

Report No.:

Test Time: 2023/5/9 17:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: MGC01100W27V50KWCD-V3

Lamp Catalog: L128-ETSC3-YH00F-KS(1C36B*4)

Lamp Description: MSPI-DIM100A12S-2600 Number of Lamps:

Lumens per Lamp:

Luminous Length (mm):

Luminous Width (mm):

Luminous Height (mm):

Voltage: 120.2 V

Current: 0.516 A

Power: 61.26 W

Power Factor: 0.984

Photometric Results

IES Classification: Type II

Total Rated Lamp Lumens: 9655.9 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 3607.24 cd

Pos of Max. Intensity: H240 V1

Longitudinal Classification: Very Short

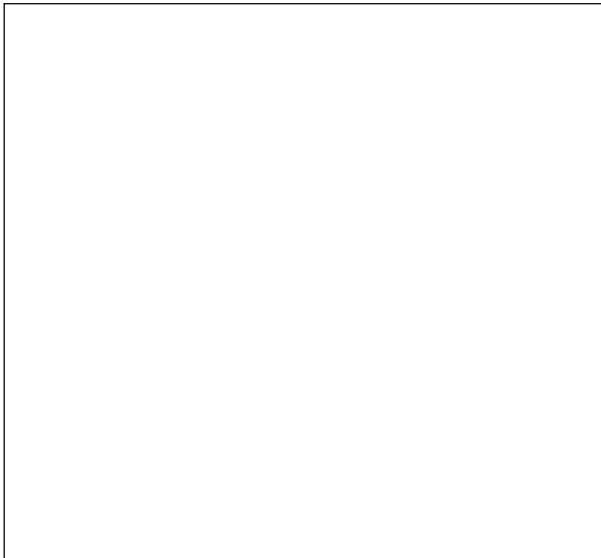
Measurement Flux: 9655.9 lm

Downward Ratio: 100%

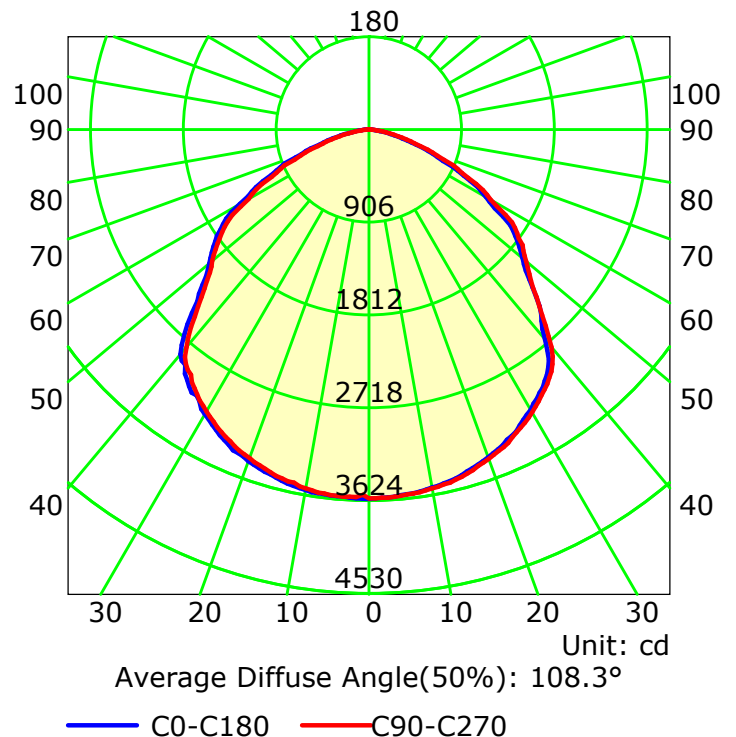
Luminaire Efficacy Rating (LER): 157.67

Max. Intensity: 3610.01 cd

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

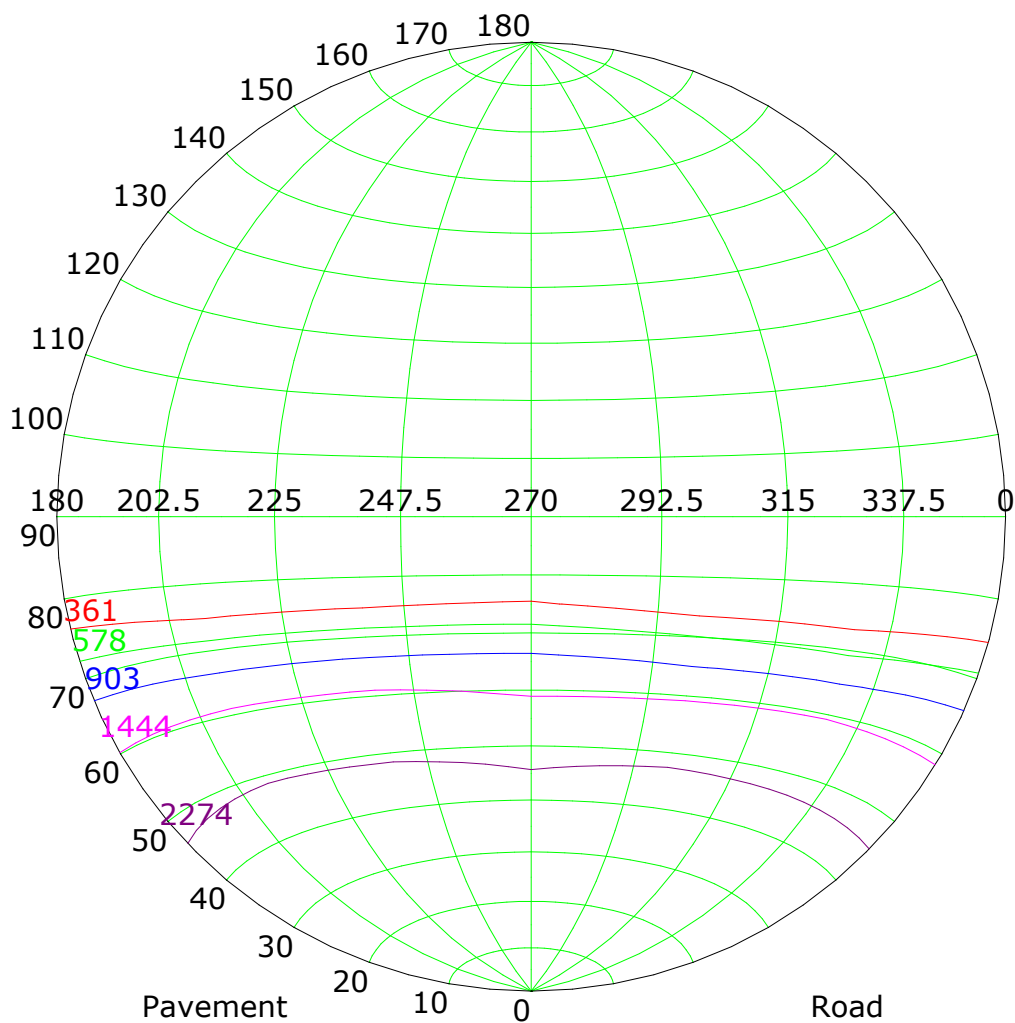
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 3610 cd

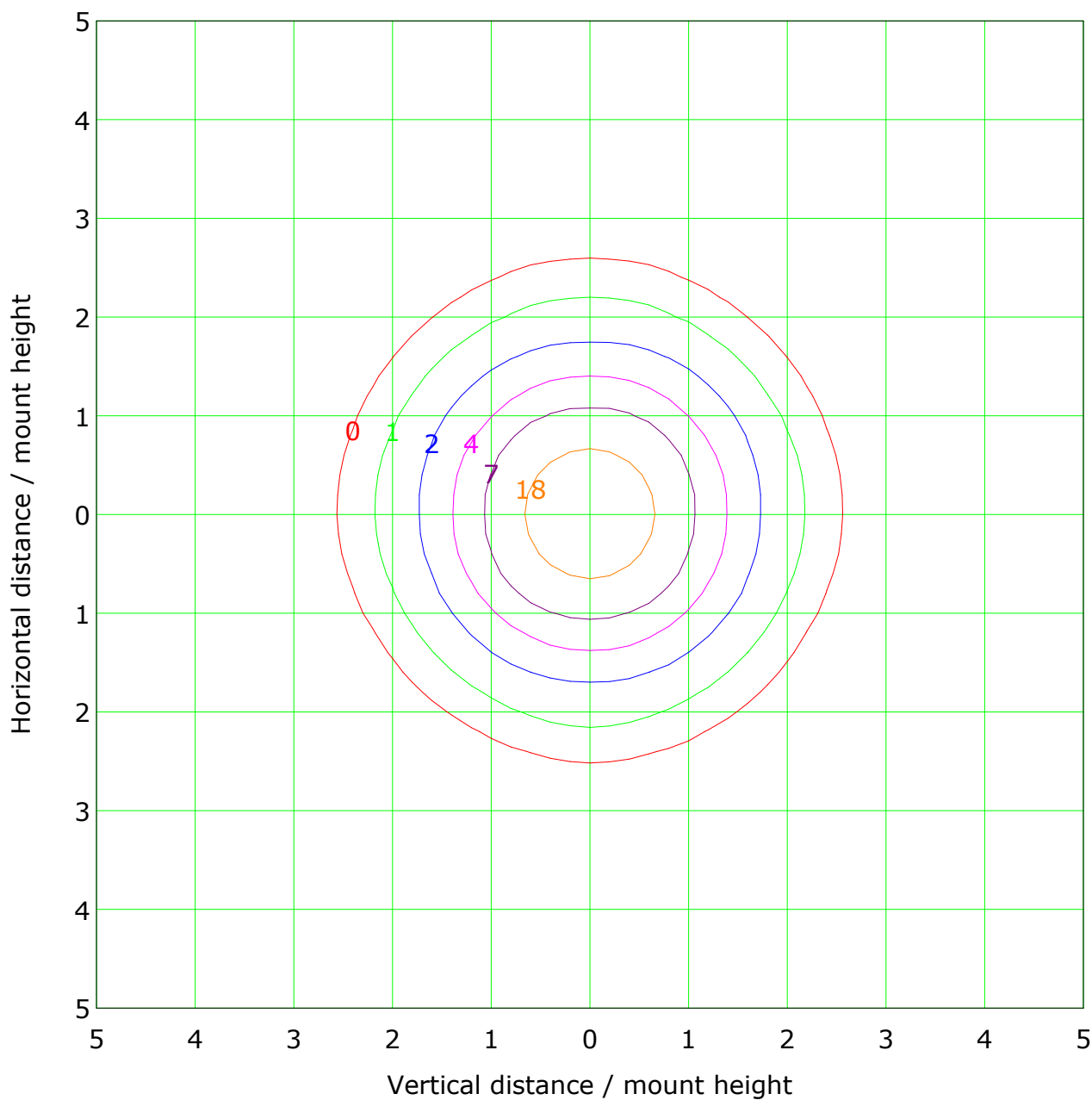
(10%): 361 cd
(25%): 903 cd
(63%): 2274 cd

(16%): 578 cd
(40%): 1444 cd
(100%): 3610 cd

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 36.1 lx	
(1%):	0.4 lx	(2%):	0.7 lx
(5%):	1.8 lx	(10%):	3.6 lx
(20%):	7.2 lx	(50%):	18.0 lx
(100%):	36.1 lx		

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

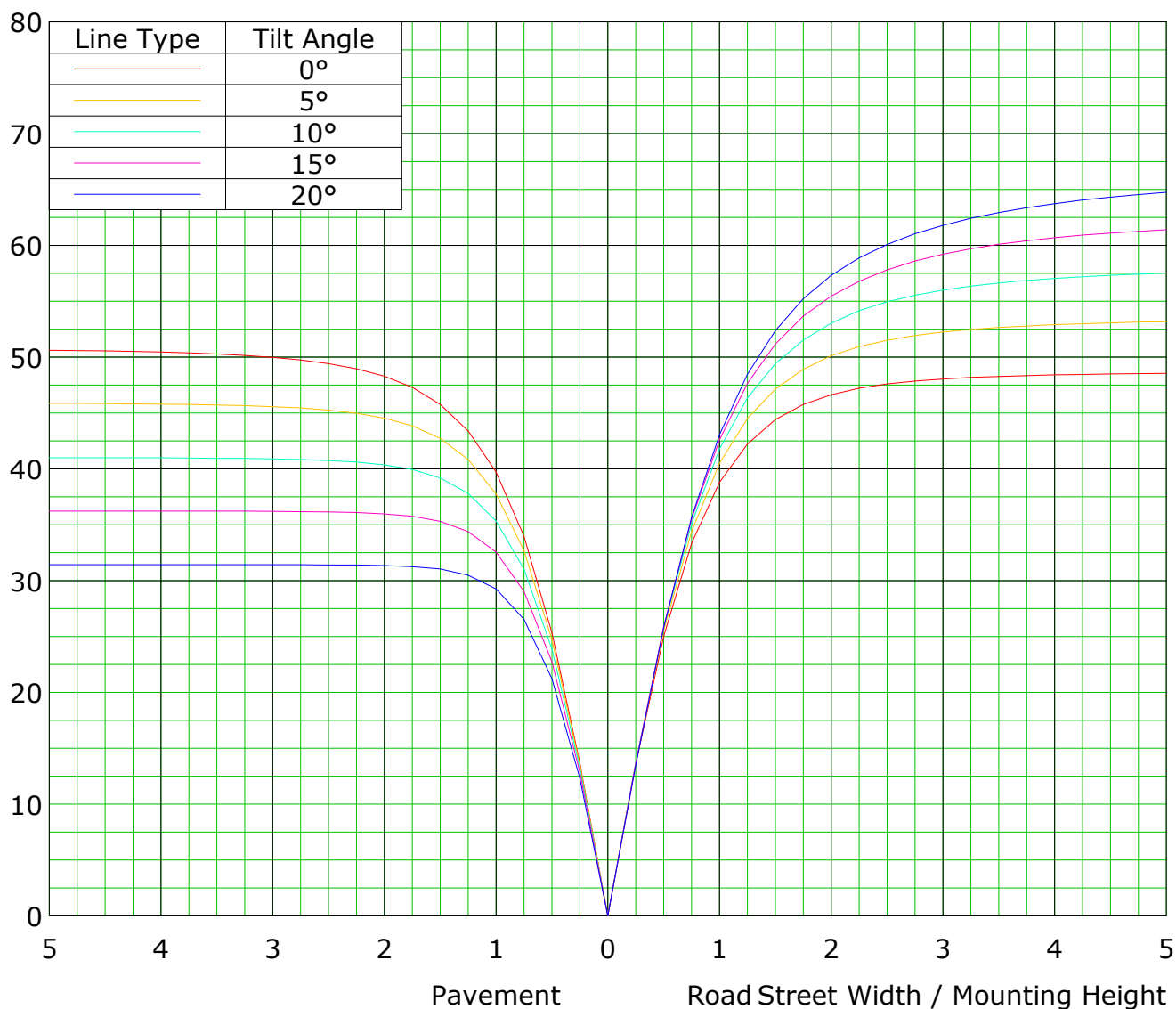
Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

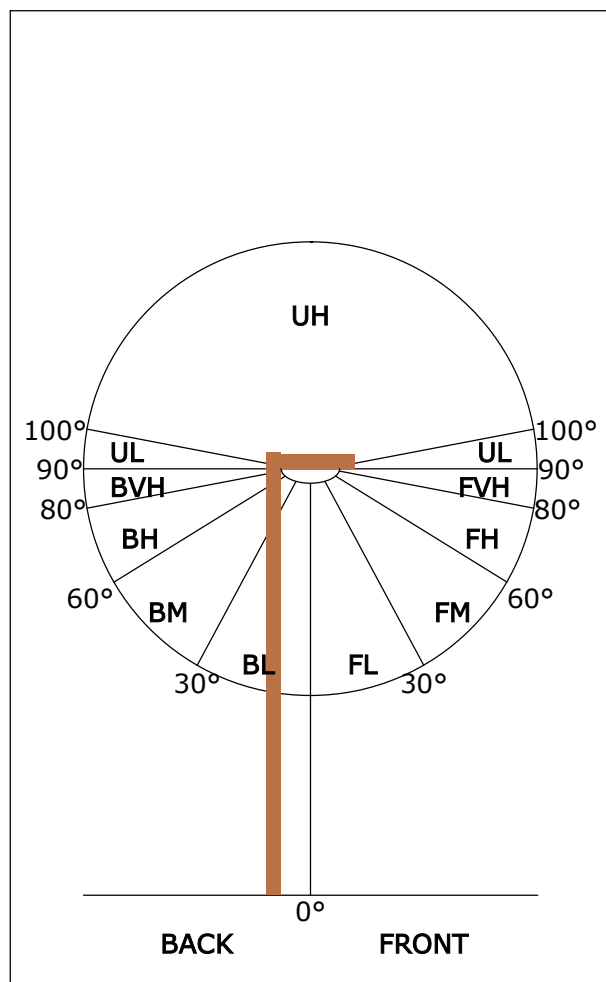
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	4721	48.9
FL (0°-30°)	1425	14.8
FM (30°-60°)	2636	27.3
FH (60°-80°)	638	6.6
FVH (80°-90°)	23	0.2
BACK LIGHT	4934	51.1
BL (0°-30°)	1438	14.9
BM (30°-60°)	2734	28.3
BH (60°-80°)	730	7.6
BVH (80°-90°)	33	0.3
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)	B3 U1 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U1 G1

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3596.0	3.4	3.4	0.04	0.04
1.0-2.0	3598.3	10.3	13.8	0.11	0.14
2.0-3.0	3598.3	17.2	31.0	0.18	0.32
3.0-4.0	3595.4	24.1	55.1	0.25	0.57
4.0-5.0	3591.5	30.9	86.0	0.32	0.89
5.0-6.0	3588.5	37.7	123.7	0.39	1.28
6.0-7.0	3584.4	44.5	168.2	0.46	1.74
7.0-8.0	3578.6	51.2	219.4	0.53	2.27
8.0-9.0	3571.9	57.9	277.3	0.60	2.87
9.0-10.0	3565.2	64.5	341.8	0.67	3.54
10.0-11.0	3557.5	71.1	412.9	0.74	4.28
11.0-12.0	3548.7	77.6	490.5	0.80	5.08
12.0-13.0	3539.4	84.0	574.5	0.87	5.95
13.0-14.0	3526.0	90.3	664.8	0.93	6.88
14.0-15.0	3510.3	96.4	761.1	1.00	7.88
15.0-16.0	3495.7	102.4	863.6	1.06	8.94
16.0-17.0	3482.3	108.5	972.0	1.12	10.07
17.0-18.0	3469.2	114.4	1086.4	1.18	11.25
18.0-19.0	3452.4	120.1	1206.6	1.24	12.50
19.0-20.0	3432.9	125.7	1332.2	1.30	13.80
20.0-21.0	3413.0	131.1	1463.3	1.36	15.15
21.0-22.0	3393.4	136.4	1599.7	1.41	16.57
22.0-23.0	3375.4	141.7	1741.3	1.47	18.03
23.0-24.0	3354.7	146.7	1888.0	1.52	19.55
24.0-25.0	3331.1	151.5	2039.5	1.57	21.12
25.0-26.0	3307.3	156.1	2195.7	1.62	22.74
26.0-27.0	3283.3	160.7	2356.3	1.66	24.40
27.0-28.0	3257.0	164.9	2521.2	1.71	26.11
28.0-29.0	3228.4	168.9	2690.2	1.75	27.86
29.0-30.0	3199.7	172.8	2862.9	1.79	29.65
30.0-31.0	3171.4	176.5	3039.5	1.83	31.48
31.0-32.0	3140.6	179.9	3219.4	1.86	33.34
32.0-33.0	3109.1	183.2	3402.6	1.90	35.24
33.0-34.0	3079.4	186.4	3589.0	1.93	37.17
34.0-35.0	3045.8	189.2	3778.2	1.96	39.13
35.0-36.0	3008.8	191.6	3969.8	1.98	41.11

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	2972.9	193.9	4163.7	2.01	43.12
37.0-38.0	2932.7	195.8	4359.5	2.03	45.15
38.0-39.0	2888.2	197.2	4556.6	2.04	47.19
39.0-40.0	2842.0	198.2	4754.9	2.05	49.24
40.0-41.0	2787.7	198.5	4953.4	2.06	51.30
41.0-42.0	2727.8	198.2	5151.6	2.05	53.35
42.0-43.0	2664.2	197.4	5349.0	2.04	55.40
43.0-44.0	2591.8	195.6	5544.6	2.03	57.42
44.0-45.0	2510.3	193.0	5737.6	2.00	59.42
45.0-46.0	2425.3	189.7	5927.3	1.96	61.38
46.0-47.0	2340.2	186.2	6113.4	1.93	63.31
47.0-48.0	2254.2	182.3	6295.7	1.89	65.20
48.0-49.0	2172.6	178.4	6474.1	1.85	67.05
49.0-50.0	2098.4	175.0	6649.1	1.81	68.86
50.0-51.0	2029.8	171.8	6820.9	1.78	70.64
51.0-52.0	1967.7	168.9	6989.7	1.75	72.39
52.0-53.0	1910.6	166.2	7156.0	1.72	74.11
53.0-54.0	1856.3	163.6	7319.6	1.69	75.80
54.0-55.0	1804.9	161.1	7480.7	1.67	77.47
55.0-56.0	1752.9	158.4	7639.2	1.64	79.11
56.0-57.0	1696.8	155.2	7794.3	1.61	80.72
57.0-58.0	1635.9	151.3	7945.6	1.57	82.29
58.0-59.0	1565.5	146.4	8092.0	1.52	83.80
59.0-60.0	1486.5	140.5	8232.5	1.45	85.26
60.0-61.0	1404.0	134.0	8366.5	1.39	86.65
61.0-62.0	1314.7	126.7	8493.2	1.31	87.96
62.0-63.0	1212.9	118.0	8611.1	1.22	89.18
63.0-64.0	1105.4	108.5	8719.6	1.12	90.30
64.0-65.0	1012.6	100.2	8819.9	1.04	91.34
65.0-66.0	939.4	93.7	8913.6	0.97	92.31
66.0-67.0	868.6	87.4	9001.0	0.90	93.22
67.0-68.0	794.3	80.5	9081.4	0.83	94.05
68.0-69.0	725.8	74.1	9155.5	0.77	94.82
69.0-70.0	664.6	68.3	9223.8	0.71	95.52
70.0-71.0	606.4	62.7	9286.4	0.65	96.17
71.0-72.0	543.6	56.5	9343.0	0.59	96.76

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	479.7	50.2	9393.1	0.52	97.28
73.0-74.0	421.7	44.3	9437.5	0.46	97.74
74.0-75.0	365.5	38.6	9476.1	0.40	98.14
75.0-76.0	311.1	33.0	9509.1	0.34	98.48
76.0-77.0	265.3	28.3	9537.4	0.29	98.77
77.0-78.0	228.2	24.4	9561.8	0.25	99.03
78.0-79.0	192.4	20.7	9582.5	0.21	99.24
79.0-80.0	158.7	17.1	9599.6	0.18	99.42
80.0-81.0	127.5	13.8	9613.4	0.14	99.56
81.0-82.0	100.0	10.8	9624.3	0.11	99.67
82.0-83.0	78.2	8.5	9632.8	0.09	99.76
83.0-84.0	60.8	6.6	9639.4	0.07	99.83
84.0-85.0	46.5	5.1	9644.5	0.05	99.88
85.0-86.0	35.3	3.9	9648.3	0.04	99.92
86.0-87.0	27.0	3.0	9651.3	0.03	99.95
87.0-88.0	20.7	2.3	9653.5	0.02	99.98
88.0-89.0	13.9	1.5	9655.1	0.02	99.99
89.0-90.0	6.4	0.7	9655.8	0.01	100.00
90.0-91.0	1.5	0.2	9655.9	0.00	100.00
91.0-92.0	0.0	0.0	9655.9	0.00	100.00
92.0-93.0	0.0	0.0	9655.9	0.00	100.00
93.0-94.0	0.0	0.0	9655.9	0.00	100.00
94.0-95.0	0.0	0.0	9655.9	0.00	100.00
95.0-96.0	0.0	0.0	9655.9	0.00	100.00
96.0-97.0	0.0	0.0	9655.9	0.00	100.00
97.0-98.0	0.0	0.0	9655.9	0.00	100.00
98.0-99.0	0.0	0.0	9655.9	0.00	100.00
99.0-100.0	0.0	0.0	9655.9	0.00	100.00
100.0-101.0	0.0	0.0	9655.9	0.00	100.00
101.0-102.0	0.0	0.0	9655.9	0.00	100.00
102.0-103.0	0.0	0.0	9655.9	0.00	100.00
103.0-104.0	0.0	0.0	9655.9	0.00	100.00
104.0-105.0	0.0	0.0	9655.9	0.00	100.00
105.0-106.0	0.0	0.0	9655.9	0.00	100.00
106.0-107.0	0.0	0.0	9655.9	0.00	100.00
107.0-108.0	0.0	0.0	9655.9	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.0	0.0	9655.9	0.00	100.00
109.0-110.0	0.0	0.0	9655.9	0.00	100.00
110.0-111.0	0.0	0.0	9655.9	0.00	100.00
111.0-112.0	0.0	0.0	9655.9	0.00	100.00
112.0-113.0	0.0	0.0	9655.9	0.00	100.00
113.0-114.0	0.0	0.0	9655.9	0.00	100.00
114.0-115.0	0.0	0.0	9655.9	0.00	100.00
115.0-116.0	0.0	0.0	9655.9	0.00	100.00
116.0-117.0	0.0	0.0	9655.9	0.00	100.00
117.0-118.0	0.0	0.0	9655.9	0.00	100.00
118.0-119.0	0.0	0.0	9655.9	0.00	100.00
119.0-120.0	0.0	0.0	9655.9	0.00	100.00
120.0-121.0	0.0	0.0	9655.9	0.00	100.00
121.0-122.0	0.0	0.0	9655.9	0.00	100.00
122.0-123.0	0.0	0.0	9655.9	0.00	100.00
123.0-124.0	0.0	0.0	9655.9	0.00	100.00
124.0-125.0	0.0	0.0	9655.9	0.00	100.00
125.0-126.0	0.0	0.0	9655.9	0.00	100.00
126.0-127.0	0.0	0.0	9655.9	0.00	100.00
127.0-128.0	0.0	0.0	9655.9	0.00	100.00
128.0-129.0	0.0	0.0	9655.9	0.00	100.00
129.0-130.0	0.0	0.0	9655.9	0.00	100.00
130.0-131.0	0.0	0.0	9655.9	0.00	100.00
131.0-132.0	0.0	0.0	9655.9	0.00	100.00
132.0-133.0	0.0	0.0	9655.9	0.00	100.00
133.0-134.0	0.0	0.0	9655.9	0.00	100.00
134.0-135.0	0.0	0.0	9655.9	0.00	100.00
135.0-136.0	0.0	0.0	9655.9	0.00	100.00
136.0-137.0	0.0	0.0	9655.9	0.00	100.00
137.0-138.0	0.0	0.0	9655.9	0.00	100.00
138.0-139.0	0.0	0.0	9655.9	0.00	100.00
139.0-140.0	0.0	0.0	9655.9	0.00	100.00
140.0-141.0	0.0	0.0	9655.9	0.00	100.00
141.0-142.0	0.0	0.0	9655.9	0.00	100.00
142.0-143.0	0.0	0.0	9655.9	0.00	100.00
143.0-144.0	0.0	0.0	9655.9	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.0	0.0	9655.9	0.00	100.00
145.0-146.0	0.0	0.0	9655.9	0.00	100.00
146.0-147.0	0.0	0.0	9655.9	0.00	100.00
147.0-148.0	0.0	0.0	9655.9	0.00	100.00
148.0-149.0	0.0	0.0	9655.9	0.00	100.00
149.0-150.0	0.0	0.0	9655.9	0.00	100.00
150.0-151.0	0.0	0.0	9655.9	0.00	100.00
151.0-152.0	0.0	0.0	9655.9	0.00	100.00
152.0-153.0	0.0	0.0	9655.9	0.00	100.00
153.0-154.0	0.0	0.0	9655.9	0.00	100.00
154.0-155.0	0.0	0.0	9655.9	0.00	100.00
155.0-156.0	0.0	0.0	9655.9	0.00	100.00
156.0-157.0	0.0	0.0	9655.9	0.00	100.00
157.0-158.0	0.0	0.0	9655.9	0.00	100.00
158.0-159.0	0.0	0.0	9655.9	0.00	100.00
159.0-160.0	0.0	0.0	9655.9	0.00	100.00
160.0-161.0	0.0	0.0	9655.9	0.00	100.00
161.0-162.0	0.0	0.0	9655.9	0.00	100.00
162.0-163.0	0.0	0.0	9655.9	0.00	100.00
163.0-164.0	0.0	0.0	9655.9	0.00	100.00
164.0-165.0	0.0	0.0	9655.9	0.00	100.00
165.0-166.0	0.0	0.0	9655.9	0.00	100.00
166.0-167.0	0.0	0.0	9655.9	0.00	100.00
167.0-168.0	0.0	0.0	9655.9	0.00	100.00
168.0-169.0	0.0	0.0	9655.9	0.00	100.00
169.0-170.0	0.0	0.0	9655.9	0.00	100.00
170.0-171.0	0.0	0.0	9655.9	0.00	100.00
171.0-172.0	0.0	0.0	9655.9	0.00	100.00
172.0-173.0	0.0	0.0	9655.9	0.00	100.00
173.0-174.0	0.0	0.0	9655.9	0.00	100.00
174.0-175.0	0.0	0.0	9655.9	0.00	100.00
175.0-176.0	0.0	0.0	9655.9	0.00	100.00
176.0-177.0	0.0	0.0	9655.9	0.00	100.00
177.0-178.0	0.0	0.0	9655.9	0.00	100.00
178.0-179.0	0.0	0.0	9655.9	0.00	100.00
179.0-180.0	0.0	0.0	9655.9	0.00	100.00

C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 11.655 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 5737.59 lm

%lum = 59.4%

%lamp = 59.4%

cone flux(120°): 8232.46 lm

%lum = 85.3%

%lamp = 85.3%

LED Average Luminance Report

Avg.L	cd/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