

Report No.:

Test Time: 2024/3/21

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: 211-01-26W-27V-3CCT-D(100%)

Lamp Catalog:

Lamp Description:

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.202 A

Power Factor: 0.991

Lumens per Lamp:

Luminous Width (mm):

Voltage: 120.9 V

Power: 24.26 W

## Photometric Results

IES Classification: Type IV

Total Rated Lamp Lumens: 2867.7 lm

Efficiency: 100%

Upward Ratio: 9%

C0r0 Intensity: 497.03 cd

Pos of Max. Intensity: H30 V37

Longitudinal Classification: Very Short

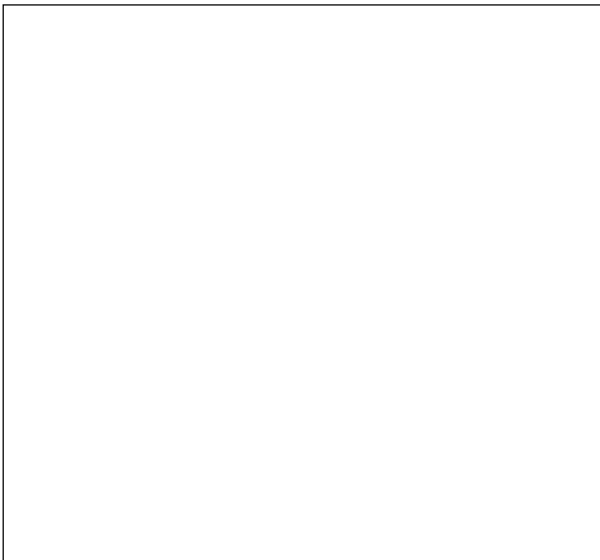
Measurement Flux: 2867.7 lm

Downward Ratio: 91%

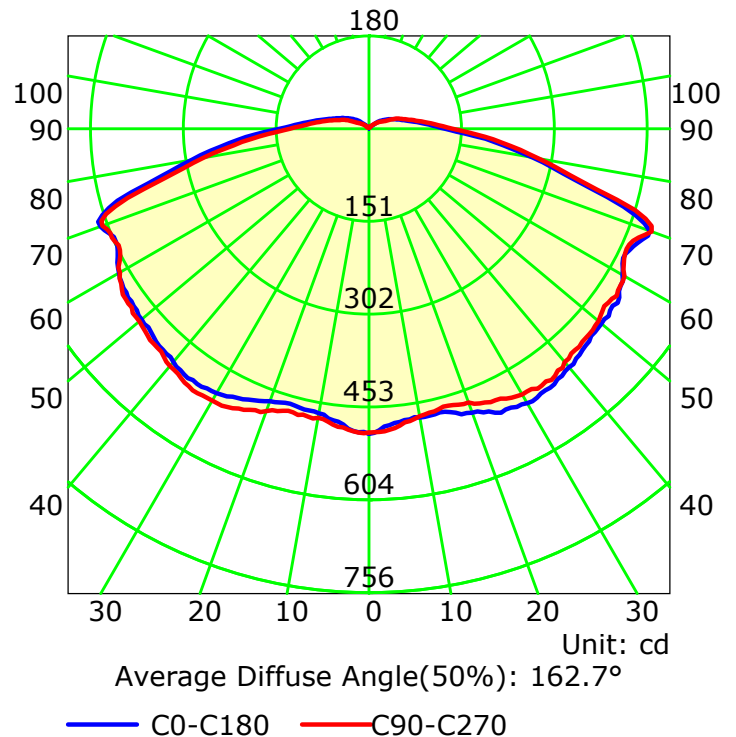
Luminaire Efficacy Rating (LER): 118.26

Max. Intensity: 530.29 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

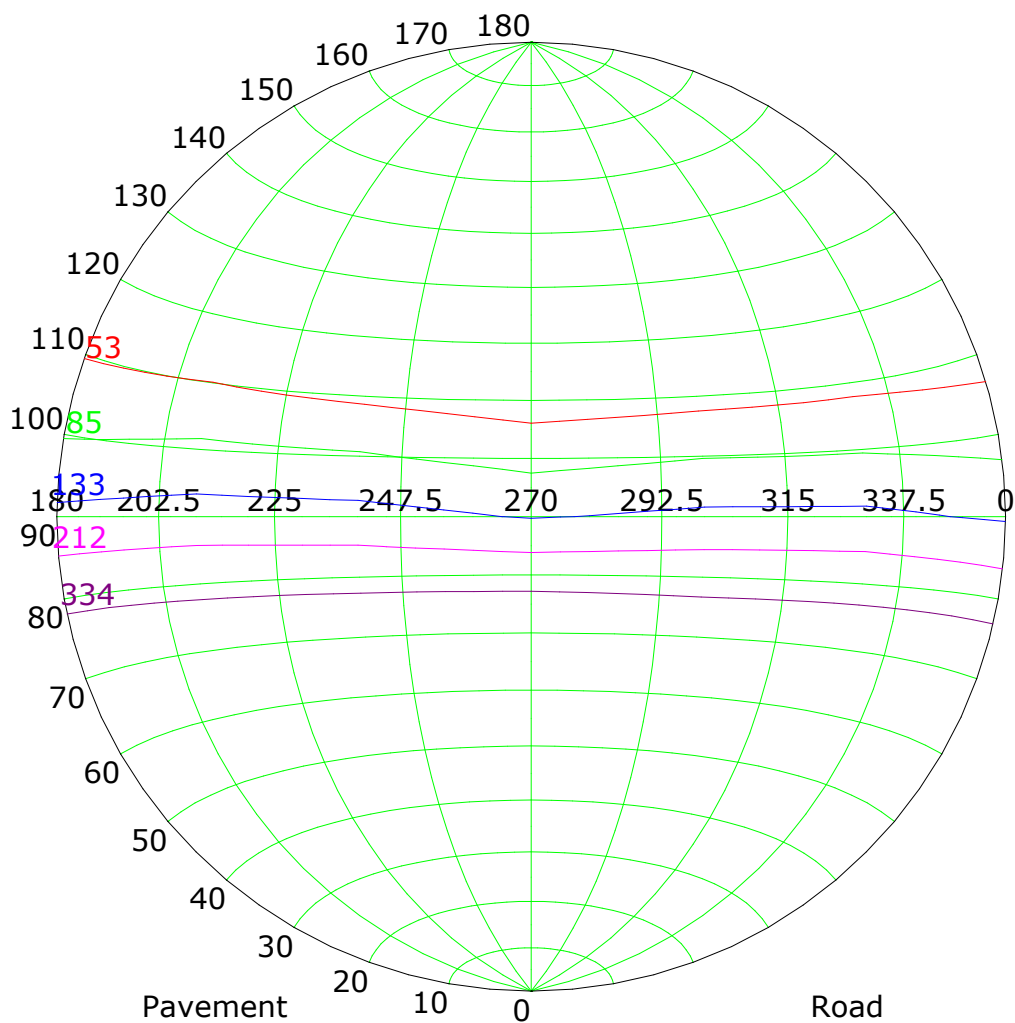
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 530 cd

( 10%): 53 cd	( 16%): 85 cd
( 25%): 133 cd	( 40%): 212 cd
( 63%): 334 cd	(100%): 530 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

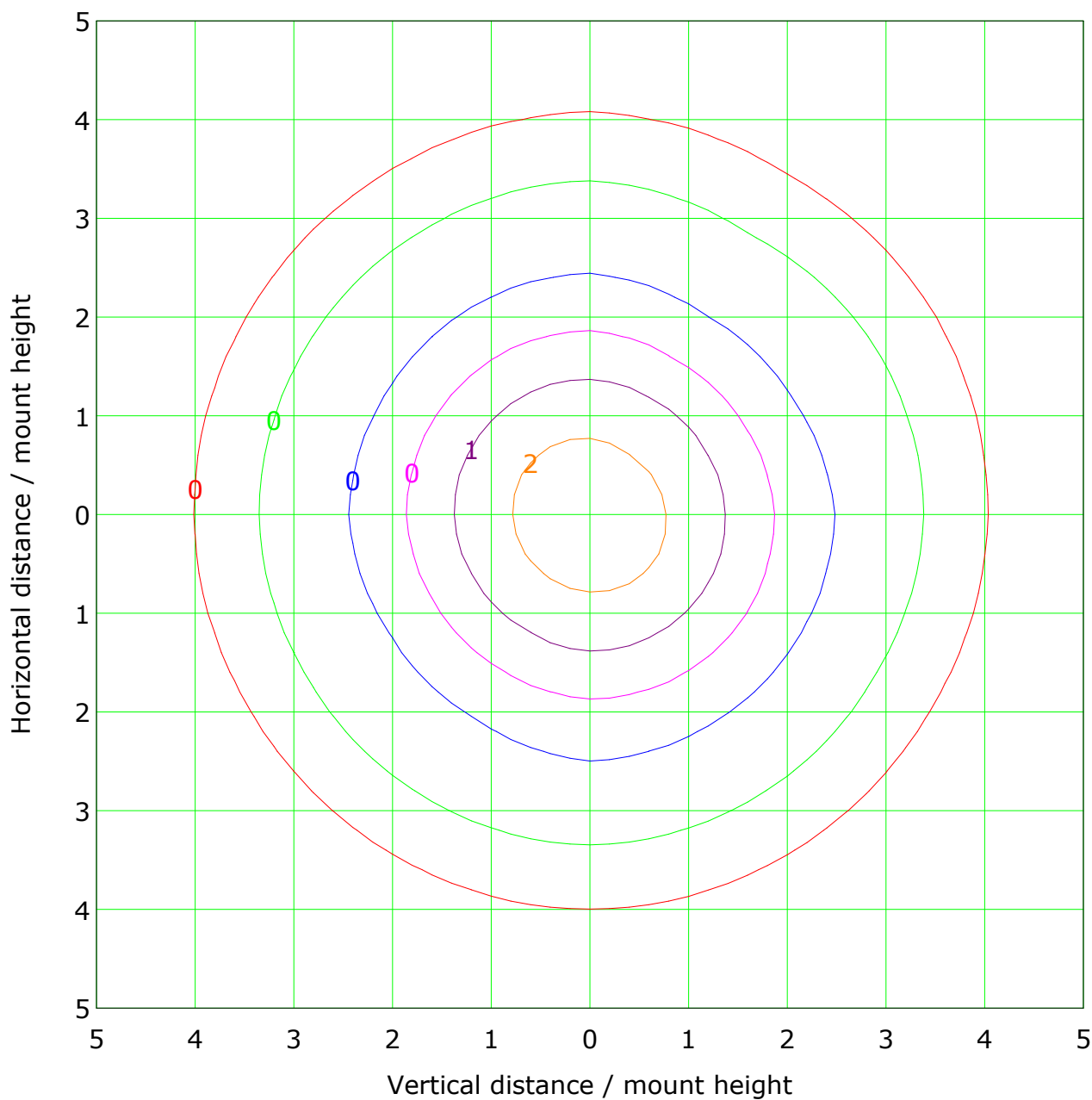
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 5.0 lx

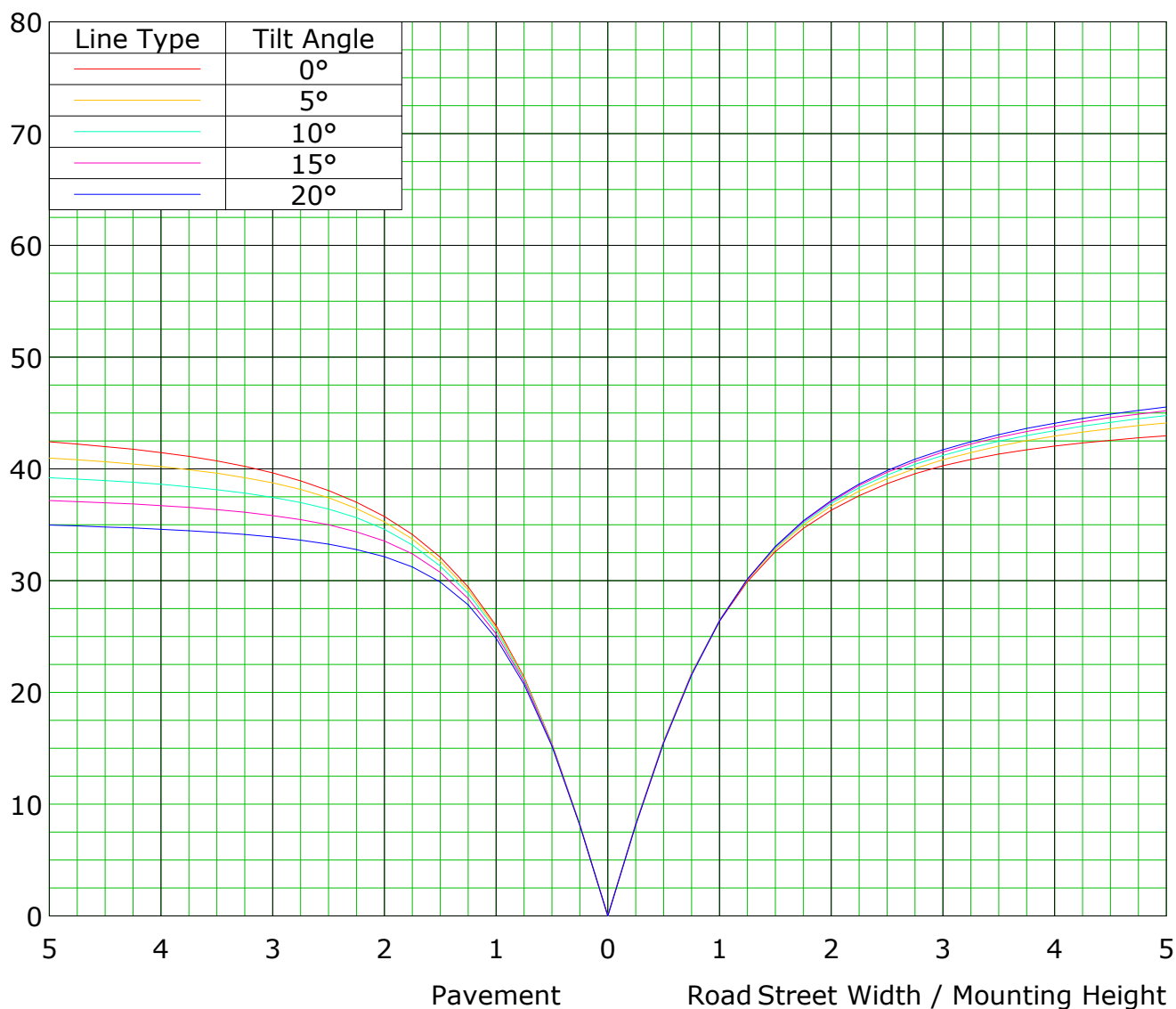
( 1%): 0.0 lx	( 2%): 0.1 lx
( 5%): 0.2 lx	( 10%): 0.5 lx
( 20%): 1.0 lx	( 50%): 2.5 lx
(100%): 5.0 lx	

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	1311	45.7
	FL ( 0°-30°)	209	7.3
	FM (30°-60°)	569	19.8
	FH (60°-80°)	422	14.7
	FVH (80°-90°)	111	3.9
	BACK LIGHT	1301	45.4
	BL ( 0°-30°)	204	7.1
	BM (30°-60°)	559	19.5
	BH (60°-80°)	420	14.7
	BVH (80°-90°)	118	4.1
	UP LIGHT	256	8.9
	UL (90°-100°)	121	4.2
	UH (100°-180°)	135	4.7
	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	494.9	0.5	0.5	0.02	0.02
1.0-2.0	494.3	1.4	1.9	0.05	0.07
2.0-3.0	492.9	2.4	4.3	0.08	0.15
3.0-4.0	491.0	3.3	7.5	0.11	0.26
4.0-5.0	488.9	4.2	11.7	0.15	0.41
5.0-6.0	486.4	5.1	16.9	0.18	0.59
6.0-7.0	484.1	6.0	22.9	0.21	0.80
7.0-8.0	482.1	6.9	29.8	0.24	1.04
8.0-9.0	480.2	7.8	37.5	0.27	1.31
9.0-10.0	478.8	8.7	46.2	0.30	1.61
10.0-11.0	478.3	9.6	55.8	0.33	1.94
11.0-12.0	478.6	10.5	66.2	0.36	2.31
12.0-13.0	479.4	11.4	77.6	0.40	2.71
13.0-14.0	480.4	12.3	89.9	0.43	3.14
14.0-15.0	481.9	13.2	103.1	0.46	3.60
15.0-16.0	483.0	14.2	117.3	0.49	4.09
16.0-17.0	483.8	15.1	132.4	0.53	4.62
17.0-18.0	485.4	16.0	148.4	0.56	5.17
18.0-19.0	486.6	16.9	165.3	0.59	5.76
19.0-20.0	487.7	17.9	183.2	0.62	6.39
20.0-21.0	489.6	18.8	202.0	0.66	7.04
21.0-22.0	491.3	19.7	221.7	0.69	7.73
22.0-23.0	492.9	20.7	242.4	0.72	8.45
23.0-24.0	494.6	21.6	264.0	0.75	9.21
24.0-25.0	496.3	22.6	286.6	0.79	9.99
25.0-26.0	497.6	23.5	310.1	0.82	10.81
26.0-27.0	498.5	24.4	334.5	0.85	11.66
27.0-28.0	499.8	25.3	359.8	0.88	12.55
28.0-29.0	501.3	26.2	386.0	0.91	13.46
29.0-30.0	502.3	27.1	413.1	0.95	14.41
30.0-31.0	503.2	28.0	441.1	0.98	15.38
31.0-32.0	503.6	28.9	470.0	1.01	16.39
32.0-33.0	504.5	29.7	499.7	1.04	17.43
33.0-34.0	505.3	30.6	530.3	1.07	18.49
34.0-35.0	505.3	31.4	561.7	1.09	19.59
35.0-36.0	505.7	32.2	593.9	1.12	20.71

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	505.6	33.0	626.9	1.15	21.86
37.0-38.0	504.9	33.7	660.6	1.18	23.04
38.0-39.0	504.4	34.4	695.0	1.20	24.24
39.0-40.0	503.6	35.1	730.1	1.22	25.46
40.0-41.0	502.6	35.8	765.9	1.25	26.71
41.0-42.0	501.4	36.4	802.4	1.27	27.98
42.0-43.0	499.9	37.0	839.4	1.29	29.27
43.0-44.0	498.8	37.6	877.1	1.31	30.58
44.0-45.0	497.1	38.2	915.3	1.33	31.92
45.0-46.0	495.2	38.7	954.0	1.35	33.27
46.0-47.0	493.8	39.3	993.3	1.37	34.64
47.0-48.0	492.0	39.8	1033.1	1.39	36.02
48.0-49.0	490.3	40.3	1073.3	1.40	37.43
49.0-50.0	488.8	40.8	1114.1	1.42	38.85
50.0-51.0	486.9	41.2	1155.3	1.44	40.29
51.0-52.0	484.6	41.6	1196.9	1.45	41.74
52.0-53.0	481.7	41.9	1238.8	1.46	43.20
53.0-54.0	479.0	42.2	1281.0	1.47	44.67
54.0-55.0	476.8	42.6	1323.6	1.48	46.15
55.0-56.0	474.6	42.9	1366.5	1.50	47.65
56.0-57.0	471.7	43.1	1409.6	1.50	49.15
57.0-58.0	468.3	43.3	1452.9	1.51	50.66
58.0-59.0	465.8	43.5	1496.5	1.52	52.18
59.0-60.0	463.0	43.8	1540.2	1.53	53.71
60.0-61.0	460.3	43.9	1584.1	1.53	55.24
61.0-62.0	457.9	44.1	1628.3	1.54	56.78
62.0-63.0	454.6	44.2	1672.5	1.54	58.32
63.0-64.0	451.0	44.3	1716.7	1.54	59.86
64.0-65.0	447.4	44.3	1761.0	1.54	61.41
65.0-66.0	444.5	44.4	1805.4	1.55	62.96
66.0-67.0	443.4	44.6	1850.0	1.55	64.51
67.0-68.0	444.1	45.0	1895.0	1.57	66.08
68.0-69.0	446.0	45.5	1940.5	1.59	67.67
69.0-70.0	448.8	46.1	1986.6	1.61	69.27
70.0-71.0	450.1	46.5	2033.1	1.62	70.90
71.0-72.0	445.8	46.4	2079.5	1.62	72.51

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	434.0	45.4	2124.9	1.58	74.10
73.0-74.0	415.3	43.7	2168.5	1.52	75.62
74.0-75.0	390.4	41.3	2209.8	1.44	77.06
75.0-76.0	363.3	38.6	2248.3	1.34	78.40
76.0-77.0	339.9	36.2	2284.6	1.26	79.67
77.0-78.0	321.2	34.4	2319.0	1.20	80.86
78.0-79.0	304.4	32.7	2351.7	1.14	82.01
79.0-80.0	288.3	31.1	2382.8	1.08	83.09
80.0-81.0	273.0	29.5	2412.3	1.03	84.12
81.0-82.0	258.1	28.0	2440.3	0.98	85.10
82.0-83.0	243.3	26.5	2466.7	0.92	86.02
83.0-84.0	229.3	25.0	2491.7	0.87	86.89
84.0-85.0	216.0	23.6	2515.3	0.82	87.71
85.0-86.0	202.5	22.1	2537.4	0.77	88.48
86.0-87.0	188.6	20.6	2558.1	0.72	89.20
87.0-88.0	174.6	19.1	2577.2	0.67	89.87
88.0-89.0	161.4	17.7	2594.9	0.62	90.49
89.0-90.0	150.1	16.5	2611.4	0.57	91.06
90.0-91.0	141.0	15.5	2626.8	0.54	91.60
91.0-92.0	133.0	14.6	2641.4	0.51	92.11
92.0-93.0	125.7	13.8	2655.2	0.48	92.59
93.0-94.0	118.9	13.0	2668.2	0.45	93.04
94.0-95.0	112.6	12.3	2680.5	0.43	93.47
95.0-96.0	106.5	11.6	2692.1	0.41	93.88
96.0-97.0	100.9	11.0	2703.1	0.38	94.26
97.0-98.0	95.7	10.4	2713.5	0.36	94.62
98.0-99.0	90.7	9.8	2723.4	0.34	94.97
99.0-100.0	86.0	9.3	2732.7	0.32	95.29
100.0-101.0	81.6	8.8	2741.5	0.31	95.60
101.0-102.0	77.3	8.3	2749.8	0.29	95.89
102.0-103.0	73.2	7.8	2757.6	0.27	96.16
103.0-104.0	69.4	7.4	2765.0	0.26	96.42
104.0-105.0	65.9	7.0	2772.0	0.24	96.66
105.0-106.0	62.6	6.6	2778.6	0.23	96.89
106.0-107.0	59.4	6.2	2784.9	0.22	97.11
107.0-108.0	56.4	5.9	2790.8	0.21	97.32

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	53.5	5.6	2796.3	0.19	97.51
109.0-110.0	50.8	5.3	2801.6	0.18	97.69
110.0-111.0	48.2	5.0	2806.5	0.17	97.87
111.0-112.0	45.6	4.7	2811.2	0.16	98.03
112.0-113.0	42.9	4.3	2815.5	0.15	98.18
113.0-114.0	40.3	4.0	2819.6	0.14	98.32
114.0-115.0	37.7	3.8	2823.3	0.13	98.45
115.0-116.0	35.3	3.5	2826.8	0.12	98.57
116.0-117.0	33.3	3.3	2830.1	0.11	98.69
117.0-118.0	31.3	3.0	2833.1	0.11	98.79
118.0-119.0	29.5	2.8	2836.0	0.10	98.89
119.0-120.0	27.7	2.6	2838.6	0.09	98.99
120.0-121.0	26.1	2.5	2841.1	0.09	99.07
121.0-122.0	24.4	2.3	2843.4	0.08	99.15
122.0-123.0	22.9	2.1	2845.5	0.07	99.23
123.0-124.0	21.4	2.0	2847.5	0.07	99.29
124.0-125.0	19.9	1.8	2849.3	0.06	99.36
125.0-126.0	18.6	1.7	2850.9	0.06	99.41
126.0-127.0	17.3	1.5	2852.4	0.05	99.47
127.0-128.0	16.0	1.4	2853.8	0.05	99.52
128.0-129.0	14.8	1.3	2855.1	0.04	99.56
129.0-130.0	13.5	1.1	2856.2	0.04	99.60
130.0-131.0	12.3	1.0	2857.3	0.04	99.64
131.0-132.0	11.3	0.9	2858.2	0.03	99.67
132.0-133.0	10.4	0.8	2859.0	0.03	99.70
133.0-134.0	9.5	0.8	2859.8	0.03	99.72
134.0-135.0	8.6	0.7	2860.5	0.02	99.75
135.0-136.0	7.9	0.6	2861.1	0.02	99.77
136.0-137.0	7.2	0.5	2861.6	0.02	99.79
137.0-138.0	6.6	0.5	2862.1	0.02	99.80
138.0-139.0	6.0	0.4	2862.5	0.02	99.82
139.0-140.0	5.4	0.4	2862.9	0.01	99.83
140.0-141.0	5.0	0.3	2863.3	0.01	99.85
141.0-142.0	4.6	0.3	2863.6	0.01	99.86
142.0-143.0	4.3	0.3	2863.9	0.01	99.87
143.0-144.0	4.1	0.3	2864.1	0.01	99.88

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	3.9	0.2	2864.4	0.01	99.88
145.0-146.0	3.7	0.2	2864.6	0.01	99.89
146.0-147.0	3.6	0.2	2864.8	0.01	99.90
147.0-148.0	3.5	0.2	2865.0	0.01	99.91
148.0-149.0	3.4	0.2	2865.2	0.01	99.91
149.0-150.0	3.3	0.2	2865.4	0.01	99.92
150.0-151.0	3.3	0.2	2865.6	0.01	99.93
151.0-152.0	3.2	0.2	2865.8	0.01	99.93
152.0-153.0	3.1	0.2	2865.9	0.01	99.94
153.0-154.0	3.1	0.1	2866.1	0.01	99.94
154.0-155.0	3.0	0.1	2866.2	0.00	99.95
155.0-156.0	2.9	0.1	2866.3	0.00	99.95
156.0-157.0	2.8	0.1	2866.5	0.00	99.96
157.0-158.0	2.8	0.1	2866.6	0.00	99.96
158.0-159.0	2.8	0.1	2866.7	0.00	99.96
159.0-160.0	2.7	0.1	2866.8	0.00	99.97
160.0-161.0	2.6	0.1	2866.9	0.00	99.97
161.0-162.0	2.6	0.1	2867.0	0.00	99.97
162.0-163.0	2.5	0.1	2867.1	0.00	99.98
163.0-164.0	2.5	0.1	2867.1	0.00	99.98
164.0-165.0	2.4	0.1	2867.2	0.00	99.98
165.0-166.0	2.4	0.1	2867.3	0.00	99.99
166.0-167.0	2.4	0.1	2867.3	0.00	99.99
167.0-168.0	2.4	0.1	2867.4	0.00	99.99
168.0-169.0	2.3	0.1	2867.4	0.00	99.99
169.0-170.0	2.3	0.0	2867.5	0.00	99.99
170.0-171.0	2.3	0.0	2867.5	0.00	99.99
171.0-172.0	2.3	0.0	2867.6	0.00	100.00
172.0-173.0	2.2	0.0	2867.6	0.00	100.00
173.0-174.0	2.2	0.0	2867.6	0.00	100.00
174.0-175.0	2.2	0.0	2867.7	0.00	100.00
175.0-176.0	2.2	0.0	2867.7	0.00	100.00
176.0-177.0	2.3	0.0	2867.7	0.00	100.00
177.0-178.0	2.3	0.0	2867.7	0.00	100.00
178.0-179.0	2.3	0.0	2867.7	0.00	100.00
179.0-180.0	2.3	0.0	2867.7	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°): 915.26 lm

%lum = 31.9%

%lamp = 31.9%

cone flux(120°): 1540.20 lm

%lum = 53.7%

%lamp = 53.7%

## 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