	131.8	145.8	159.0	164.9	162.9	148.4	110.1	50.7	16.4	5.9	0.7	1423.9	1389.7
0	0.0	0.0	2.2	13.6	36.8	61.8	87.3	115.4	134.4	148.5	161.7	166.2	163.7	149.3	112.6	49.6	15.6	5.7	0.6	1425.0	1390.7
10	0.0	0.0	2.3	11.3	30.7	56.8	87.4	116.8	135.0	148.2	159.6	164.5	161.6	148.5	112.2	45.0	12.7	4.5	0.5	1397.6	1364.3
20	0.0	0.0	1.8	8.2	23.4	50.9	85.5	112.8	130.4	144.9	154.8	158.3	154.3	141.8	111.9	49.1	10.7	3.5	0.3	1342.6	1313.7
30	0.0	0.0	1.1	5.4	22.3	54.3	83.9	103.2	117.2	129.0	137.3	141.3	138.6	129.2	102.4	47.8	10.3	2.5	0.2	1226.1	1206.0
40	0.0	0.0	0.6	3.1	13.9	43.2	72.3	91.1	103.7	114.5	120.9	123.3	122.2	109.7	82.9	37.8	6.1	1.4	0.1	1046.9	1032.1
50	0.0	0.0	0.2	1.3	6.0	20.8	41.8	61.0	75.9	87.7	91.9	88.3	81.7	68.7	45.3	18.2	4.4	0.8	0.0	693.9	681.6
60	0.0	0.0	0.0	0.2	0.7	2.7	7.5	14.0	20.4	25.6	26.9	24.3	19.8	13.6	7.2	2.9	0.9	0.2	0.0	167.1	153.6
70	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	2.3	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Flux(T)	Flux(E)
Flux(T)	1.7	160.3	690.5	995.9	1142.9	1261.7	1335.2	1389.3	1412.9	1423.9	1425.0	1397.6	1342.6	1226.1	1046.9	693.9	167.1	2.3	17116	16733	
Flux(E)	0.0	146.8	679.2	981.3	1123.0	1234.2	1302.9	1355.4	1379.0	1389.7	1390.7	1364.3	1313.7	1206.0	1032.1	681.6	153.6	0.0			

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 '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: 20.9 '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

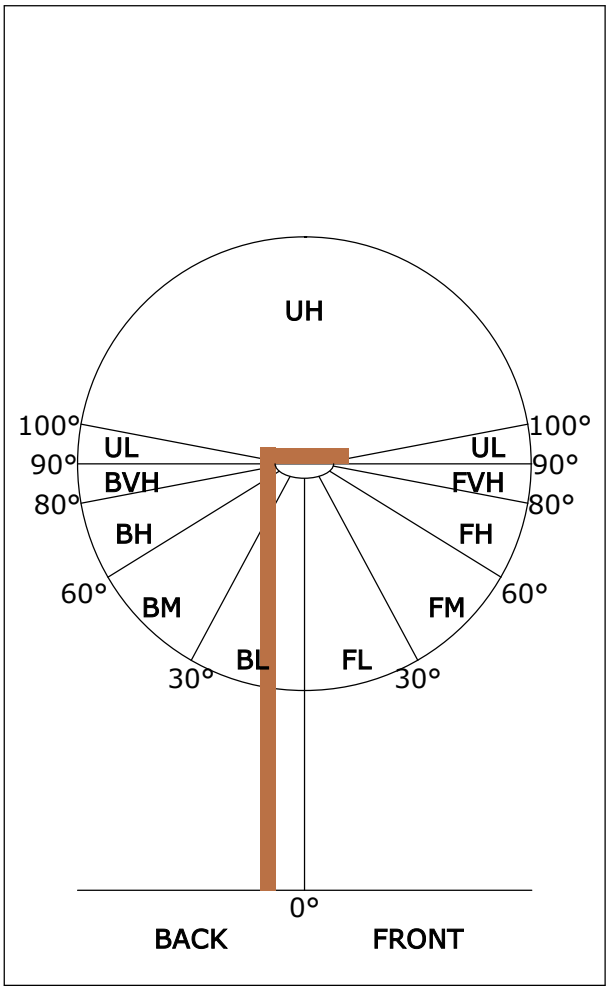
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-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 17117lm (8log(F/F0) = 9.9).

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 '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



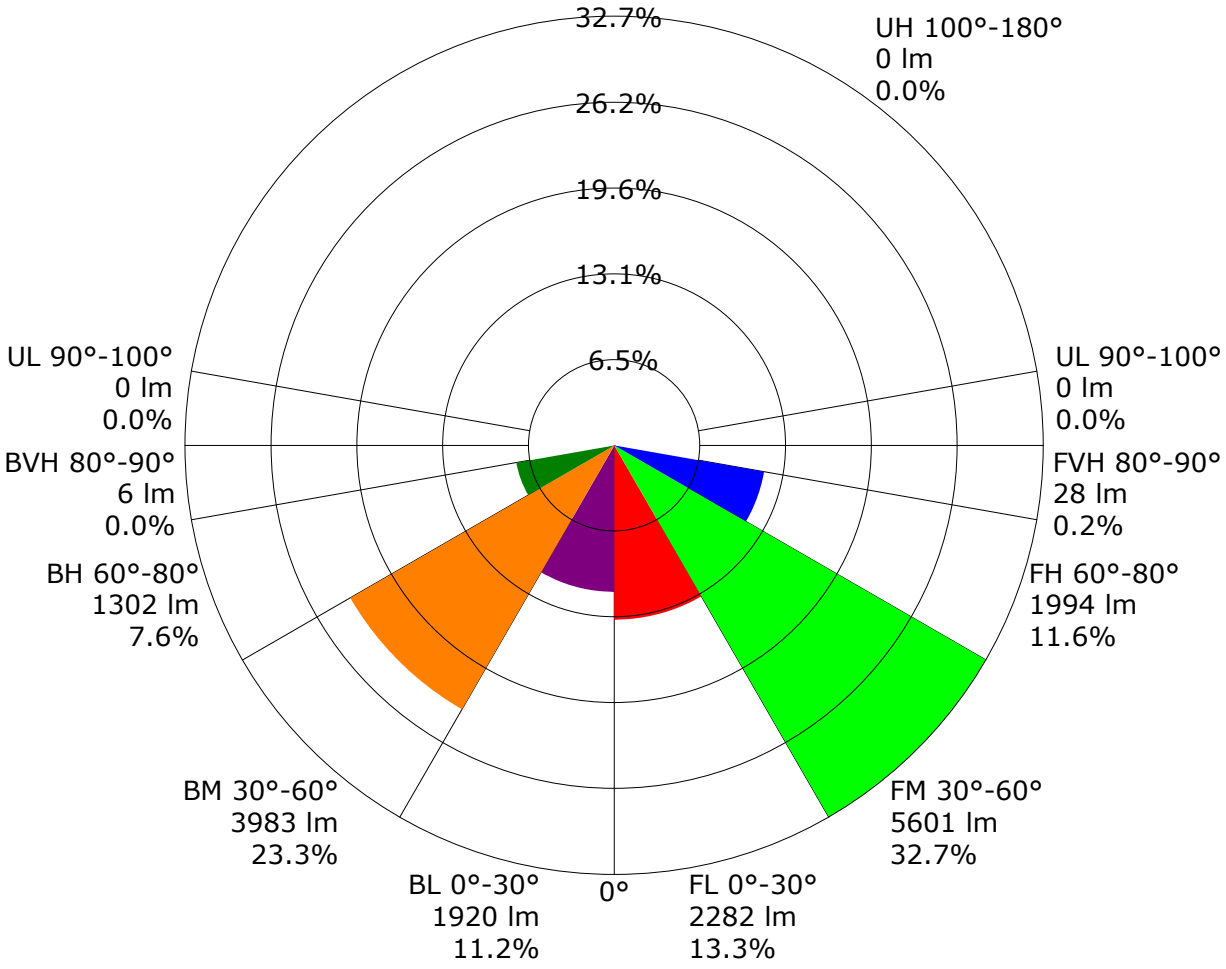
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	9906	57.9
FL (0°-30°)	2282	13.3
FM (30°-60°)	5601	32.7
FH (60°-80°)	1994	11.6
FVH (80°-90°)	28	0.2
BACK LIGHT	7211	42.1
BL (0°-30°)	1920	11.2
BM (30°-60°)	3983	23.3
BH (60°-80°)	1302	7.6
BVH (80°-90°)	6	0.0
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
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)	B3 U1 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U1 G2

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 20.9 '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: 20.9 'C
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-3000
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Humidity:
Inspector: