Report No.: Test Time: 2025/12/20 星期六 15:58

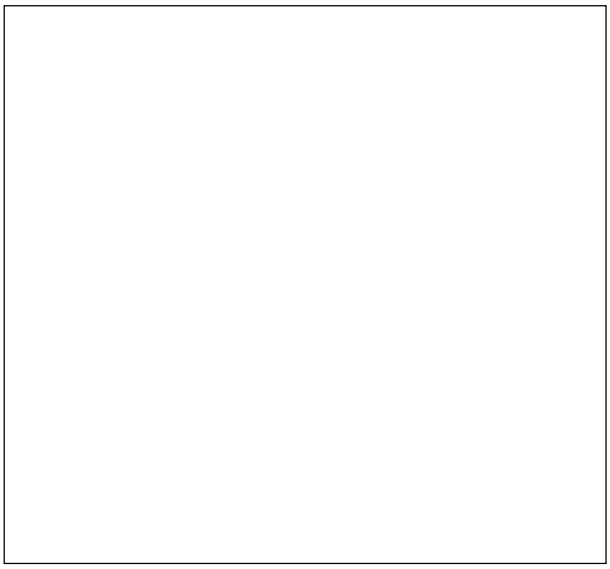
Luminaire Property

Luminaire Manufacturer:
Luminaire Category: Luminaire Description: PSL007-150W
Lamp Catalog: Lamp Description:
Number of Lamps: Lumens per Lamp:
Luminous Length (mm): Luminous Width (mm):
Luminous Height (mm): Voltage: 220.35 V
Current: 0.7210 A Power: 157.08 W
Power Factor: 0.9887

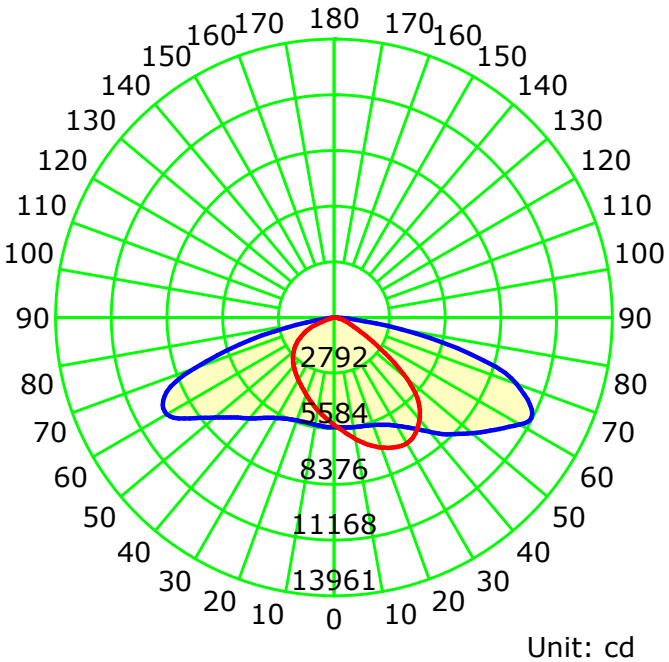
Photometric Results

IES Classification: Type III Longitudinal Classification: Short
Total Rated Lamp Lumens: 24545.1 lm Measurement Flux: 24545.1 lm
Efficiency: 100% Downward Ratio: 100%
Upward Ratio: 0% Luminous Efficacy (lm/w): 156.26
C0r0 Intensity: 5502.67 cd Max. Intensity: 11168.91 cd
Pos of Max. Intensity: H15 V59
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.2, 82.5, 91.1, 101.1

Picture Of Luminaire



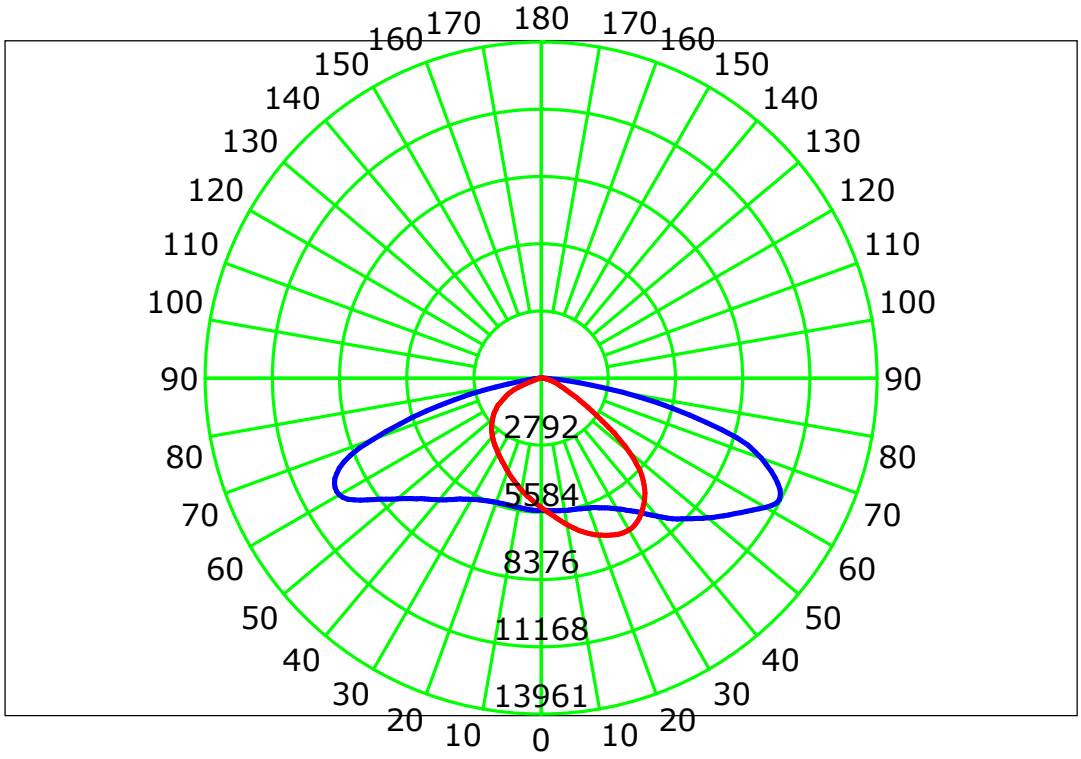
Luminous Intensity Distribution Curve

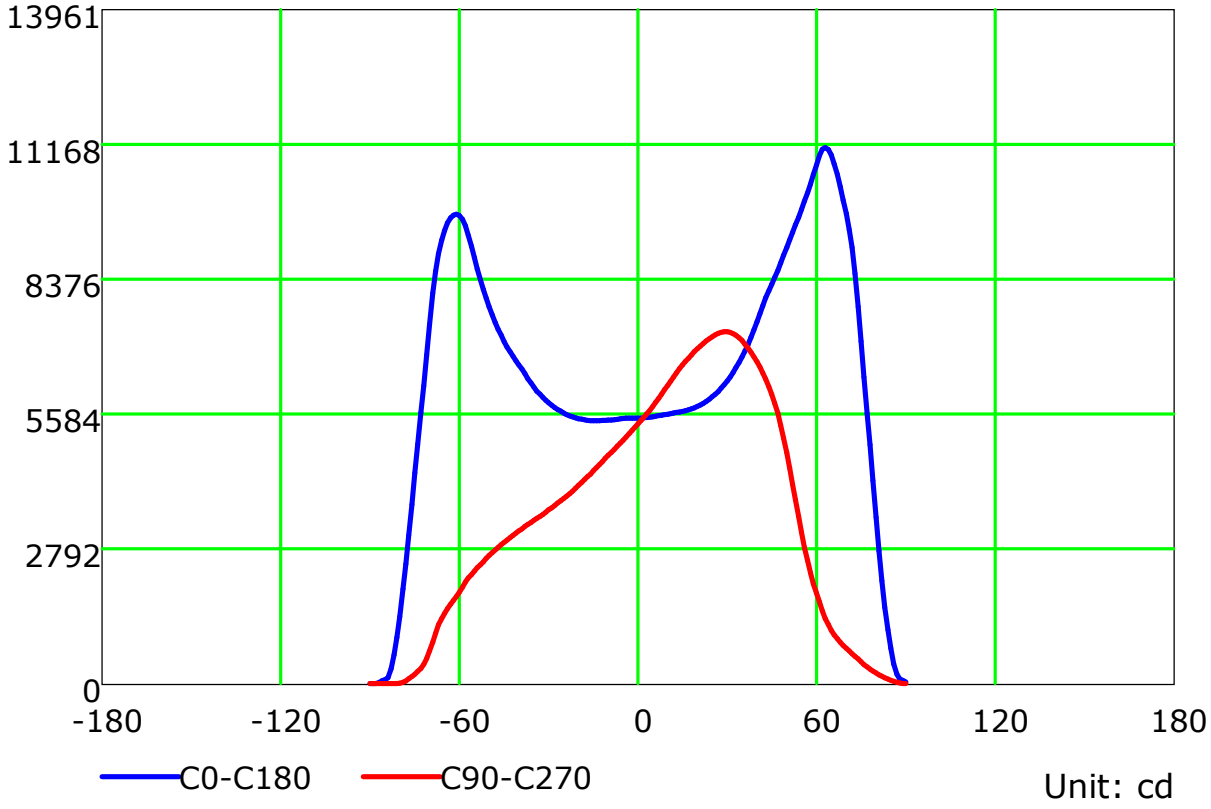


Unit: cd
Average Diffuse Angle(50%): 116.3°
C0-C180 C90-C270

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: 18.8 'C Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

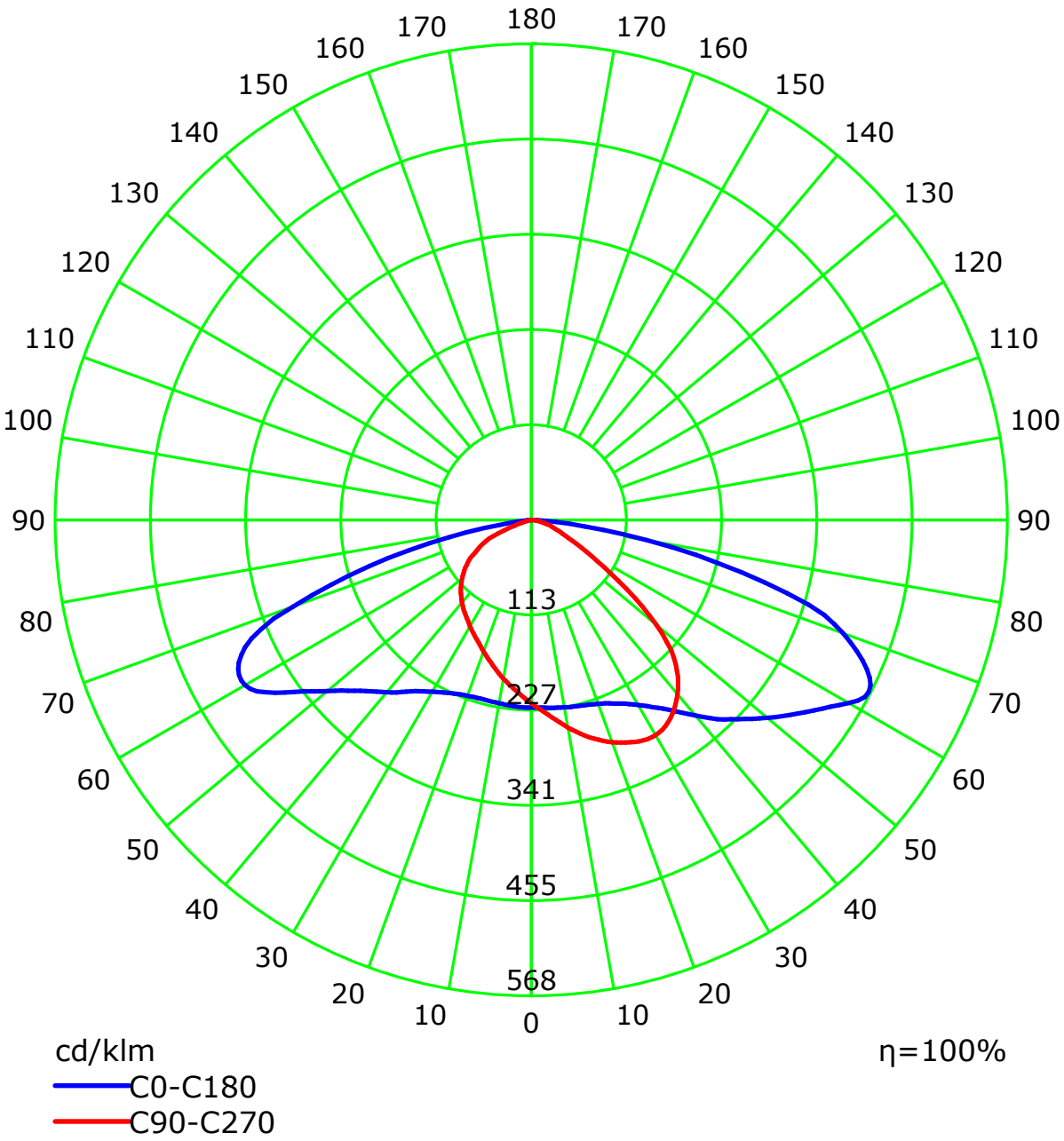




C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 'C
Operator:

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

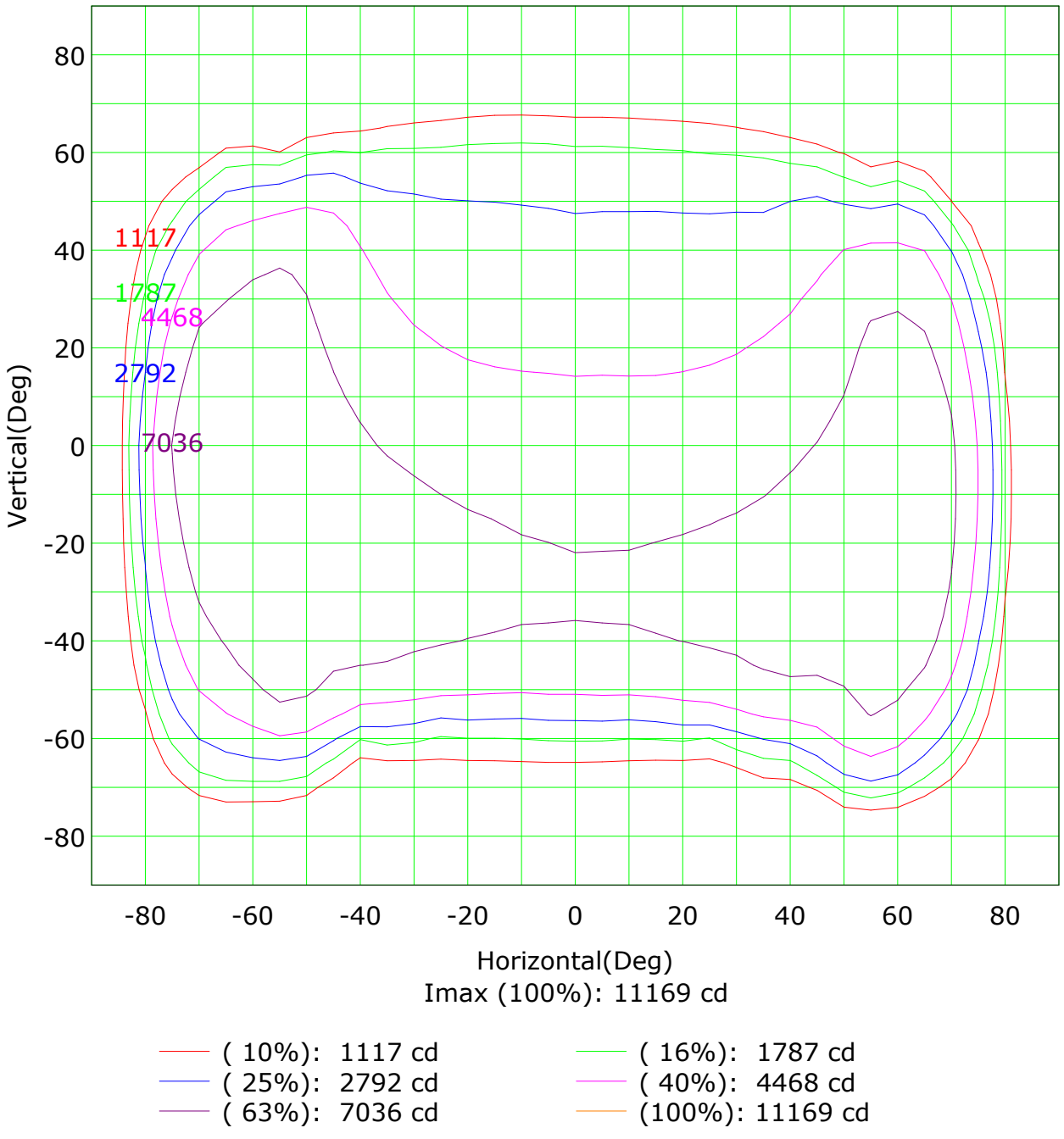
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 'C
Operator:

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

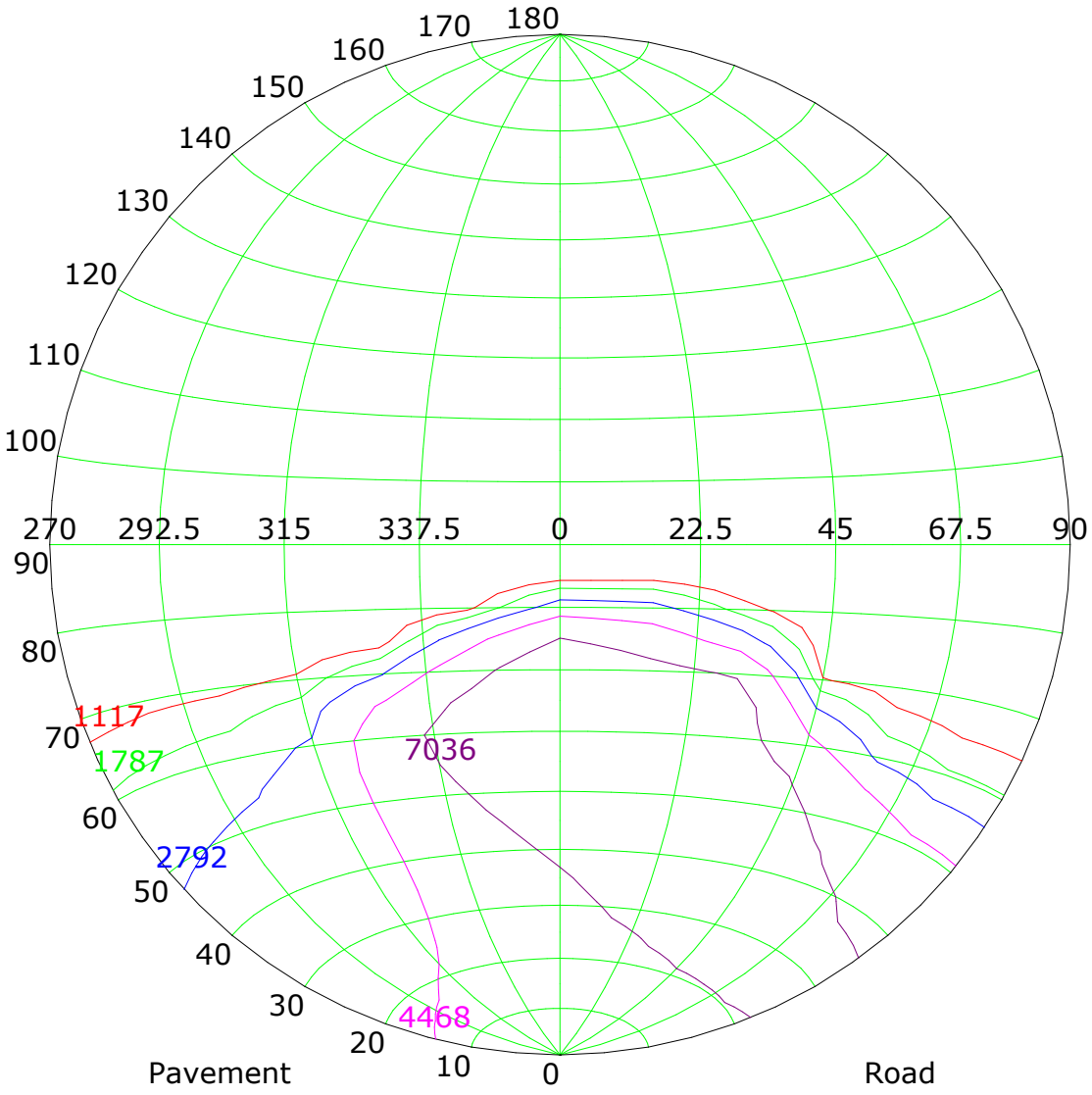
Isocandela (rectangle)



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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%): 11169 cd

(10%): 1117 cd
(16%): 1787 cd
(25%): 2792 cd
(40%): 4468 cd
(63%): 7036 cd
(100%): 11169 cd

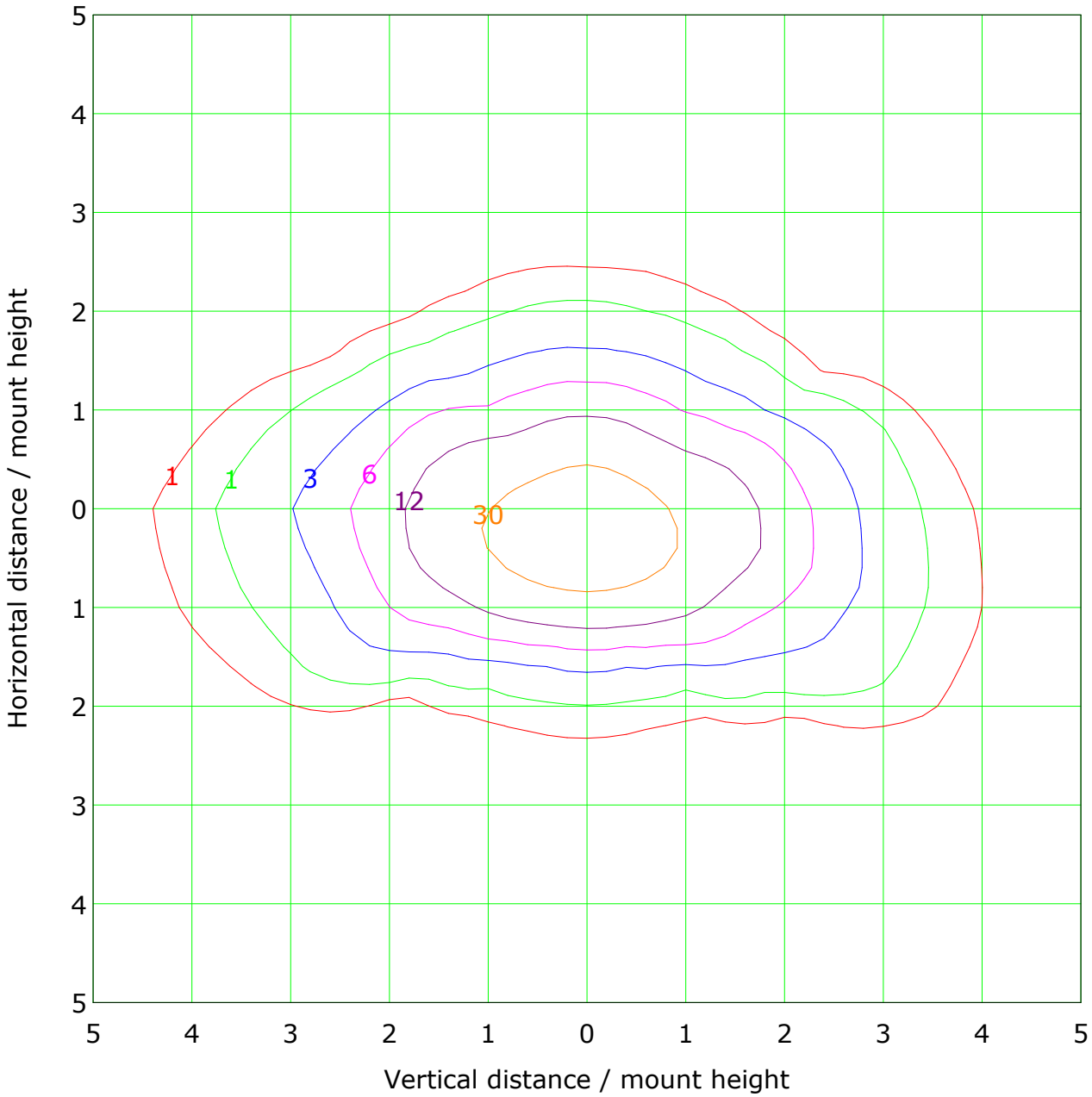
CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 1.923 cd/klm

IES: Semi-cut-off
Max.At80: 140.288 cd/klm
Max.80-90: 140.288 cd/klm

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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

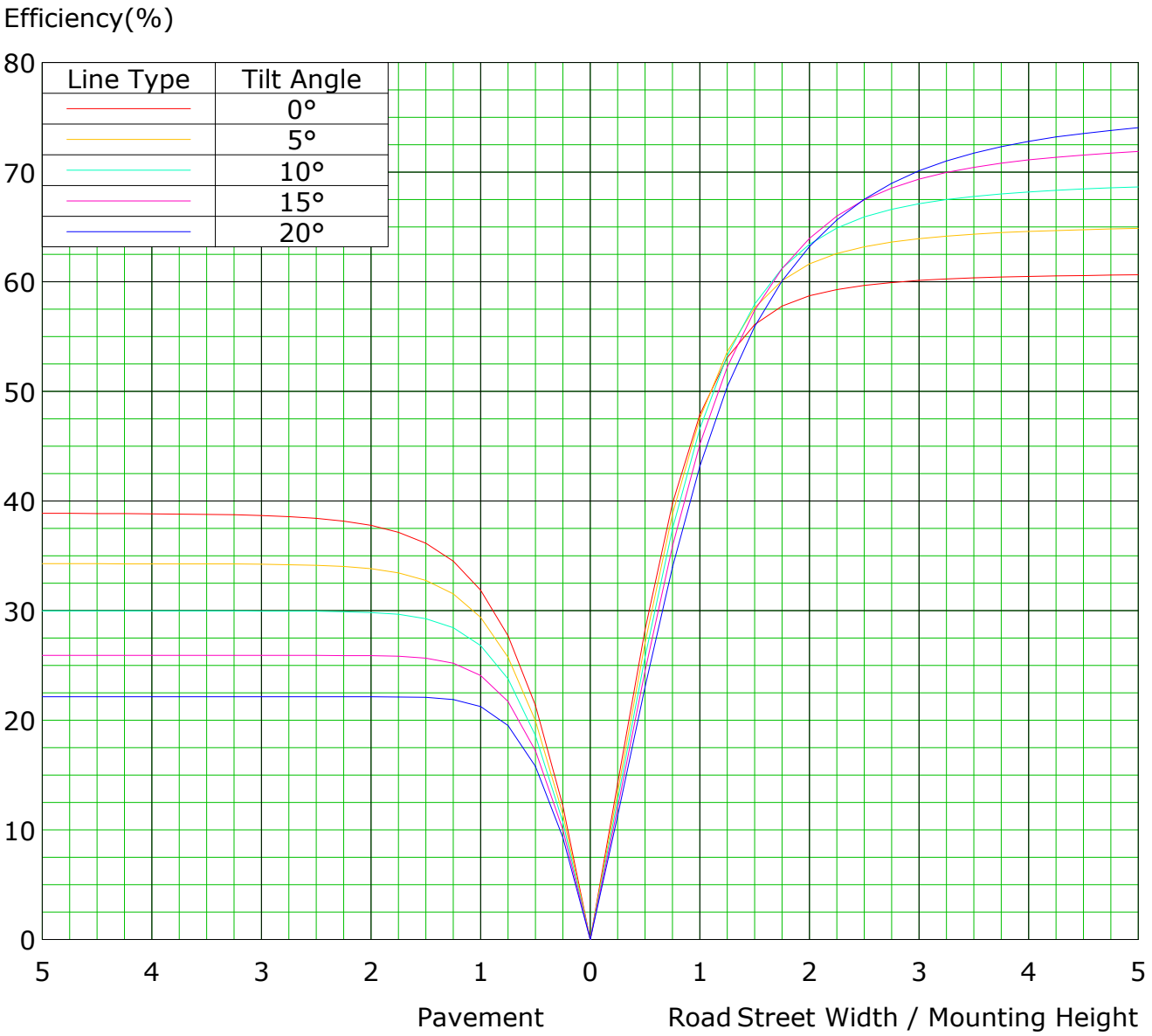


Mounting Height: 10.0m Max Lux(100%): 60.0 lx

(1%): 0.6 lx
(2%): 1.2 lx
(5%): 3.0 lx
(10%): 6.0 lx
(20%): 12.0 lx
(50%): 30.0 lx
(100%): 60.0 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: 18.8 'C
Humidity:
Operator:
Inspector:

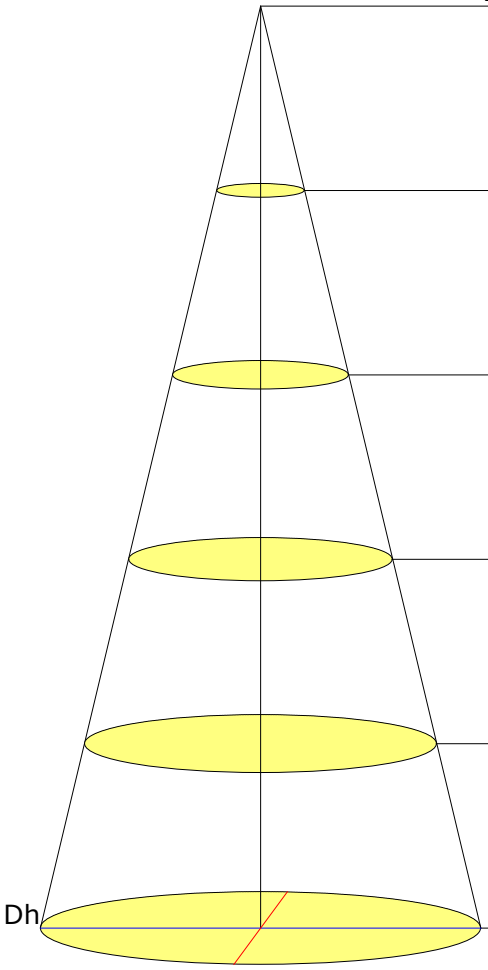
Roadway CU Curve



C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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



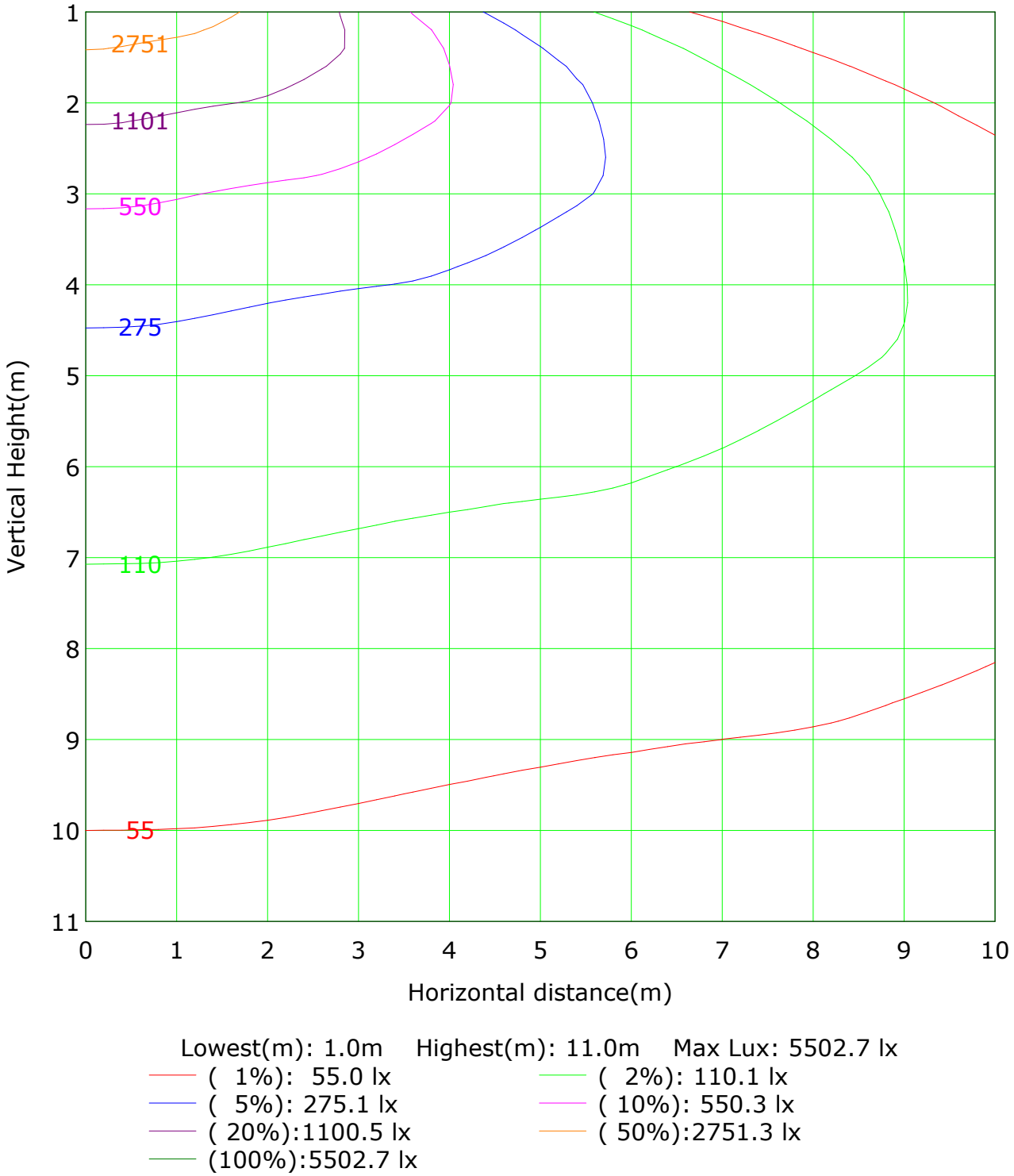
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
10.0	55.03	75.08/17.54	2022.4	5.32
20.0	13.76	150.17/35.09	8089.5	1.33
30.0	6.11	225.25/52.63	18201.5	0.59
40.0	3.44	300.33/70.17	32358.2	0.33
50.0	2.20	375.41/87.72	50559.6	0.21

Beam Angle(B): H150.2 V82.5 Field Angle(F): H164.7 V139.8

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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: 5502.7 lx

(1%): 55.0 lx	(2%): 110.1 lx
(5%): 275.1 lx	(10%): 550.3 lx
(20%):1100.5 lx	(50%):2751.3 lx
(100%):5502.7 lx	

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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

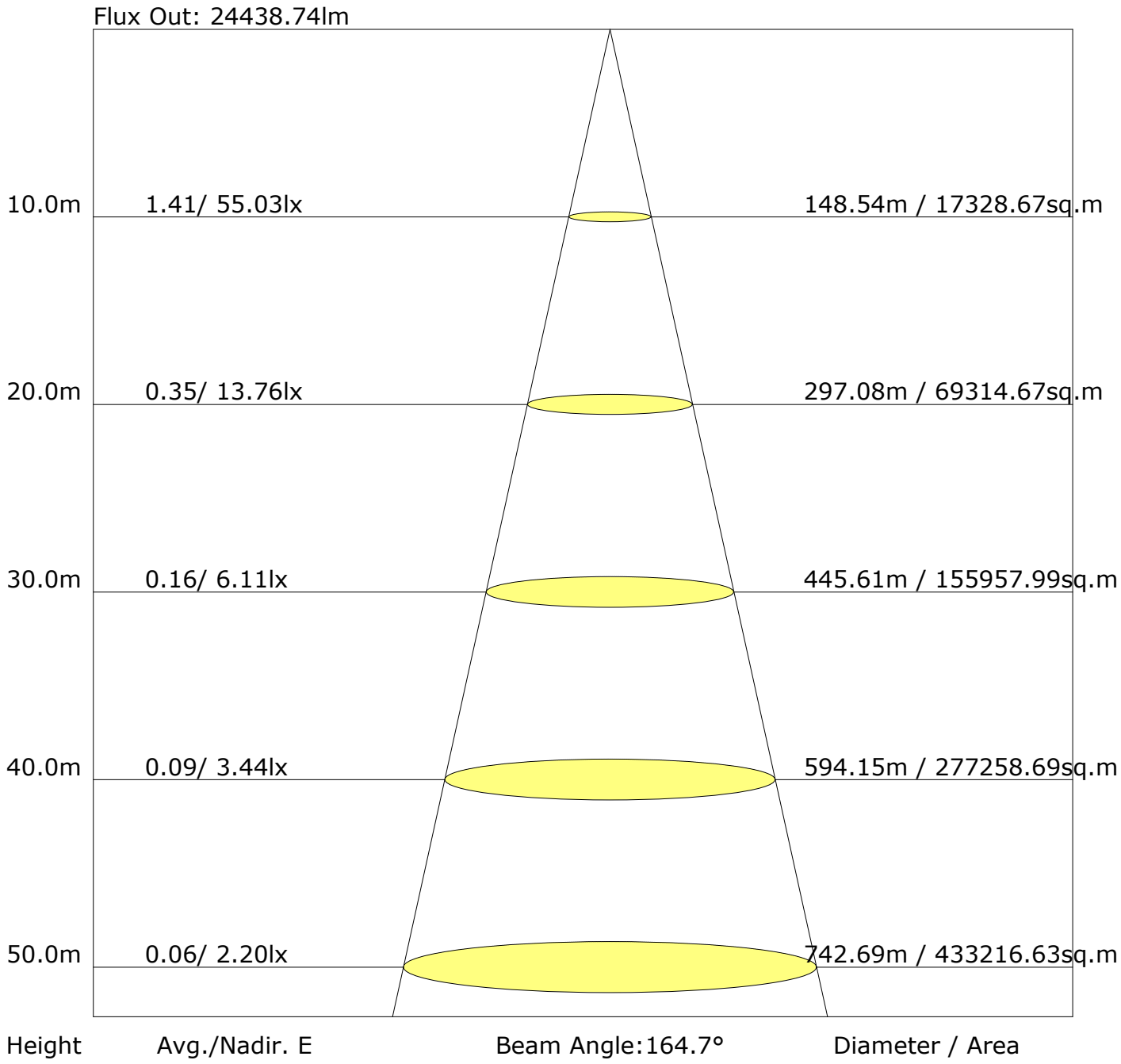
Unit: lm

Vertical plane \ Horizontal plane	-90 – -80	-80 – -70	-70 – -60	-60 – -50	-50 – -40	-40 – -30	-30 – -20	-20 – -10	-10 – 0	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80	80 – 90	Flux(T)	Flux(E)
-90 – -80	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.5	0.5	0.4	0.2	0.1	3.1	0.0
-80 – -70	0.0	0.3	1.0	1.8	3.2	4.9	6.4	7.2	7.5	8.2	8.9	8.1	6.5	4.6	2.9	2.0	0.9	0.2	74.7	0.0
-70 – -60	0.1	1.0	4.3	8.0	16.5	25.9	33.3	38.8	42.0	43.2	41.9	36.0	29.4	21.1	11.5	8.2	2.7	0.4	364.2	243.1
-60 – -50	0.1	2.9	16.6	27.8	44.6	54.7	62.4	68.1	70.7	71.8	71.3	67.0	62.3	61.9	43.8	26.7	7.4	0.8	761.1	744.0
-50 – -40	0.2	7.9	40.8	63.4	75.5	75.2	80.6	86.4	89.0	90.0	89.1	85.9	85.8	102.5	88.7	54.1	16.6	1.4	1133.3	1127.9
-40 – -30	0.4	15.6	66.6	97.7	95.2	90.7	93.3	99.7	103.0	103.5	101.7	99.3	105.1	123.9	123.3	79.0	27.9	2.1	1428.0	1425.1
-30 – -20	0.7	23.5	86.1	120.5	112.7	106.7	107.6	112.5	116.7	117.2	115.1	115.1	122.1	137.2	143.9	100.7	38.5	2.9	1679.7	1677.6
-20 – -10	1.0	30.3	100.9	133.8	129.3	126.0	126.2	130.2	134.1	134.9	133.4	133.1	138.9	151.4	155.0	118.1	47.6	3.6	1927.7	1926.1
-10 – 0	1.2	35.2	112.9	146.0	144.6	144.2	145.1	149.6	153.8	153.8	152.2	151.8	157.8	167.7	165.1	131.9	54.7	4.1	2171.6	2170.3
0 – 10	1.3	37.5	120.0	157.0	160.6	163.2	163.4	167.9	173.3	177.9	178.9	179.8	185.2	187.9	176.2	136.4	56.1	4.3	2426.8	2425.6
10 – 20	1.3	37.1	122.1	167.1	177.5	186.7	190.5	194.8	198.9	202.5	205.2	207.7	212.1	208.4	186.7	131.3	51.8	4.0	2685.8	2684.7
20 – 30	1.2	34.2	120.9	173.9	189.9	207.0	212.5	215.0	217.5	219.8	221.2	221.7	221.1	209.5	187.2	121.0	45.7	3.5	2822.7	2821.0
30 – 40	0.9	28.8	111.2	161.8	185.6	201.9	210.2	213.8	215.2	215.5	214.7	211.8	206.5	192.3	168.8	104.2	38.1	2.9	2684.1	2682.3
40 – 50	0.6	21.7	90.7	141.7	159.7	176.8	178.6	179.7	180.6	179.5	175.8	172.2	168.5	158.8	147.5	83.6	29.5	2.1	2247.5	2245.1
50 – 60	0.4	14.0	62.9	116.3	113.7	114.6	101.7	97.4	98.0	96.6	91.8	89.0	90.4	100.9	103.4	57.2	20.3	1.3	1369.8	1366.4
60 – 70	0.2	6.8	32.6	67.3	52.5	40.4	30.5	32.6	35.2	35.4	32.9	30.0	27.9	35.4	46.2	30.7	11.3	0.7	548.5	429.6
70 – 80	0.1	1.7	9.3	19.3	13.3	11.0	11.4	12.8	13.8	14.0	13.2	12.3	10.3	10.6	14.4	11.0	3.9	0.3	182.7	30.8
80 – 90	0.0	0.4	1.0	2.0	1.8	2.0	2.3	2.4	2.5	2.6	2.7	2.7	2.5	2.3	2.4	1.8	0.7	0.2	32.3	0.0
Flux(T)	9.8	298.9	1099.9	1605.3	1676.2	1732.1	1756.2	1808.9	1851.9	1866.5	1850.2	1823.6	1833.0	1876.9	1767.4	1198.4	453.8	34.8	24544	
Flux(E)	1.6	281.6	1082.6	1583.3	1647.2	1696.7	1712.3	1762.7	1808.2	1822.4	1804.0	1777.3	1790.9	1843.9	1743.1	1179.9	438.2	23.7		24000

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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: 18.8 '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

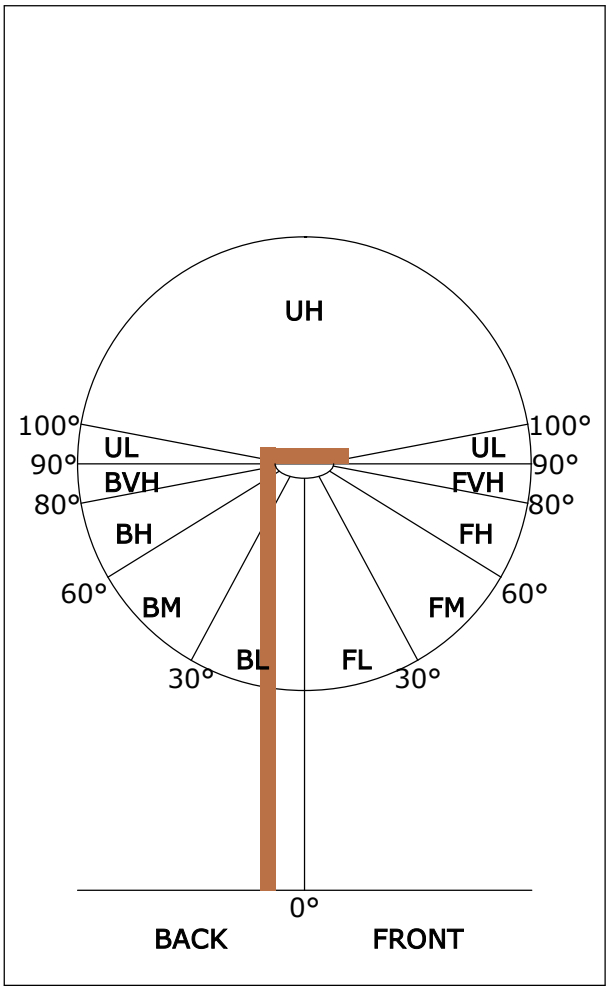
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-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 24545lm (8log(F/F0) = 11.1).

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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



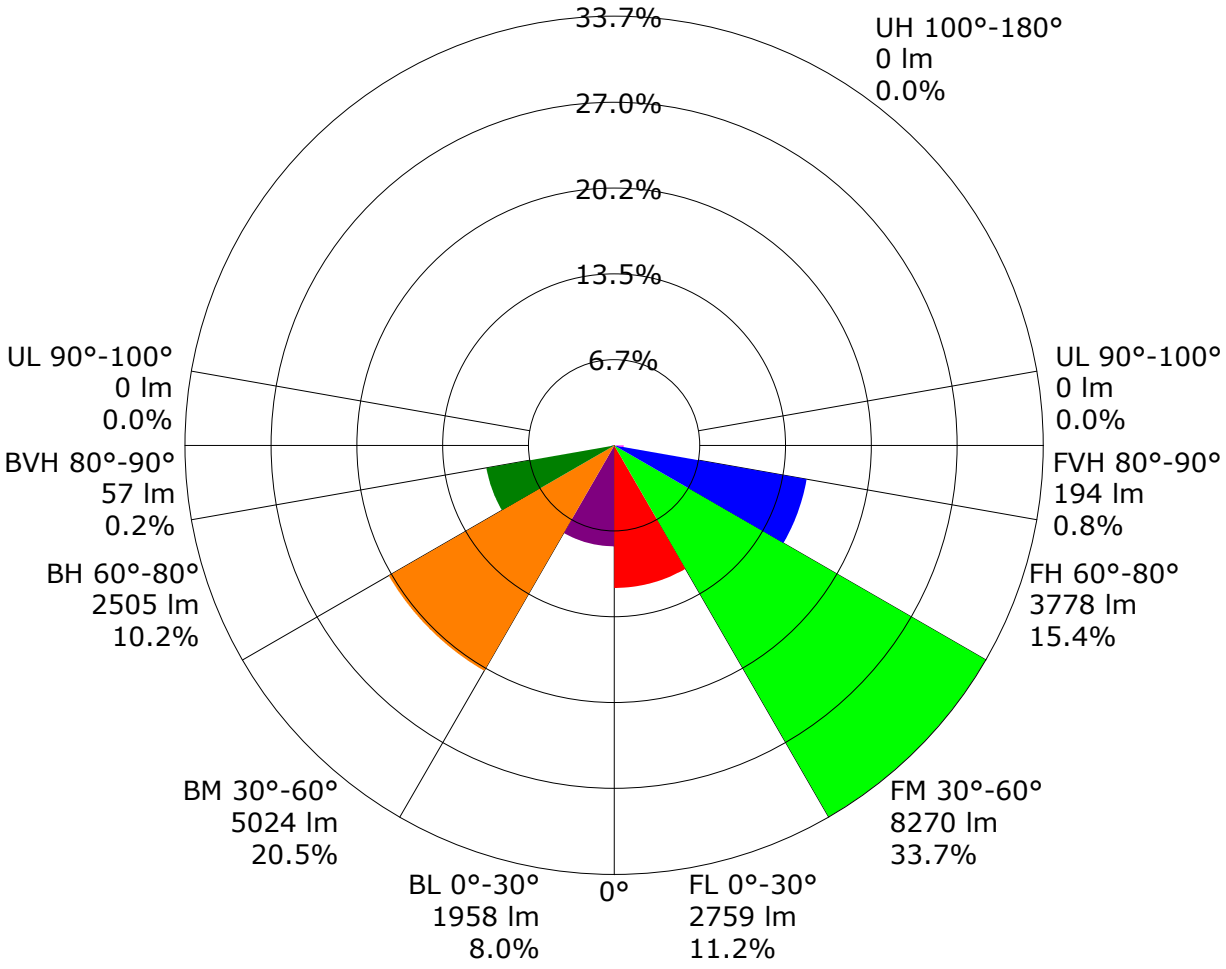
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	15001	61.1
FL (0°-30°)	2759	11.2
FM (30°-60°)	8270	33.7
FH (60°-80°)	3778	15.4
FVH (80°-90°)	194	0.8
BACK LIGHT	9544	38.9
BL (0°-30°)	1958	8.0
BM (30°-60°)	5024	20.5
BH (60°-80°)	2505	10.2
BVH (80°-90°)	57	0.2
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	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 U5 G4
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 U5 G2

C Plane (°):0.0-360.0: 15.0
Test Lab:
Test Type: TYPE C
Temperature: 18.8 '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: 18.8 'C
Operator:

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