

Report No.:

Test Time: 2024/3/21

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: 211-01-26W-27V-3CCT-D(60%)

Lamp Catalog:

Lamp Description:

Lumens per Lamp:

Luminous Width (mm):

Voltage: 120.9 V

Power: 14.74 W

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.123 A

Power Factor: 0.991

## Photometric Results

IES Classification: Type IV

Total Rated Lamp Lumens: 1822.3 lm

Efficiency: 100%

Upward Ratio: 9%

C0r0 Intensity: 313.97 cd

Pos of Max. Intensity: H30 V38

Longitudinal Classification: Very Short

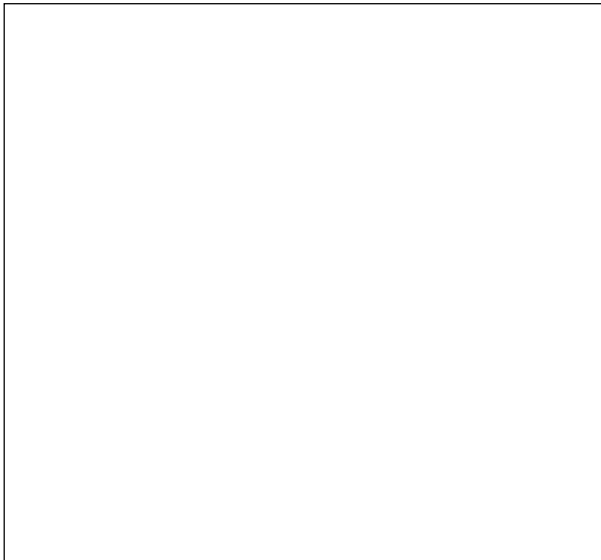
Measurement Flux: 1822.3 lm

Downward Ratio: 91%

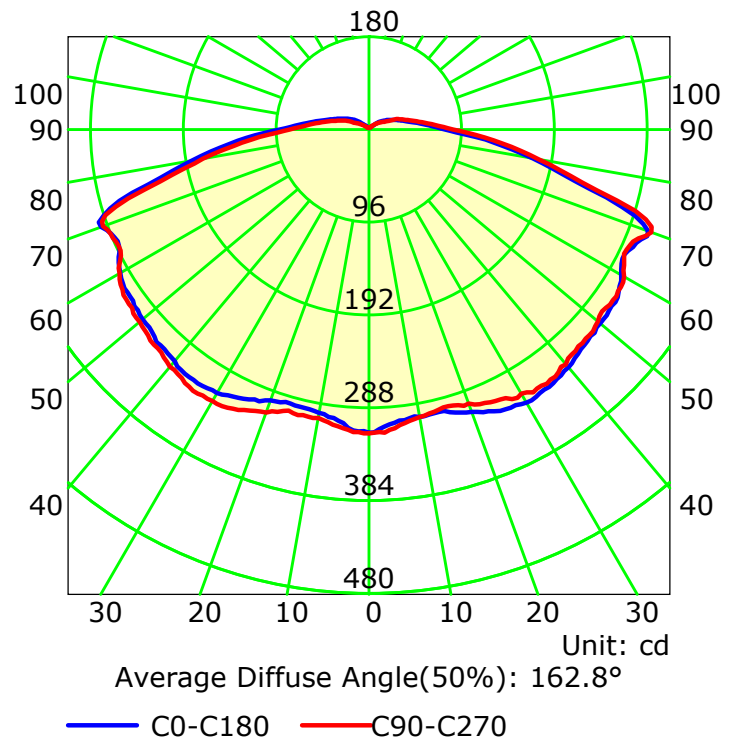
Luminaire Efficacy Rating (LER): 123.68

Max. Intensity: 335.99 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

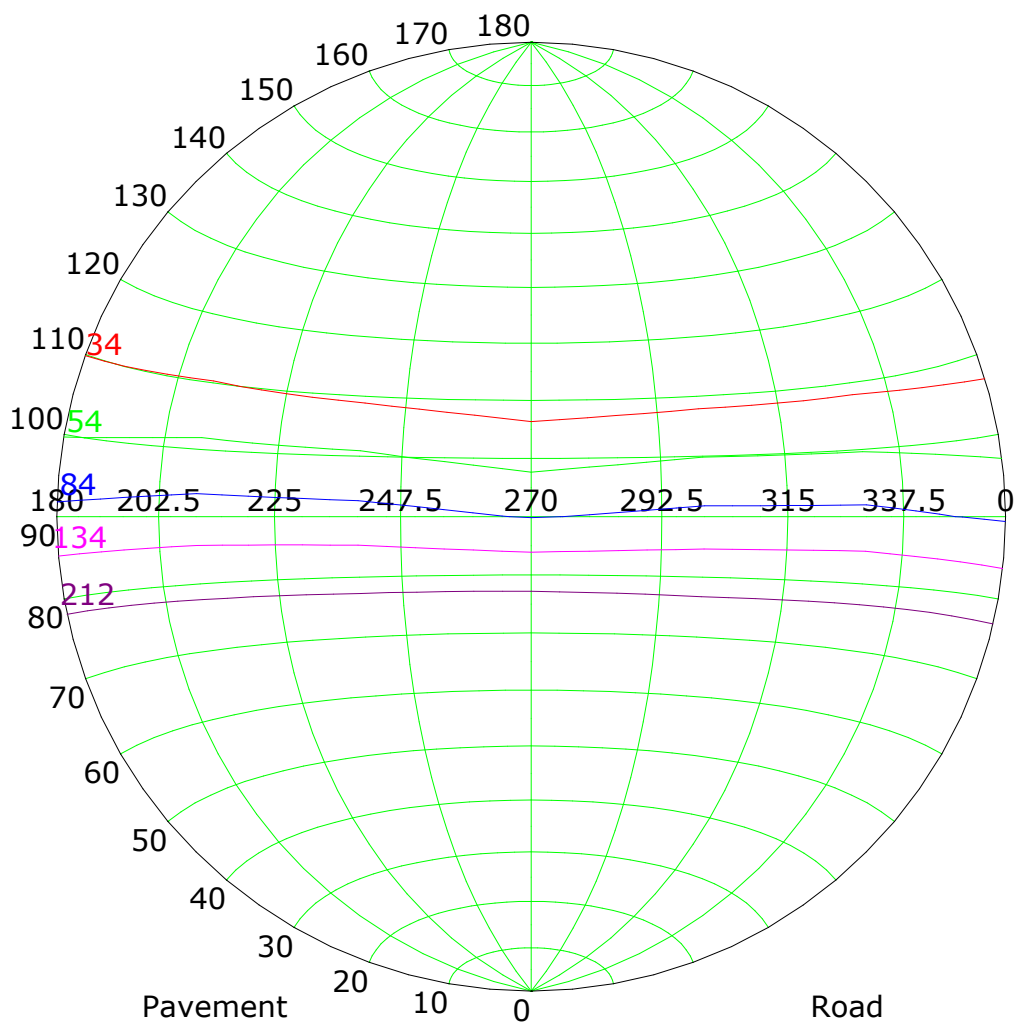
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## Isocandela (sphere)



Imax (100%): 336 cd

( 10%):	34 cd	( 16%):	54 cd
( 25%):	84 cd	( 40%):	134 cd
( 63%):	212 cd	(100%):	336 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

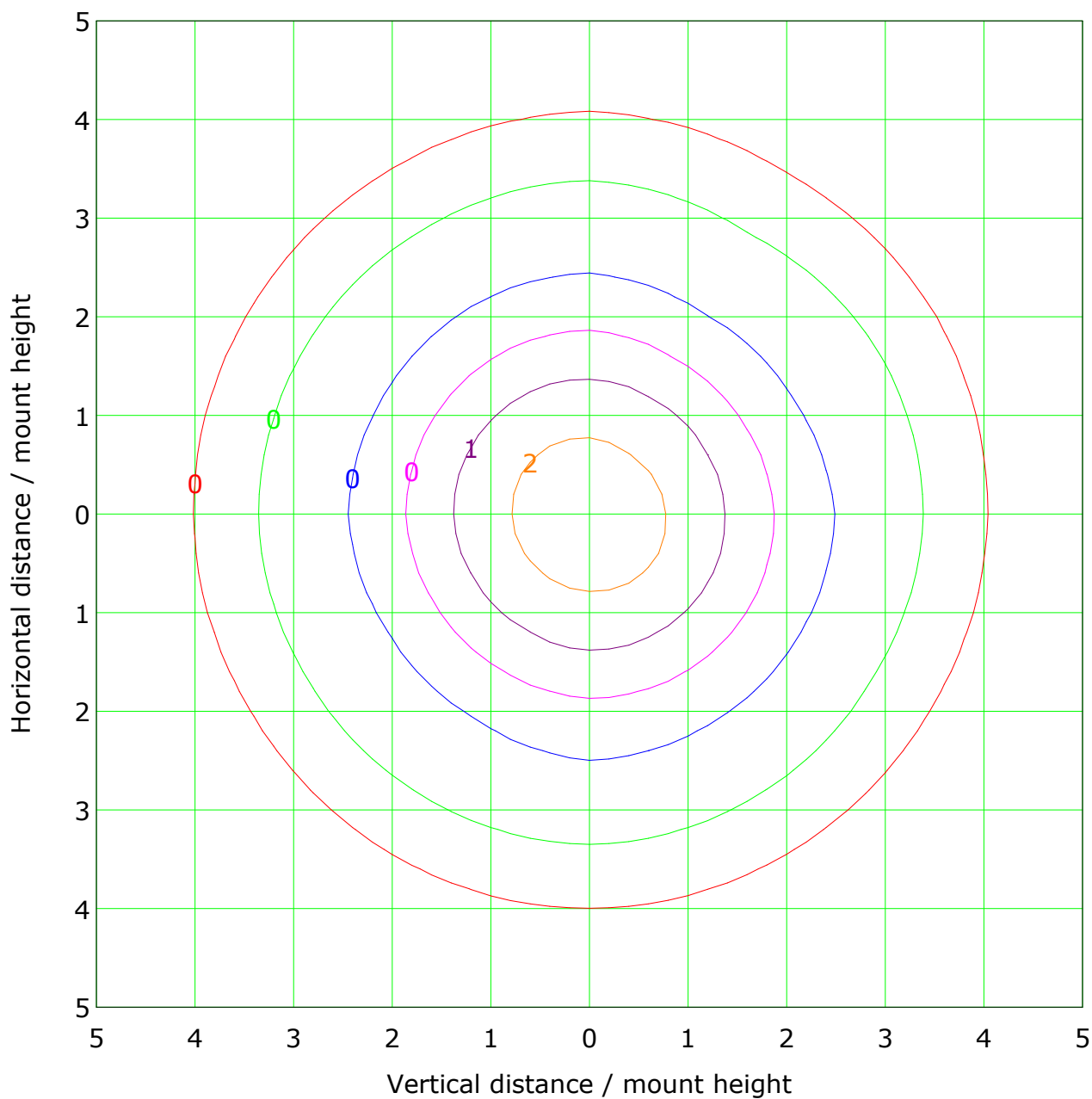
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

## IsoLux Plot

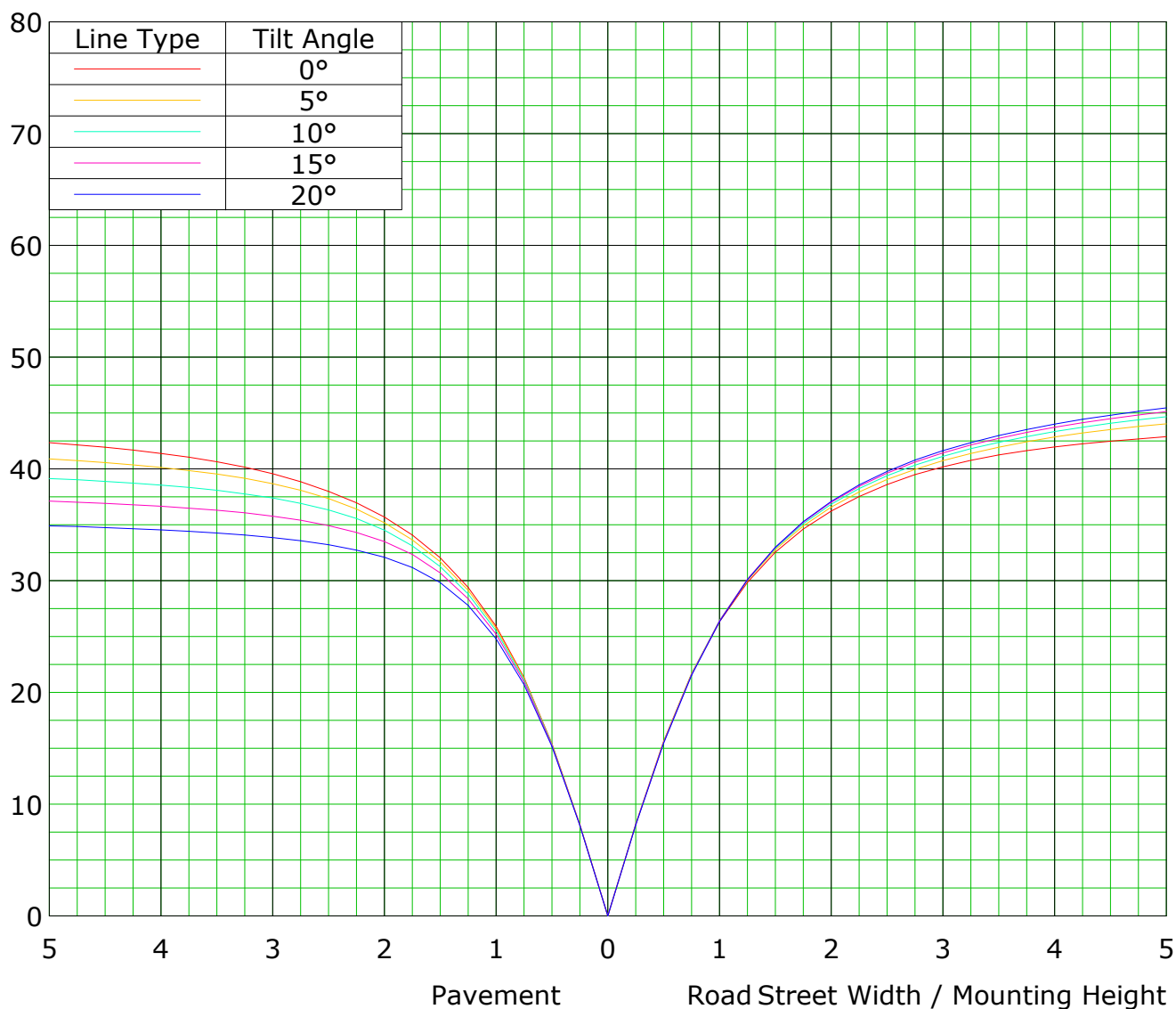


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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	831	45.6
	FL ( 0°-30°)	133	7.3
	FM (30°-60°)	360	19.8
	FH (60°-80°)	268	14.7
	FVH (80°-90°)	71	3.9
	BACK LIGHT	825	45.3
	BL ( 0°-30°)	129	7.1
	BM (30°-60°)	354	19.4
	BH (60°-80°)	267	14.6
	BVH (80°-90°)	75	4.1
	UP LIGHT	166	9.1
	UL (90°-100°)	77	4.2
	UH (100°-180°)	88	4.9
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 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	313.8	0.3	0.3	0.02	0.02
1.0-2.0	313.2	0.9	1.2	0.05	0.07
2.0-3.0	312.4	1.5	2.7	0.08	0.15
3.0-4.0	311.3	2.1	4.8	0.11	0.26
4.0-5.0	309.8	2.7	7.4	0.15	0.41
5.0-6.0	308.2	3.2	10.7	0.18	0.59
6.0-7.0	306.7	3.8	14.5	0.21	0.80
7.0-8.0	305.6	4.4	18.9	0.24	1.04
8.0-9.0	304.5	4.9	23.8	0.27	1.31
9.0-10.0	303.7	5.5	29.3	0.30	1.61
10.0-11.0	303.3	6.1	35.4	0.33	1.94
11.0-12.0	303.4	6.6	42.0	0.36	2.30
12.0-13.0	303.7	7.2	49.2	0.40	2.70
13.0-14.0	304.5	7.8	57.0	0.43	3.13
14.0-15.0	305.7	8.4	65.4	0.46	3.59
15.0-16.0	306.3	9.0	74.4	0.49	4.08
16.0-17.0	306.7	9.6	83.9	0.52	4.60
17.0-18.0	307.5	10.1	94.1	0.56	5.16
18.0-19.0	308.4	10.7	104.8	0.59	5.75
19.0-20.0	309.2	11.3	116.1	0.62	6.37
20.0-21.0	310.3	11.9	128.0	0.65	7.02
21.0-22.0	311.6	12.5	140.5	0.69	7.71
22.0-23.0	312.5	13.1	153.7	0.72	8.43
23.0-24.0	313.5	13.7	167.4	0.75	9.18
24.0-25.0	314.5	14.3	181.7	0.78	9.97
25.0-26.0	315.4	14.9	196.6	0.82	10.79
26.0-27.0	316.2	15.5	212.0	0.85	11.63
27.0-28.0	316.9	16.0	228.1	0.88	12.52
28.0-29.0	317.9	16.6	244.7	0.91	13.43
29.0-30.0	318.6	17.2	261.9	0.94	14.37
30.0-31.0	319.0	17.8	279.7	0.97	15.35
31.0-32.0	319.7	18.3	298.0	1.01	16.35
32.0-33.0	320.0	18.9	316.8	1.03	17.39
33.0-34.0	320.3	19.4	336.2	1.06	18.45
34.0-35.0	320.6	19.9	356.1	1.09	19.54
35.0-36.0	320.7	20.4	376.6	1.12	20.66

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	320.5	20.9	397.5	1.15	21.81
37.0-38.0	320.2	21.4	418.8	1.17	22.98
38.0-39.0	319.8	21.8	440.7	1.20	24.18
39.0-40.0	319.3	22.3	463.0	1.22	25.40
40.0-41.0	318.7	22.7	485.6	1.25	26.65
41.0-42.0	317.8	23.1	508.7	1.27	27.92
42.0-43.0	317.1	23.5	532.2	1.29	29.21
43.0-44.0	316.1	23.9	556.1	1.31	30.52
44.0-45.0	315.3	24.2	580.3	1.33	31.84
45.0-46.0	314.3	24.6	604.9	1.35	33.19
46.0-47.0	313.2	24.9	629.8	1.37	34.56
47.0-48.0	312.2	25.2	655.1	1.39	35.95
48.0-49.0	311.1	25.6	680.6	1.40	37.35
49.0-50.0	309.9	25.8	706.5	1.42	38.77
50.0-51.0	308.5	26.1	732.6	1.43	40.20
51.0-52.0	307.1	26.4	758.9	1.45	41.65
52.0-53.0	305.5	26.6	785.5	1.46	43.10
53.0-54.0	303.8	26.8	812.3	1.47	44.57
54.0-55.0	302.2	27.0	839.3	1.48	46.05
55.0-56.0	300.8	27.2	866.4	1.49	47.55
56.0-57.0	299.0	27.3	893.8	1.50	49.05
57.0-58.0	297.0	27.5	921.2	1.51	50.55
58.0-59.0	295.4	27.6	948.9	1.52	52.07
59.0-60.0	293.9	27.8	976.6	1.52	53.59
60.0-61.0	292.3	27.9	1004.5	1.53	55.12
61.0-62.0	290.5	28.0	1032.5	1.54	56.66
62.0-63.0	288.4	28.1	1060.6	1.54	58.20
63.0-64.0	285.9	28.1	1088.7	1.54	59.74
64.0-65.0	283.8	28.1	1116.7	1.54	61.28
65.0-66.0	282.3	28.2	1144.9	1.55	62.83
66.0-67.0	281.5	28.3	1173.2	1.55	64.38
67.0-68.0	281.6	28.5	1201.8	1.57	65.95
68.0-69.0	282.7	28.8	1230.6	1.58	67.53
69.0-70.0	284.7	29.2	1259.8	1.60	69.13
70.0-71.0	285.5	29.5	1289.4	1.62	70.75
71.0-72.0	282.6	29.4	1318.7	1.61	72.37

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	275.1	28.8	1347.5	1.58	73.94
73.0-74.0	263.5	27.7	1375.2	1.52	75.46
74.0-75.0	247.7	26.2	1401.4	1.44	76.90
75.0-76.0	230.4	24.5	1425.9	1.34	78.24
76.0-77.0	215.8	23.0	1448.9	1.26	79.51
77.0-78.0	203.9	21.8	1470.7	1.20	80.70
78.0-79.0	193.2	20.8	1491.5	1.14	81.84
79.0-80.0	183.1	19.7	1511.2	1.08	82.93
80.0-81.0	173.4	18.8	1530.0	1.03	83.96
81.0-82.0	163.9	17.8	1547.7	0.98	84.93
82.0-83.0	154.6	16.8	1564.5	0.92	85.85
83.0-84.0	145.8	15.9	1580.4	0.87	86.72
84.0-85.0	137.3	15.0	1595.4	0.82	87.55
85.0-86.0	128.8	14.1	1609.5	0.77	88.32
86.0-87.0	119.9	13.1	1622.6	0.72	89.04
87.0-88.0	111.0	12.2	1634.8	0.67	89.71
88.0-89.0	102.6	11.2	1646.0	0.62	90.33
89.0-90.0	95.6	10.5	1656.5	0.58	90.90
90.0-91.0	89.8	9.8	1666.4	0.54	91.44
91.0-92.0	84.8	9.3	1675.7	0.51	91.95
92.0-93.0	80.1	8.8	1684.4	0.48	92.43
93.0-94.0	75.8	8.3	1692.7	0.46	92.89
94.0-95.0	71.8	7.8	1700.6	0.43	93.32
95.0-96.0	68.0	7.4	1708.0	0.41	93.73
96.0-97.0	64.5	7.0	1715.0	0.39	94.11
97.0-98.0	61.2	6.7	1721.7	0.36	94.48
98.0-99.0	58.0	6.3	1728.0	0.35	94.82
99.0-100.0	55.1	6.0	1733.9	0.33	95.15
100.0-101.0	52.3	5.6	1739.5	0.31	95.46
101.0-102.0	49.5	5.3	1744.9	0.29	95.75
102.0-103.0	46.9	5.0	1749.9	0.28	96.02
103.0-104.0	44.6	4.8	1754.6	0.26	96.29
104.0-105.0	42.3	4.5	1759.1	0.25	96.53
105.0-106.0	40.2	4.2	1763.4	0.23	96.76
106.0-107.0	38.2	4.0	1767.4	0.22	96.99
107.0-108.0	36.3	3.8	1771.2	0.21	97.19

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	34.5	3.6	1774.8	0.20	97.39
109.0-110.0	32.7	3.4	1778.2	0.19	97.58
110.0-111.0	31.1	3.2	1781.4	0.18	97.75
111.0-112.0	29.4	3.0	1784.4	0.16	97.92
112.0-113.0	27.7	2.8	1787.2	0.15	98.07
113.0-114.0	26.1	2.6	1789.8	0.14	98.21
114.0-115.0	24.4	2.4	1792.2	0.13	98.35
115.0-116.0	22.9	2.3	1794.5	0.12	98.47
116.0-117.0	21.7	2.1	1796.6	0.12	98.59
117.0-118.0	20.4	2.0	1798.6	0.11	98.70
118.0-119.0	19.3	1.9	1800.5	0.10	98.80
119.0-120.0	18.1	1.7	1802.2	0.09	98.89
120.0-121.0	17.0	1.6	1803.8	0.09	98.98
121.0-122.0	16.0	1.5	1805.3	0.08	99.06
122.0-123.0	15.0	1.4	1806.7	0.08	99.14
123.0-124.0	14.1	1.3	1808.0	0.07	99.21
124.0-125.0	13.1	1.2	1809.2	0.07	99.28
125.0-126.0	12.3	1.1	1810.3	0.06	99.34
126.0-127.0	11.5	1.0	1811.3	0.06	99.39
127.0-128.0	10.7	0.9	1812.2	0.05	99.44
128.0-129.0	9.9	0.8	1813.0	0.05	99.49
129.0-130.0	9.1	0.8	1813.8	0.04	99.53
130.0-131.0	8.4	0.7	1814.5	0.04	99.57
131.0-132.0	7.7	0.6	1815.1	0.03	99.61
132.0-133.0	7.1	0.6	1815.7	0.03	99.64
133.0-134.0	6.5	0.5	1816.2	0.03	99.67
134.0-135.0	6.0	0.5	1816.7	0.03	99.69
135.0-136.0	5.6	0.4	1817.1	0.02	99.71
136.0-137.0	5.1	0.4	1817.5	0.02	99.74
137.0-138.0	4.7	0.3	1817.9	0.02	99.75
138.0-139.0	4.3	0.3	1818.2	0.02	99.77
139.0-140.0	4.0	0.3	1818.5	0.02	99.79
140.0-141.0	3.7	0.3	1818.7	0.01	99.80
141.0-142.0	3.5	0.2	1819.0	0.01	99.81
142.0-143.0	3.3	0.2	1819.2	0.01	99.83
143.0-144.0	3.1	0.2	1819.4	0.01	99.84

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	3.0	0.2	1819.6	0.01	99.85
145.0-146.0	2.9	0.2	1819.8	0.01	99.86
146.0-147.0	2.8	0.2	1819.9	0.01	99.87
147.0-148.0	2.8	0.2	1820.1	0.01	99.88
148.0-149.0	2.7	0.2	1820.2	0.01	99.88
149.0-150.0	2.7	0.1	1820.4	0.01	99.89
150.0-151.0	2.6	0.1	1820.5	0.01	99.90
151.0-152.0	2.6	0.1	1820.7	0.01	99.91
152.0-153.0	2.5	0.1	1820.8	0.01	99.92
153.0-154.0	2.5	0.1	1820.9	0.01	99.92
154.0-155.0	2.5	0.1	1821.0	0.01	99.93
155.0-156.0	2.4	0.1	1821.1	0.01	99.93
156.0-157.0	2.4	0.1	1821.3	0.01	99.94
157.0-158.0	2.4	0.1	1821.4	0.01	99.95
158.0-159.0	2.3	0.1	1821.4	0.01	99.95
159.0-160.0	2.3	0.1	1821.5	0.00	99.96
160.0-161.0	2.3	0.1	1821.6	0.00	99.96
161.0-162.0	2.2	0.1	1821.7	0.00	99.96
162.0-163.0	2.2	0.1	1821.8	0.00	99.97
163.0-164.0	2.2	0.1	1821.8	0.00	99.97
164.0-165.0	2.2	0.1	1821.9	0.00	99.98
165.0-166.0	2.2	0.1	1822.0	0.00	99.98
166.0-167.0	2.1	0.1	1822.0	0.00	99.98
167.0-168.0	2.1	0.1	1822.1	0.00	99.98
168.0-169.0	2.1	0.0	1822.1	0.00	99.99
169.0-170.0	2.1	0.0	1822.1	0.00	99.99
170.0-171.0	2.1	0.0	1822.2	0.00	99.99
171.0-172.0	2.1	0.0	1822.2	0.00	99.99
172.0-173.0	2.0	0.0	1822.2	0.00	99.99
173.0-174.0	2.0	0.0	1822.3	0.00	100.00
174.0-175.0	2.0	0.0	1822.3	0.00	100.00
175.0-176.0	2.0	0.0	1822.3	0.00	100.00
176.0-177.0	2.0	0.0	1822.3	0.00	100.00
177.0-178.0	2.1	0.0	1822.3	0.00	100.00
178.0-179.0	2.1	0.0	1822.3	0.00	100.00
179.0-180.0	2.1	0.0	1822.3	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°): 580.32 lm

%lum = 31.8%

%lamp = 31.8%

cone flux(120°): 976.64 lm

%lum = 53.6%

%lamp = 53.6%

## 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