

Report No.:

Test Time: 2023/5/9 15:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: MGC01100W27V50KWCD

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: 0.861 A

Power: 102.09 W

Power Factor: 0.984

Photometric Results

IES Classification: Type II

Total Rated Lamp Lumens: 15047.7 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 5621.47 cd

Pos of Max. Intensity: H240 V1

Longitudinal Classification: Very Short

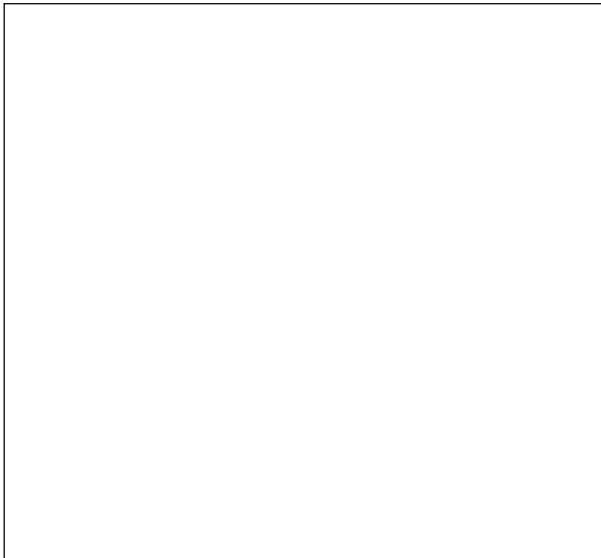
Measurement Flux: 15047.7 lm

Downward Ratio: 100%

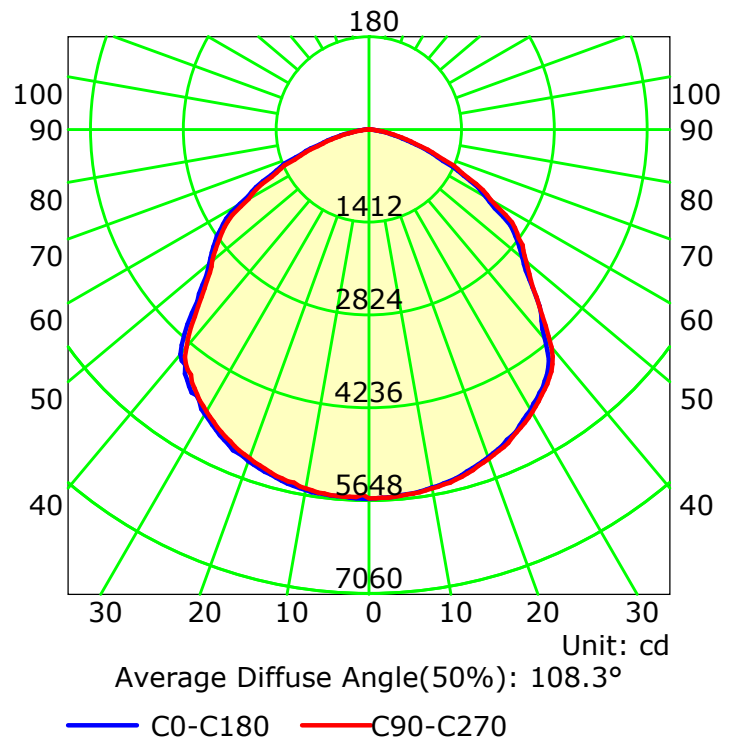
Luminaire Efficacy Rating (LER): 147.45

Max. Intensity: 5625.78 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

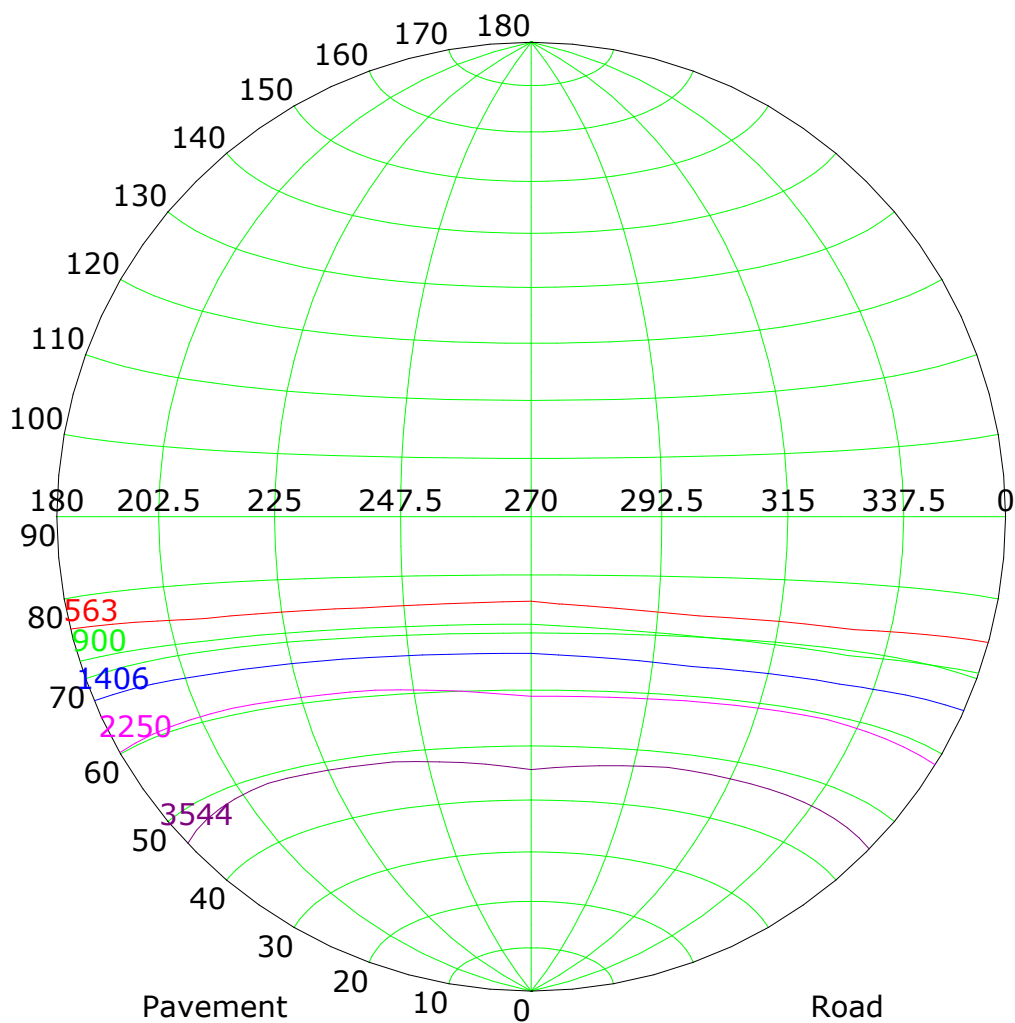
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 5626 cd

(10%): 563 cd
(25%): 1406 cd
(63%): 3544 cd

(16%): 900 cd
(40%): 2250 cd
(100%): 5626 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

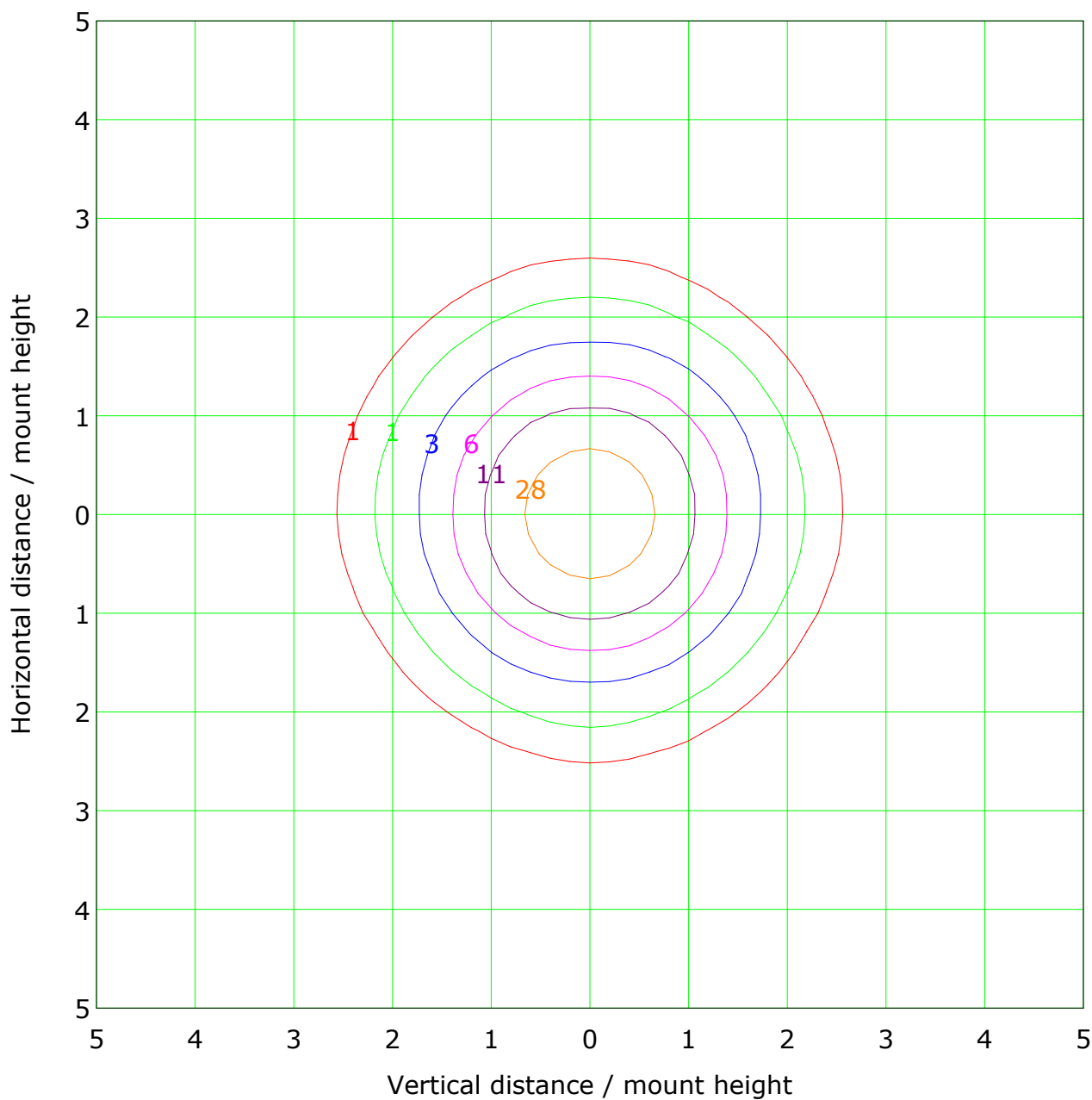
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 56.2 lx

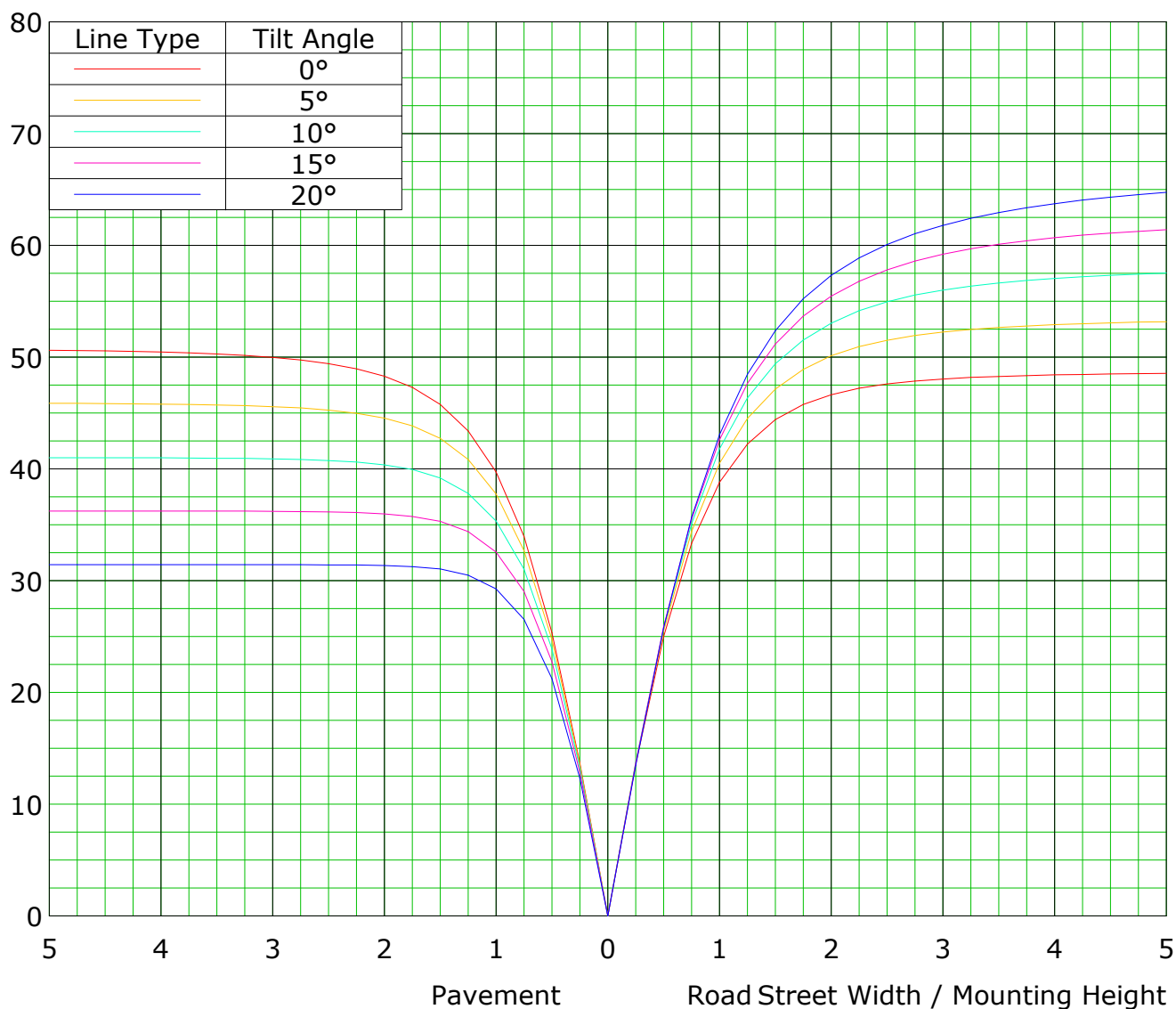
(1%): 0.6 lx	(2%): 1.1 lx
(5%): 2.8 lx	(10%): 5.6 lx
(20%): 11.2 lx	(50%): 28.1 lx
(100%): 56.2 lx	

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

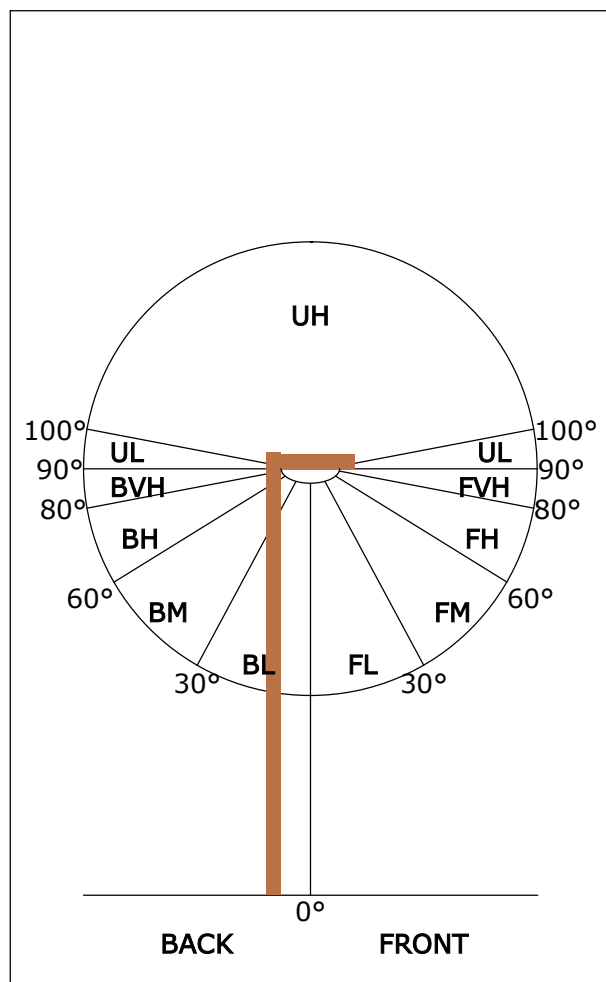
Test Device: GPM-1800B

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	7358	48.9
FL (0°-30°)	2220	14.8
FM (30°-60°)	4107	27.3
FH (60°-80°)	994	6.6
FVH (80°-90°)	36	0.2
BACK LIGHT	7690	51.1
BL (0°-30°)	2241	14.9
BM (30°-60°)	4260	28.3
BH (60°-80°)	1137	7.6
BVH (80°-90°)	51	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 G3
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	5603.9	5.4	5.4	0.04	0.04
1.0-2.0	5607.6	16.1	21.5	0.11	0.14
2.0-3.0	5607.6	26.8	48.3	0.18	0.32
3.0-4.0	5603.0	37.5	85.8	0.25	0.57
4.0-5.0	5597.0	48.2	133.9	0.32	0.89
5.0-6.0	5592.2	58.8	192.7	0.39	1.28
6.0-7.0	5585.8	69.3	262.1	0.46	1.74
7.0-8.0	5576.8	79.8	341.9	0.53	2.27
8.0-9.0	5566.4	90.2	432.1	0.60	2.87
9.0-10.0	5556.0	100.6	532.7	0.67	3.54
10.0-11.0	5544.0	110.8	643.5	0.74	4.28
11.0-12.0	5530.3	120.9	764.4	0.80	5.08
12.0-13.0	5515.7	130.9	895.3	0.87	5.95
13.0-14.0	5494.8	140.7	1036.0	0.93	6.88
14.0-15.0	5470.4	150.2	1186.2	1.00	7.88
15.0-16.0	5447.7	159.6	1345.8	1.06	8.94
16.0-17.0	5426.7	169.0	1514.8	1.12	10.07
17.0-18.0	5406.4	178.3	1693.1	1.18	11.25
18.0-19.0	5380.2	187.2	1880.3	1.24	12.50
19.0-20.0	5349.8	195.8	2076.1	1.30	13.80
20.0-21.0	5318.7	204.3	2280.4	1.36	15.15
21.0-22.0	5288.2	212.5	2492.9	1.41	16.57
22.0-23.0	5260.2	220.7	2713.7	1.47	18.03
23.0-24.0	5227.8	228.6	2942.3	1.52	19.55
24.0-25.0	5191.1	236.1	3178.4	1.57	21.12
25.0-26.0	5154.0	243.3	3421.7	1.62	22.74
26.0-27.0	5116.6	250.4	3672.0	1.66	24.40
27.0-28.0	5075.7	257.0	3929.1	1.71	26.11
28.0-29.0	5031.1	263.3	4192.3	1.75	27.86
29.0-30.0	4986.3	269.3	4461.6	1.79	29.65
30.0-31.0	4942.3	275.1	4736.6	1.83	31.48
31.0-32.0	4894.2	280.4	5017.1	1.86	33.34
32.0-33.0	4845.2	285.5	5302.5	1.90	35.24
33.0-34.0	4798.9	290.5	5593.0	1.93	37.17
34.0-35.0	4746.6	294.8	5887.8	1.96	39.13
35.0-36.0	4688.9	298.6	6186.4	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	4632.9	302.2	6488.6	2.01	43.12
37.0-38.0	4570.2	305.1	6793.7	2.03	45.15
38.0-39.0	4501.0	307.3	7101.0	2.04	47.19
39.0-40.0	4429.0	308.9	7409.9	2.05	49.24
40.0-41.0	4344.4	309.4	7719.3	2.06	51.30
41.0-42.0	4251.0	308.9	8028.2	2.05	53.35
42.0-43.0	4151.8	307.6	8335.8	2.04	55.40
43.0-44.0	4039.0	304.9	8640.7	2.03	57.42
44.0-45.0	3912.1	300.7	8941.4	2.00	59.42
45.0-46.0	3779.6	295.6	9237.0	1.96	61.38
46.0-47.0	3647.0	290.1	9527.1	1.93	63.31
47.0-48.0	3513.0	284.0	9811.1	1.89	65.20
48.0-49.0	3385.7	278.1	10089.2	1.85	67.05
49.0-50.0	3270.1	272.7	10361.9	1.81	68.86
50.0-51.0	3163.3	267.7	10629.5	1.78	70.64
51.0-52.0	3066.5	263.2	10892.7	1.75	72.39
52.0-53.0	2977.4	259.0	11151.7	1.72	74.11
53.0-54.0	2892.9	255.0	11406.8	1.69	75.80
54.0-55.0	2812.7	251.1	11657.9	1.67	77.47
55.0-56.0	2731.8	246.9	11904.7	1.64	79.11
56.0-57.0	2644.3	241.8	12146.6	1.61	80.72
57.0-58.0	2549.3	235.8	12382.3	1.57	82.29
58.0-59.0	2439.7	228.1	12610.4	1.52	83.80
59.0-60.0	2316.6	218.9	12829.3	1.45	85.26
60.0-61.0	2188.0	208.8	13038.2	1.39	86.65
61.0-62.0	2048.8	197.4	13235.6	1.31	87.96
62.0-63.0	1890.2	183.9	13419.5	1.22	89.18
63.0-64.0	1722.7	169.1	13588.5	1.12	90.30
64.0-65.0	1578.1	156.2	13744.7	1.04	91.34
65.0-66.0	1463.9	146.1	13890.8	0.97	92.31
66.0-67.0	1353.6	136.1	14026.9	0.90	93.22
67.0-68.0	1237.8	125.4	14152.4	0.83	94.05
68.0-69.0	1131.1	115.4	14267.8	0.77	94.82
69.0-70.0	1035.8	106.4	14374.1	0.71	95.52
70.0-71.0	945.0	97.7	14471.8	0.65	96.17
71.0-72.0	847.1	88.1	14559.9	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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	747.5	78.2	14638.1	0.52	97.28
73.0-74.0	657.1	69.1	14707.2	0.46	97.74
74.0-75.0	569.6	60.2	14767.4	0.40	98.14
75.0-76.0	484.8	51.5	14818.9	0.34	98.48
76.0-77.0	413.4	44.1	14862.9	0.29	98.77
77.0-78.0	355.6	38.1	14901.0	0.25	99.03
78.0-79.0	299.9	32.2	14933.2	0.21	99.24
79.0-80.0	247.4	26.7	14959.9	0.18	99.42
80.0-81.0	198.8	21.5	14981.4	0.14	99.56
81.0-82.0	155.8	16.9	14998.3	0.11	99.67
82.0-83.0	121.8	13.2	15011.6	0.09	99.76
83.0-84.0	94.8	10.3	15021.9	0.07	99.83
84.0-85.0	72.5	7.9	15029.8	0.05	99.88
85.0-86.0	55.0	6.0	15035.8	0.04	99.92
86.0-87.0	42.0	4.6	15040.4	0.03	99.95
87.0-88.0	32.2	3.5	15043.9	0.02	99.98
88.0-89.0	21.6	2.4	15046.3	0.02	99.99
89.0-90.0	10.0	1.1	15047.4	0.01	100.00
90.0-91.0	2.3	0.3	15047.7	0.00	100.00
91.0-92.0	0.0	0.0	15047.7	0.00	100.00
92.0-93.0	0.0	0.0	15047.7	0.00	100.00
93.0-94.0	0.0	0.0	15047.7	0.00	100.00
94.0-95.0	0.0	0.0	15047.7	0.00	100.00
95.0-96.0	0.0	0.0	15047.7	0.00	100.00
96.0-97.0	0.0	0.0	15047.7	0.00	100.00
97.0-98.0	0.0	0.0	15047.7	0.00	100.00
98.0-99.0	0.0	0.0	15047.7	0.00	100.00
99.0-100.0	0.0	0.0	15047.7	0.00	100.00
100.0-101.0	0.0	0.0	15047.7	0.00	100.00
101.0-102.0	0.0	0.0	15047.7	0.00	100.00
102.0-103.0	0.0	0.0	15047.7	0.00	100.00
103.0-104.0	0.0	0.0	15047.7	0.00	100.00
104.0-105.0	0.0	0.0	15047.7	0.00	100.00
105.0-106.0	0.0	0.0	15047.7	0.00	100.00
106.0-107.0	0.0	0.0	15047.7	0.00	100.00
107.0-108.0	0.0	0.0	15047.7	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	15047.7	0.00	100.00
109.0-110.0	0.0	0.0	15047.7	0.00	100.00
110.0-111.0	0.0	0.0	15047.7	0.00	100.00
111.0-112.0	0.0	0.0	15047.7	0.00	100.00
112.0-113.0	0.0	0.0	15047.7	0.00	100.00
113.0-114.0	0.0	0.0	15047.7	0.00	100.00
114.0-115.0	0.0	0.0	15047.7	0.00	100.00
115.0-116.0	0.0	0.0	15047.7	0.00	100.00
116.0-117.0	0.0	0.0	15047.7	0.00	100.00
117.0-118.0	0.0	0.0	15047.7	0.00	100.00
118.0-119.0	0.0	0.0	15047.7	0.00	100.00
119.0-120.0	0.0	0.0	15047.7	0.00	100.00
120.0-121.0	0.0	0.0	15047.7	0.00	100.00
121.0-122.0	0.0	0.0	15047.7	0.00	100.00
122.0-123.0	0.0	0.0	15047.7	0.00	100.00
123.0-124.0	0.0	0.0	15047.7	0.00	100.00
124.0-125.0	0.0	0.0	15047.7	0.00	100.00
125.0-126.0	0.0	0.0	15047.7	0.00	100.00
126.0-127.0	0.0	0.0	15047.7	0.00	100.00
127.0-128.0	0.0	0.0	15047.7	0.00	100.00
128.0-129.0	0.0	0.0	15047.7	0.00	100.00
129.0-130.0	0.0	0.0	15047.7	0.00	100.00
130.0-131.0	0.0	0.0	15047.7	0.00	100.00
131.0-132.0	0.0	0.0	15047.7	0.00	100.00
132.0-133.0	0.0	0.0	15047.7	0.00	100.00
133.0-134.0	0.0	0.0	15047.7	0.00	100.00
134.0-135.0	0.0	0.0	15047.7	0.00	100.00
135.0-136.0	0.0	0.0	15047.7	0.00	100.00
136.0-137.0	0.0	0.0	15047.7	0.00	100.00
137.0-138.0	0.0	0.0	15047.7	0.00	100.00
138.0-139.0	0.0	0.0	15047.7	0.00	100.00
139.0-140.0	0.0	0.0	15047.7	0.00	100.00
140.0-141.0	0.0	0.0	15047.7	0.00	100.00
141.0-142.0	0.0	0.0	15047.7	0.00	100.00
142.0-143.0	0.0	0.0	15047.7	0.00	100.00
143.0-144.0	0.0	0.0	15047.7	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	15047.7	0.00	100.00
145.0-146.0	0.0	0.0	15047.7	0.00	100.00
146.0-147.0	0.0	0.0	15047.7	0.00	100.00
147.0-148.0	0.0	0.0	15047.7	0.00	100.00
148.0-149.0	0.0	0.0	15047.7	0.00	100.00
149.0-150.0	0.0	0.0	15047.7	0.00	100.00
150.0-151.0	0.0	0.0	15047.7	0.00	100.00
151.0-152.0	0.0	0.0	15047.7	0.00	100.00
152.0-153.0	0.0	0.0	15047.7	0.00	100.00
153.0-154.0	0.0	0.0	15047.7	0.00	100.00
154.0-155.0	0.0	0.0	15047.7	0.00	100.00
155.0-156.0	0.0	0.0	15047.7	0.00	100.00
156.0-157.0	0.0	0.0	15047.7	0.00	100.00
157.0-158.0	0.0	0.0	15047.7	0.00	100.00
158.0-159.0	0.0	0.0	15047.7	0.00	100.00
159.0-160.0	0.0	0.0	15047.7	0.00	100.00
160.0-161.0	0.0	0.0	15047.7	0.00	100.00
161.0-162.0	0.0	0.0	15047.7	0.00	100.00
162.0-163.0	0.0	0.0	15047.7	0.00	100.00
163.0-164.0	0.0	0.0	15047.7	0.00	100.00
164.0-165.0	0.0	0.0	15047.7	0.00	100.00
165.0-166.0	0.0	0.0	15047.7	0.00	100.00
166.0-167.0	0.0	0.0	15047.7	0.00	100.00
167.0-168.0	0.0	0.0	15047.7	0.00	100.00
168.0-169.0	0.0	0.0	15047.7	0.00	100.00
169.0-170.0	0.0	0.0	15047.7	0.00	100.00
170.0-171.0	0.0	0.0	15047.7	0.00	100.00
171.0-172.0	0.0	0.0	15047.7	0.00	100.00
172.0-173.0	0.0	0.0	15047.7	0.00	100.00
173.0-174.0	0.0	0.0	15047.7	0.00	100.00
174.0-175.0	0.0	0.0	15047.7	0.00	100.00
175.0-176.0	0.0	0.0	15047.7	0.00	100.00
176.0-177.0	0.0	0.0	15047.7	0.00	100.00
177.0-178.0	0.0	0.0	15047.7	0.00	100.00
178.0-179.0	0.0	0.0	15047.7	0.00	100.00
179.0-180.0	0.0	0.0	15047.7	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°): 8941.37 lm

%lum = 59.4%

%lamp = 59.4%

cone flux(120°): 12829.34 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