

Report No.:

Test Time: 2024/3/28

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: 210-01-26W-27V-3CCT-D(100%)

Lamp Catalog:

Lamp Description:

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.213 A

Power Factor: 0.990

Lumens per Lamp:

Luminous Width (mm):

Voltage: 120.8 V

Power: 25.51 W

## Photometric Results

IES Classification: Type IV

Total Rated Lamp Lumens: 2894.9 lm

Efficiency: 100%

Upward Ratio: 9%

C0r0 Intensity: 473.71 cd

Pos of Max. Intensity: H300 V36

Longitudinal Classification: Very Short

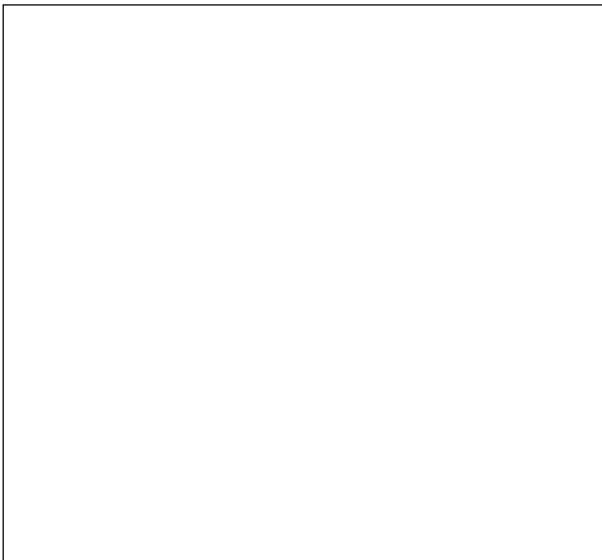
Measurement Flux: 2894.9 lm

Downward Ratio: 91%

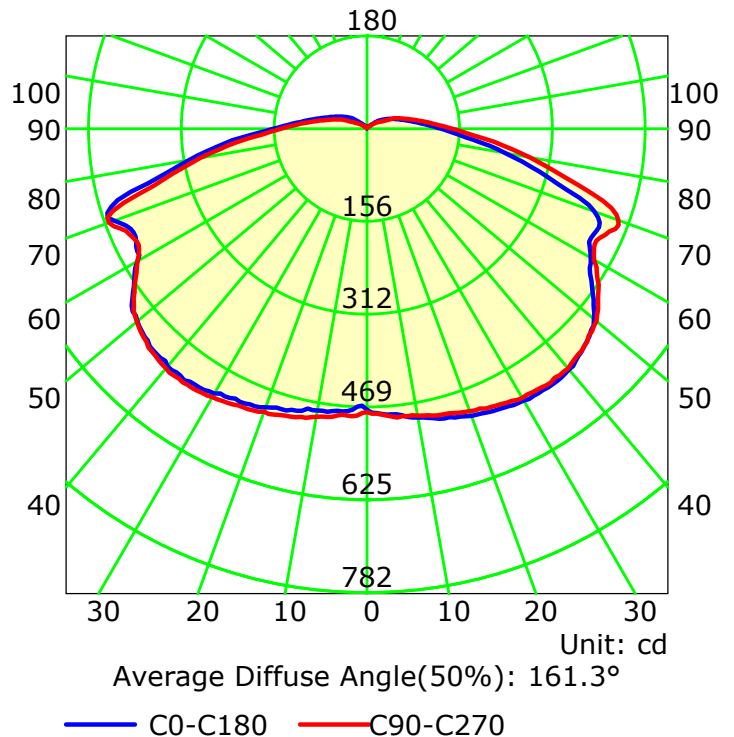
Luminaire Efficacy Rating (LER): 113.53

Max. Intensity: 549.97 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

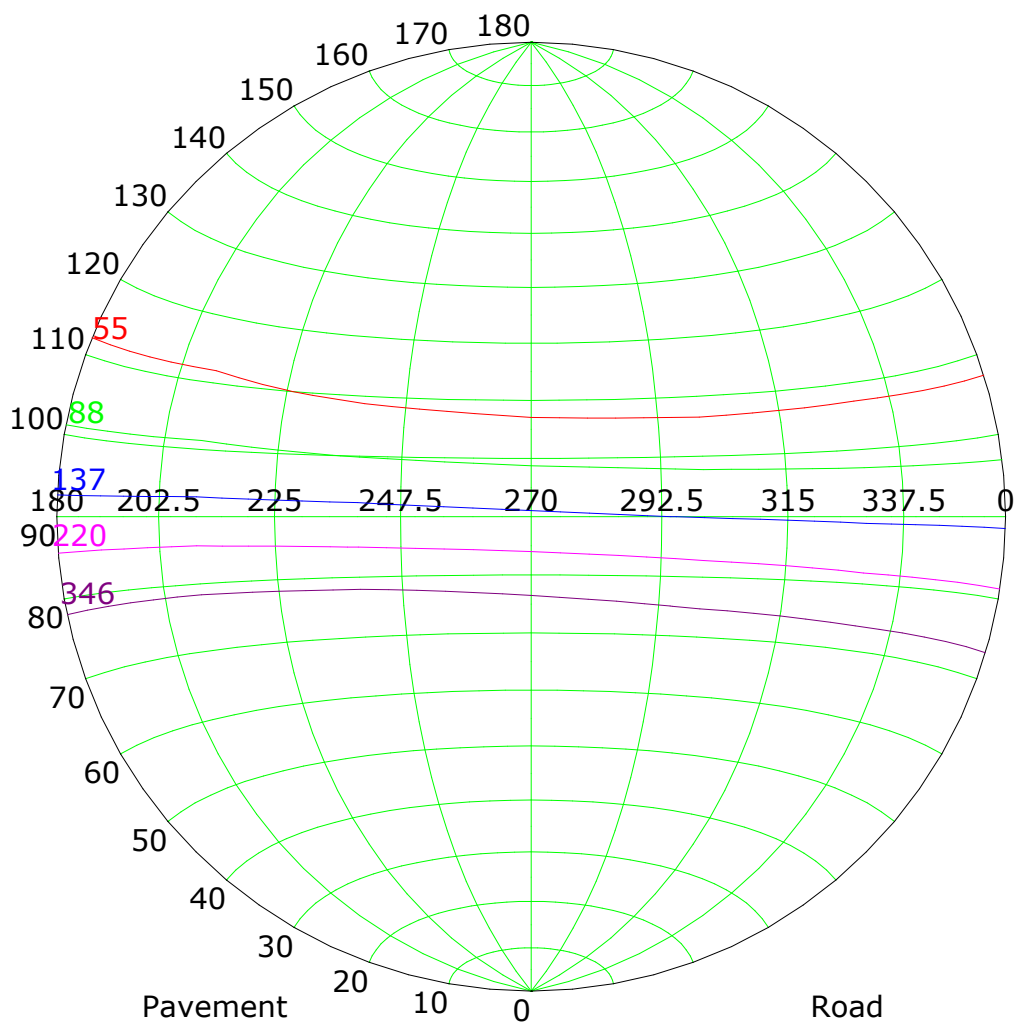
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 550 cd

( 10%):	55 cd	( 16%):	88 cd
( 25%):	137 cd	( 40%):	220 cd
( 63%):	346 cd	(100%):	550 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

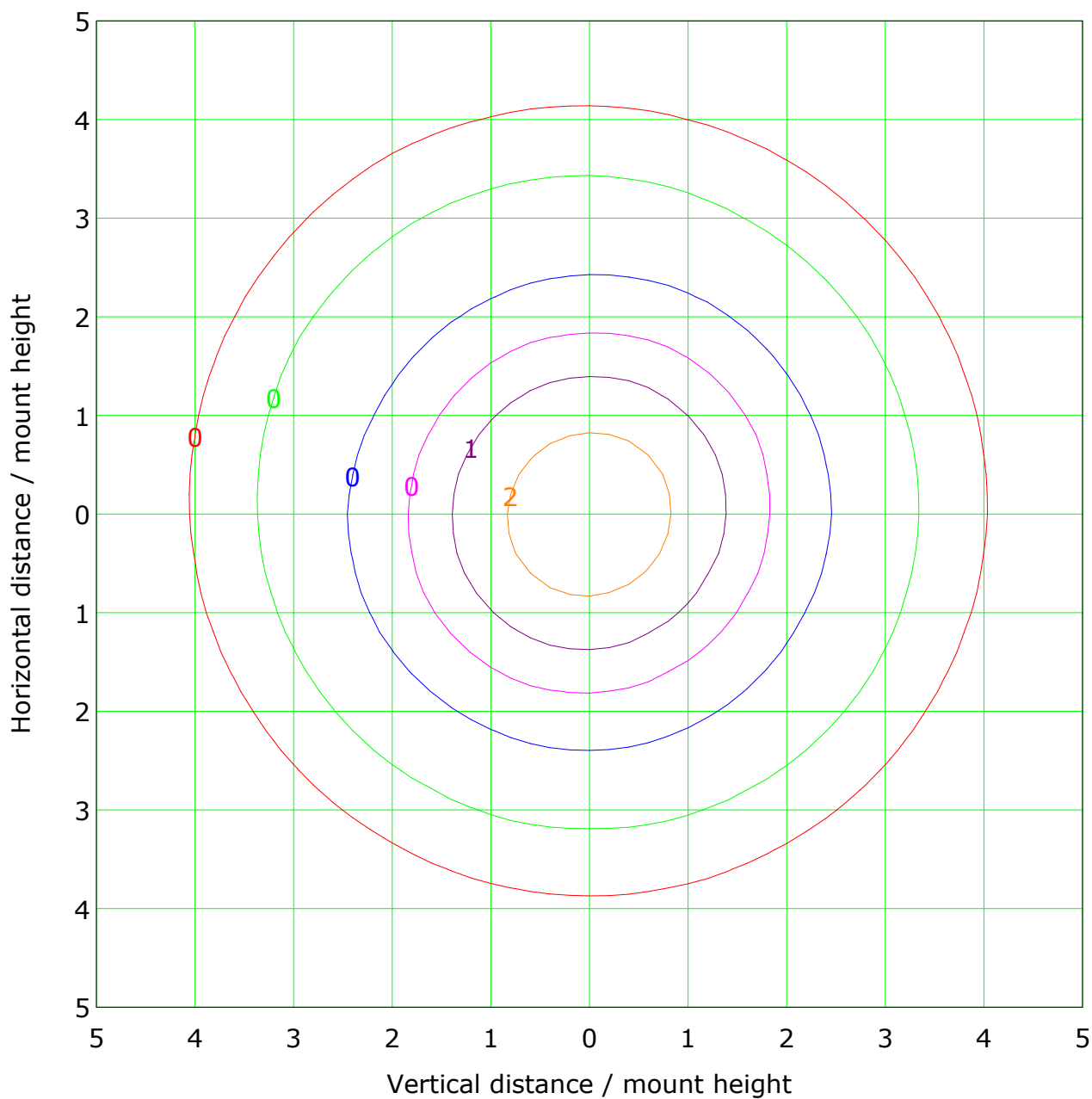
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 4.8 lx

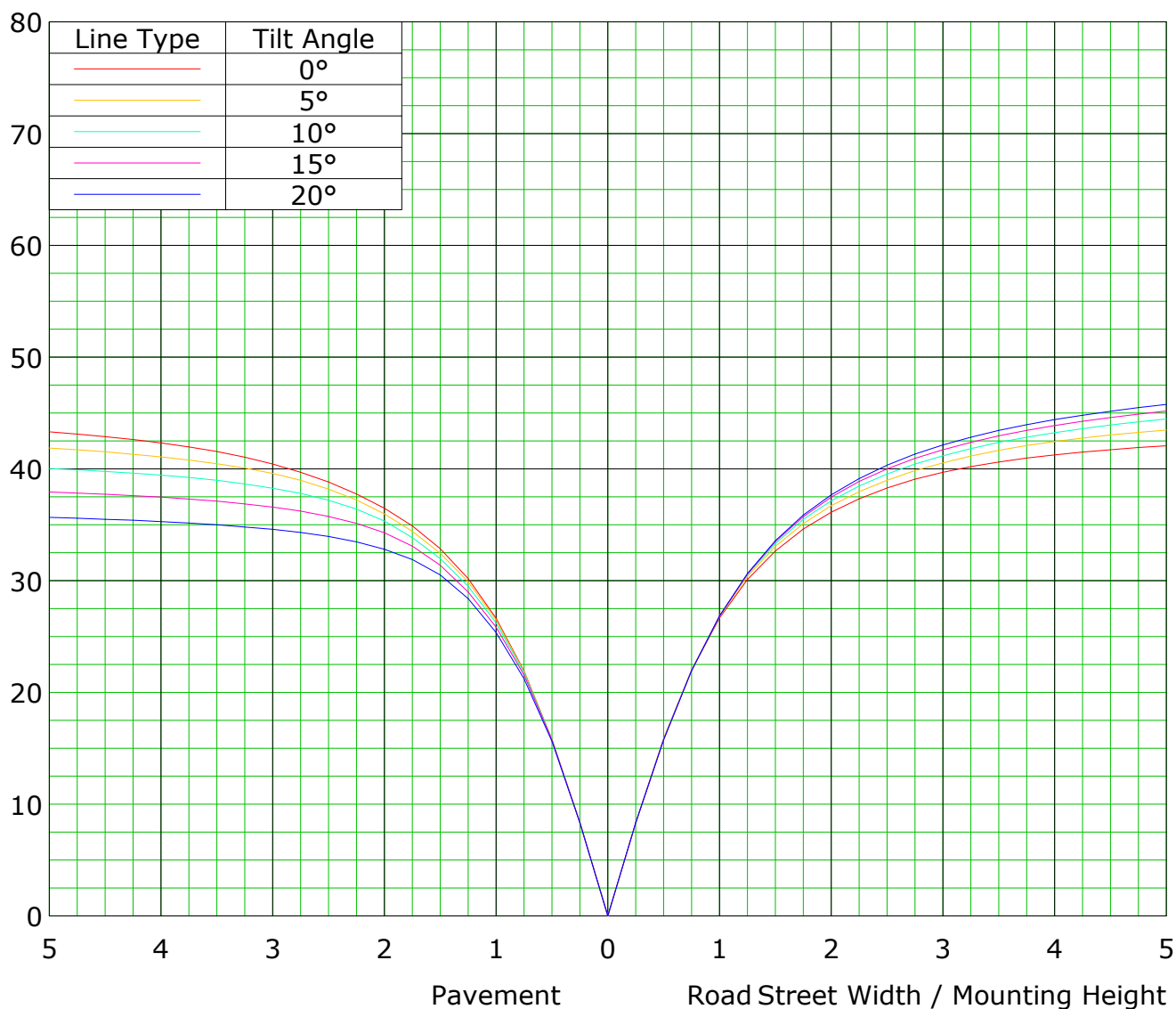
( 1%): 0.0 lx	( 2%): 0.1 lx
( 5%): 0.2 lx	( 10%): 0.5 lx
( 20%): 1.0 lx	( 50%): 2.4 lx
(100%): 4.8 lx	

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	1288	44.5
	FL ( 0°-30°)	217	7.5
	FM (30°-60°)	577	19.9
	FH (60°-80°)	393	13.6
	FVH (80°-90°)	101	3.5
	BACK LIGHT	1340	46.3
	BL ( 0°-30°)	213	7.4
	BM (30°-60°)	582	20.1
	BH (60°-80°)	425	14.7
	BVH (80°-90°)	120	4.1
	UP LIGHT	267	9.2
	UL (90°-100°)	121	4.2
	UH (100°-180°)	146	5.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	476.6	0.5	0.5	0.02	0.02
1.0-2.0	478.1	1.4	1.8	0.05	0.06
2.0-3.0	480.5	2.3	4.1	0.08	0.14
3.0-4.0	482.5	3.2	7.4	0.11	0.25
4.0-5.0	483.8	4.2	11.5	0.14	0.40
5.0-6.0	484.8	5.1	16.6	0.18	0.57
6.0-7.0	485.9	6.0	22.6	0.21	0.78
7.0-8.0	487.7	7.0	29.6	0.24	1.02
8.0-9.0	489.4	7.9	37.6	0.27	1.30
9.0-10.0	490.7	8.9	46.4	0.31	1.60
10.0-11.0	492.3	9.8	56.3	0.34	1.94
11.0-12.0	494.2	10.8	67.1	0.37	2.32
12.0-13.0	496.5	11.8	78.9	0.41	2.72
13.0-14.0	499.0	12.8	91.6	0.44	3.17
14.0-15.0	500.7	13.7	105.4	0.47	3.64
15.0-16.0	502.3	14.7	120.1	0.51	4.15
16.0-17.0	504.1	15.7	135.8	0.54	4.69
17.0-18.0	506.1	16.7	152.5	0.58	5.27
18.0-19.0	508.3	17.7	170.2	0.61	5.88
19.0-20.0	510.3	18.7	188.9	0.65	6.52
20.0-21.0	512.0	19.7	208.5	0.68	7.20
21.0-22.0	513.7	20.6	229.2	0.71	7.92
22.0-23.0	515.6	21.6	250.8	0.75	8.66
23.0-24.0	517.5	22.6	273.4	0.78	9.45
24.0-25.0	519.0	23.6	297.0	0.82	10.26
25.0-26.0	520.4	24.6	321.6	0.85	11.11
26.0-27.0	522.3	25.6	347.2	0.88	11.99
27.0-28.0	523.8	26.5	373.7	0.92	12.91
28.0-29.0	524.9	27.5	401.2	0.95	13.86
29.0-30.0	526.5	28.4	429.6	0.98	14.84
30.0-31.0	528.0	29.4	459.0	1.02	15.85
31.0-32.0	529.1	30.3	489.3	1.05	16.90
32.0-33.0	530.0	31.2	520.5	1.08	17.98
33.0-34.0	530.6	32.1	552.6	1.11	19.09
34.0-35.0	531.1	33.0	585.6	1.14	20.23
35.0-36.0	531.4	33.8	619.5	1.17	21.40

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	531.5	34.7	654.1	1.20	22.60
37.0-38.0	531.1	35.5	689.6	1.22	23.82
38.0-39.0	530.7	36.2	725.8	1.25	25.07
39.0-40.0	530.0	37.0	762.8	1.28	26.35
40.0-41.0	528.6	37.6	800.4	1.30	27.65
41.0-42.0	526.9	38.3	838.7	1.32	28.97
42.0-43.0	525.1	38.9	877.6	1.34	30.32
43.0-44.0	523.0	39.5	917.1	1.36	31.68
44.0-45.0	521.2	40.1	957.2	1.38	33.06
45.0-46.0	518.9	40.6	997.8	1.40	34.47
46.0-47.0	516.2	41.1	1038.8	1.42	35.88
47.0-48.0	513.1	41.5	1080.3	1.43	37.32
48.0-49.0	509.4	41.8	1122.1	1.45	38.76
49.0-50.0	506.0	42.2	1164.3	1.46	40.22
50.0-51.0	501.9	42.5	1206.8	1.47	41.69
51.0-52.0	496.7	42.6	1249.4	1.47	43.16
52.0-53.0	490.5	42.7	1292.1	1.47	44.63
53.0-54.0	483.6	42.6	1334.7	1.47	46.11
54.0-55.0	476.5	42.5	1377.3	1.47	47.58
55.0-56.0	469.5	42.4	1419.7	1.47	49.04
56.0-57.0	463.0	42.3	1462.0	1.46	50.50
57.0-58.0	457.2	42.3	1504.3	1.46	51.96
58.0-59.0	452.0	42.3	1546.6	1.46	53.42
59.0-60.0	446.9	42.2	1588.8	1.46	54.88
60.0-61.0	441.8	42.2	1631.0	1.46	56.34
61.0-62.0	438.0	42.2	1673.2	1.46	57.80
62.0-63.0	435.3	42.3	1715.5	1.46	59.26
63.0-64.0	433.0	42.5	1758.0	1.47	60.73
64.0-65.0	431.5	42.7	1800.7	1.48	62.20
65.0-66.0	430.9	43.0	1843.7	1.49	63.69
66.0-67.0	431.5	43.4	1887.1	1.50	65.19
67.0-68.0	433.5	43.9	1931.1	1.52	66.71
68.0-69.0	436.5	44.5	1975.6	1.54	68.24
69.0-70.0	438.2	45.0	2020.6	1.55	69.80
70.0-71.0	437.1	45.2	2065.8	1.56	71.36
71.0-72.0	431.3	44.9	2110.6	1.55	72.91

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	418.7	43.8	2154.4	1.51	74.42
73.0-74.0	400.5	42.1	2196.5	1.45	75.88
74.0-75.0	379.3	40.1	2236.6	1.38	77.26
75.0-76.0	356.7	37.9	2274.5	1.31	78.57
76.0-77.0	335.2	35.7	2310.2	1.23	79.80
77.0-78.0	316.3	33.9	2344.1	1.17	80.97
78.0-79.0	299.4	32.2	2376.3	1.11	82.09
79.0-80.0	283.5	30.6	2406.8	1.06	83.14
80.0-81.0	267.9	29.0	2435.8	1.00	84.14
81.0-82.0	252.3	27.4	2463.2	0.95	85.09
82.0-83.0	236.8	25.7	2488.9	0.89	85.98
83.0-84.0	221.7	24.2	2513.1	0.83	86.81
84.0-85.0	206.8	22.6	2535.6	0.78	87.59
85.0-86.0	192.3	21.0	2556.7	0.73	88.32
86.0-87.0	178.9	19.6	2576.3	0.68	88.99
87.0-88.0	167.1	18.3	2594.6	0.63	89.63
88.0-89.0	156.9	17.2	2611.8	0.59	90.22
89.0-90.0	148.0	16.2	2628.0	0.56	90.78
90.0-91.0	139.9	15.3	2643.3	0.53	91.31
91.0-92.0	132.4	14.5	2657.9	0.50	91.81
92.0-93.0	125.3	13.7	2671.6	0.47	92.29
93.0-94.0	118.7	13.0	2684.6	0.45	92.73
94.0-95.0	112.3	12.3	2696.8	0.42	93.16
95.0-96.0	106.2	11.6	2708.4	0.40	93.56
96.0-97.0	100.6	11.0	2719.4	0.38	93.94
97.0-98.0	95.3	10.4	2729.8	0.36	94.30
98.0-99.0	90.2	9.8	2739.5	0.34	94.63
99.0-100.0	85.6	9.3	2748.8	0.32	94.95
100.0-101.0	81.4	8.8	2757.6	0.30	95.26
101.0-102.0	77.3	8.3	2765.9	0.29	95.54
102.0-103.0	73.7	7.9	2773.8	0.27	95.82
103.0-104.0	70.2	7.5	2781.2	0.26	96.07
104.0-105.0	66.8	7.1	2788.3	0.25	96.32
105.0-106.0	63.8	6.7	2795.1	0.23	96.55
106.0-107.0	61.0	6.4	2801.5	0.22	96.77
107.0-108.0	58.2	6.1	2807.6	0.21	96.98

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	55.7	5.8	2813.4	0.20	97.18
109.0-110.0	53.2	5.5	2818.9	0.19	97.37
110.0-111.0	50.8	5.2	2824.1	0.18	97.55
111.0-112.0	48.4	4.9	2829.0	0.17	97.72
112.0-113.0	45.8	4.6	2833.7	0.16	97.88
113.0-114.0	43.2	4.3	2838.0	0.15	98.04
114.0-115.0	40.8	4.1	2842.1	0.14	98.18
115.0-116.0	38.7	3.8	2845.9	0.13	98.31
116.0-117.0	36.9	3.6	2849.5	0.13	98.43
117.0-118.0	35.2	3.4	2853.0	0.12	98.55
118.0-119.0	33.4	3.2	2856.2	0.11	98.66
119.0-120.0	31.8	3.0	2859.2	0.10	98.77
120.0-121.0	30.2	2.9	2862.1	0.10	98.87
121.0-122.0	28.7	2.7	2864.8	0.09	98.96
122.0-123.0	27.2	2.5	2867.3	0.09	99.05
123.0-124.0	25.7	2.4	2869.6	0.08	99.13
124.0-125.0	24.3	2.2	2871.8	0.08	99.20
125.0-126.0	22.9	2.0	2873.9	0.07	99.27
126.0-127.0	21.5	1.9	2875.7	0.07	99.34
127.0-128.0	20.1	1.7	2877.5	0.06	99.40
128.0-129.0	18.6	1.6	2879.1	0.06	99.45
129.0-130.0	17.2	1.5	2880.5	0.05	99.50
130.0-131.0	15.9	1.3	2881.9	0.05	99.55
131.0-132.0	14.6	1.2	2883.1	0.04	99.59
132.0-133.0	13.3	1.1	2884.1	0.04	99.63
133.0-134.0	12.1	1.0	2885.1	0.03	99.66
134.0-135.0	11.1	0.9	2886.0	0.03	99.69
135.0-136.0	10.1	0.8	2886.8	0.03	99.72
136.0-137.0	9.3	0.7	2887.5	0.02	99.74
137.0-138.0	8.5	0.6	2888.1	0.02	99.76
138.0-139.0	7.8	0.6	2888.7	0.02	99.78
139.0-140.0	7.2	0.5	2889.2	0.02	99.80
140.0-141.0	6.7	0.5	2889.6	0.02	99.82
141.0-142.0	6.1	0.4	2890.1	0.01	99.83
142.0-143.0	5.7	0.4	2890.4	0.01	99.85
143.0-144.0	5.3	0.3	2890.8	0.01	99.86

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	5.0	0.3	2891.1	0.01	99.87
145.0-146.0	4.8	0.3	2891.4	0.01	99.88
146.0-147.0	4.5	0.3	2891.7	0.01	99.89
147.0-148.0	4.4	0.3	2891.9	0.01	99.90
148.0-149.0	4.3	0.2	2892.2	0.01	99.91
149.0-150.0	4.1	0.2	2892.4	0.01	99.91
150.0-151.0	3.9	0.2	2892.6	0.01	99.92
151.0-152.0	3.8	0.2	2892.8	0.01	99.93
152.0-153.0	3.7	0.2	2893.0	0.01	99.93
153.0-154.0	3.6	0.2	2893.2	0.01	99.94
154.0-155.0	3.4	0.2	2893.3	0.01	99.95
155.0-156.0	3.3	0.2	2893.5	0.01	99.95
156.0-157.0	3.2	0.1	2893.6	0.00	99.96
157.0-158.0	3.1	0.1	2893.8	0.00	99.96
158.0-159.0	3.0	0.1	2893.9	0.00	99.97
159.0-160.0	2.9	0.1	2894.0	0.00	99.97
160.0-161.0	2.9	0.1	2894.1	0.00	99.97
161.0-162.0	2.8	0.1	2894.2	0.00	99.98
162.0-163.0	2.6	0.1	2894.3	0.00	99.98
163.0-164.0	2.5	0.1	2894.4	0.00	99.98
164.0-165.0	2.4	0.1	2894.4	0.00	99.98
165.0-166.0	2.4	0.1	2894.5	0.00	99.99
166.0-167.0	2.3	0.1	2894.6	0.00	99.99
167.0-168.0	2.3	0.1	2894.6	0.00	99.99
168.0-169.0	2.2	0.0	2894.7	0.00	99.99
169.0-170.0	2.1	0.0	2894.7	0.00	99.99
170.0-171.0	2.0	0.0	2894.7	0.00	99.99
171.0-172.0	2.0	0.0	2894.8	0.00	100.00
172.0-173.0	2.0	0.0	2894.8	0.00	100.00
173.0-174.0	1.9	0.0	2894.8	0.00	100.00
174.0-175.0	1.9	0.0	2894.8	0.00	100.00
175.0-176.0	1.9	0.0	2894.9	0.00	100.00
176.0-177.0	1.9	0.0	2894.9	0.00	100.00
177.0-178.0	1.9	0.0	2894.9	0.00	100.00
178.0-179.0	2.0	0.0	2894.9	0.00	100.00
179.0-180.0	2.0	0.0	2894.9	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°): 957.17 lm

%lum = 33.1%

%lamp = 33.1%

cone flux(120°): 1588.81 lm

%lum = 54.9%

%lamp = 54.9%

## LED Average Luminance Report

Avg.L	cd/m <sup>2</sup>
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