

Report No.:

Test Time: 2023/5/15 10:45

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Luminaire Description: MGC01150W27V50KWCD-V2

Lamp Catalog: L128-ETSC3-YH00F-KS(14C15B)

Lamp Description: NISG150W43D_1200

Lumens per Lamp:

Luminous Width (mm):

Voltage: 120.5 V

Power: 130.4 W

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 1.088 A

Power Factor: 0.993

Photometric Results

IES Classification: Type II

Total Rated Lamp Lumens: 20076.4 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 7560.44 cd

Pos of Max. Intensity: H300 V5

Longitudinal Classification: Very Short

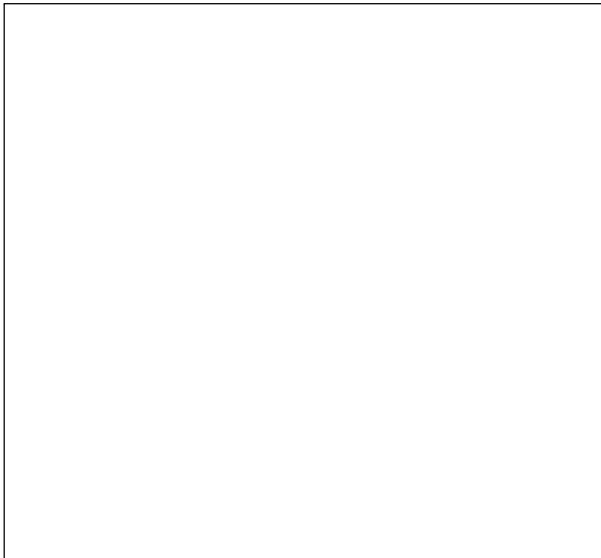
Measurement Flux: 20076.4 lm

Downward Ratio: 100%

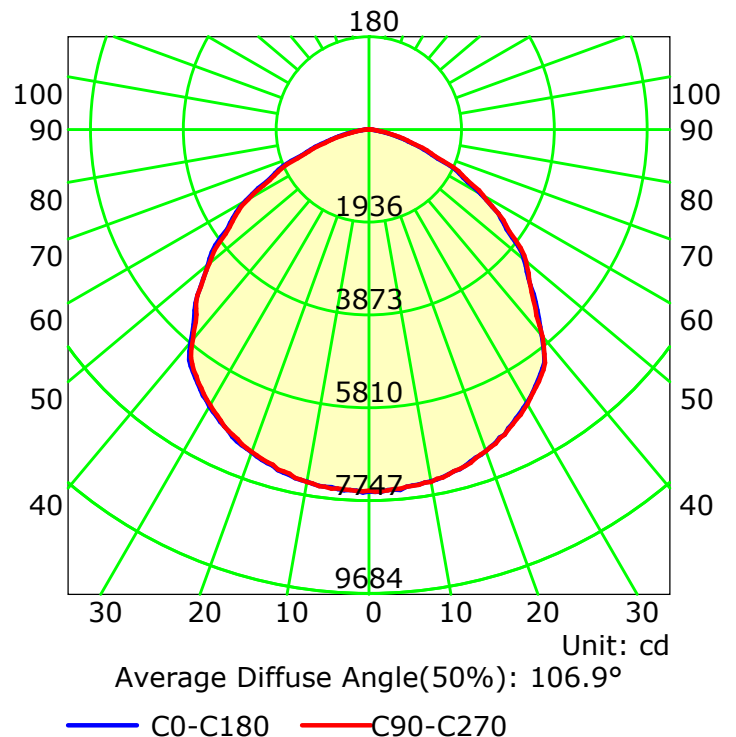
Luminaire Efficacy Rating (LER): 154.01

Max. Intensity: 7592.9 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

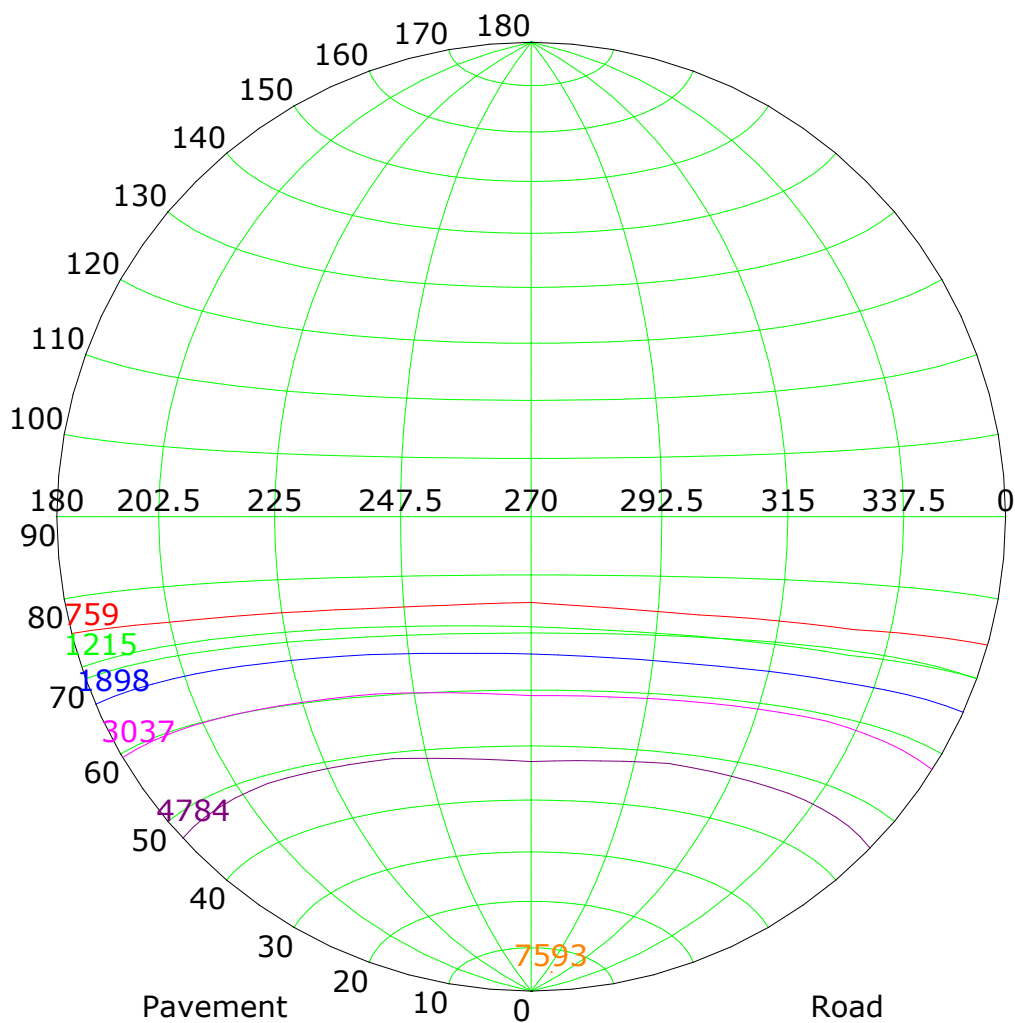
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

Isocandela (sphere)



Imax (100%): 7593 cd

(10%): 759 cd	(16%): 1215 cd
(25%): 1898 cd	(40%): 3037 cd
(63%): 4784 cd	(100%): 7593 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

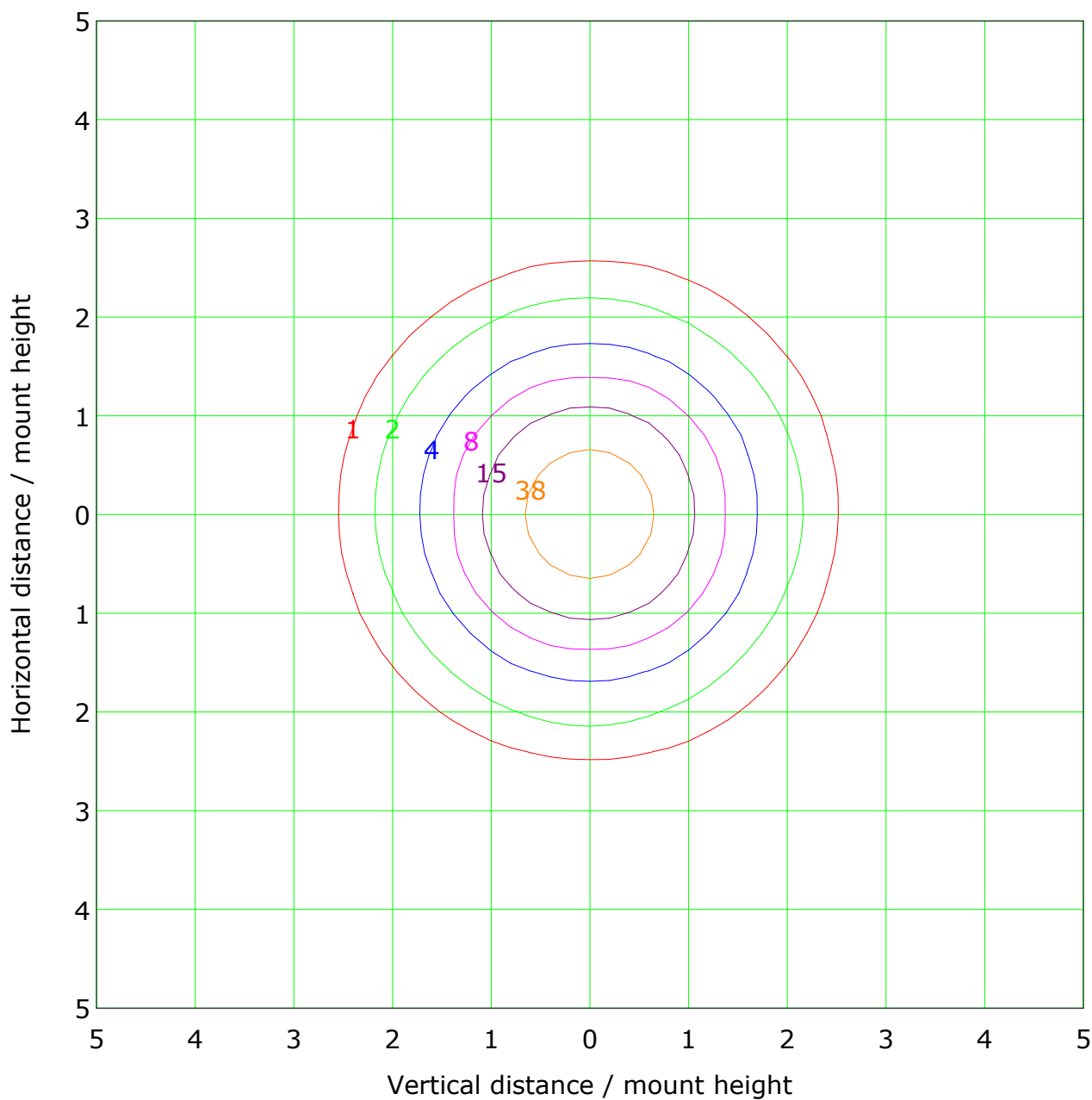
Test Device: GPM-1800B

Distance: 11.655 m [K=1.0000]

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 75.8 lx

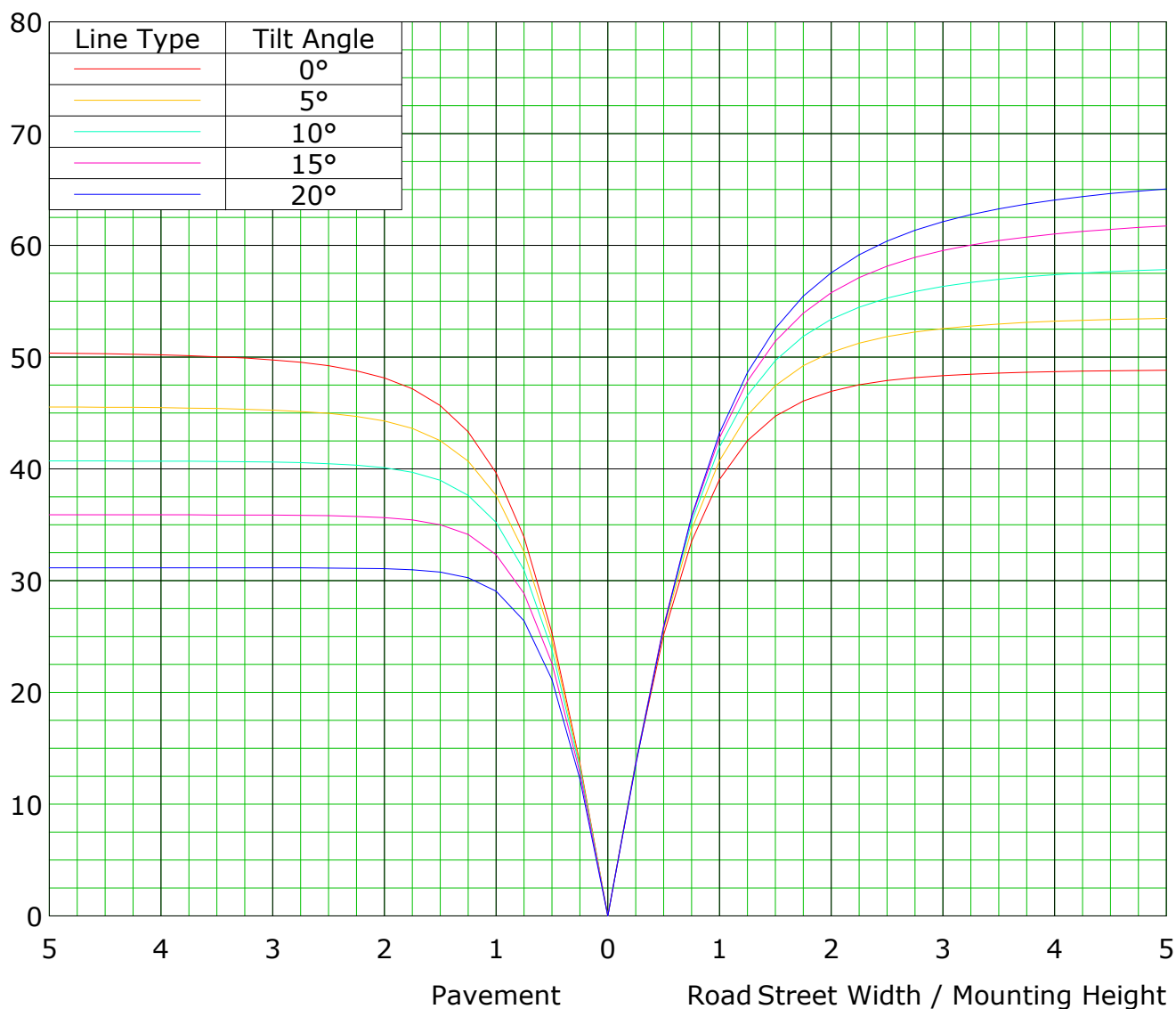
(1%): 0.8 lx	(2%): 1.5 lx
(5%): 3.8 lx	(10%): 7.6 lx
(20%): 15.2 lx	(50%): 37.9 lx
(100%): 75.8 lx	

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

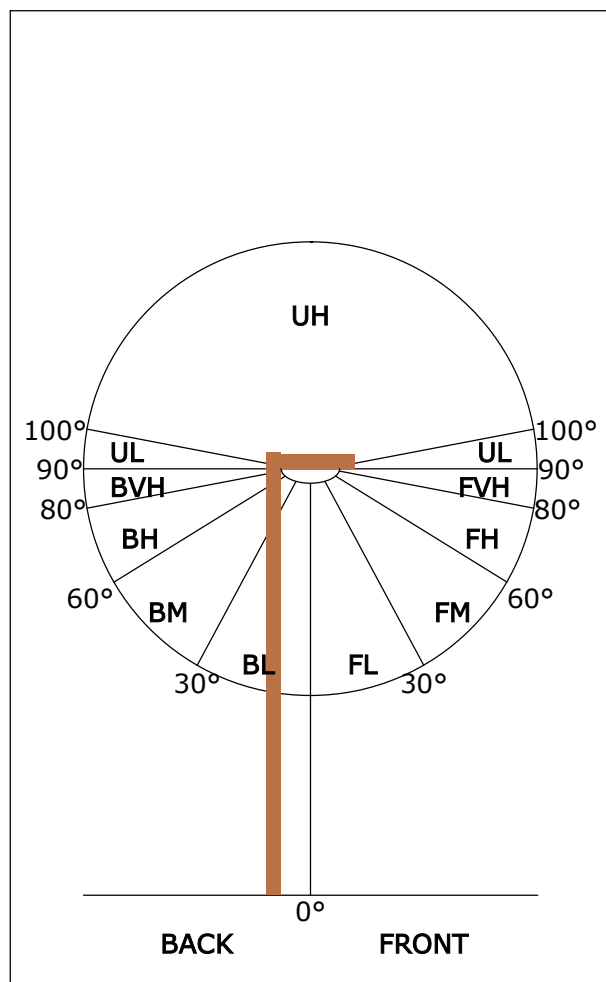
Test Device: GPM-1800B

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	9877	49.2
FL (0°-30°)	2985	14.9
FM (30°-60°)	5522	27.5
FH (60°-80°)	1318	6.6
FVH (80°-90°)	51	0.3
BACK LIGHT	10199	50.8
BL (0°-30°)	2999	14.9
BM (30°-60°)	5671	28.2
BH (60°-80°)	1463	7.3
BVH (80°-90°)	67	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)	B4 U1 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B4 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	7557.8	7.2	7.2	0.04	0.04
1.0-2.0	7556.6	21.7	28.9	0.11	0.14
2.0-3.0	7548.6	36.1	65.0	0.18	0.32
3.0-4.0	7539.4	50.5	115.5	0.25	0.58
4.0-5.0	7535.2	64.8	180.3	0.32	0.90
5.0-6.0	7527.7	79.1	259.5	0.39	1.29
6.0-7.0	7514.2	93.3	352.7	0.46	1.76
7.0-8.0	7505.5	107.4	460.2	0.54	2.29
8.0-9.0	7490.4	121.4	581.6	0.60	2.90
9.0-10.0	7472.4	135.2	716.8	0.67	3.57
10.0-11.0	7451.8	148.9	865.7	0.74	4.31
11.0-12.0	7430.3	162.4	1028.2	0.81	5.12
12.0-13.0	7407.3	175.8	1204.0	0.88	6.00
13.0-14.0	7378.1	188.9	1392.9	0.94	6.94
14.0-15.0	7353.1	201.9	1594.8	1.01	7.94
15.0-16.0	7324.9	214.7	1809.4	1.07	9.01
16.0-17.0	7289.2	227.0	2036.5	1.13	10.14
17.0-18.0	7252.9	239.2	2275.6	1.19	11.33
18.0-19.0	7218.9	251.2	2526.8	1.25	12.59
19.0-20.0	7179.9	262.8	2789.6	1.31	13.90
20.0-21.0	7138.6	274.1	3063.8	1.37	15.26
21.0-22.0	7099.9	285.4	3349.1	1.42	16.68
22.0-23.0	7051.8	295.9	3645.1	1.47	18.16
23.0-24.0	7003.8	306.3	3951.3	1.53	19.68
24.0-25.0	6955.7	316.3	4267.6	1.58	21.26
25.0-26.0	6899.8	325.7	4593.4	1.62	22.88
26.0-27.0	6845.7	335.0	4928.3	1.67	24.55
27.0-28.0	6791.3	343.9	5272.2	1.71	26.26
28.0-29.0	6732.6	352.3	5624.5	1.75	28.02
29.0-30.0	6670.9	360.2	5984.7	1.79	29.81
30.0-31.0	6608.0	367.8	6352.5	1.83	31.64
31.0-32.0	6542.5	374.9	6727.4	1.87	33.51
32.0-33.0	6472.9	381.4	7108.8	1.90	35.41
33.0-34.0	6400.2	387.4	7496.2	1.93	37.34
34.0-35.0	6327.0	393.0	7889.1	1.96	39.30
35.0-36.0	6255.7	398.4	8287.5	1.98	41.28

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	6181.6	403.2	8690.7	2.01	43.29
37.0-38.0	6093.6	406.8	9097.5	2.03	45.31
38.0-39.0	5991.6	409.0	9506.5	2.04	47.35
39.0-40.0	5882.7	410.3	9916.9	2.04	49.40
40.0-41.0	5767.2	410.7	10327.6	2.05	51.44
41.0-42.0	5642.9	410.0	10737.6	2.04	53.48
42.0-43.0	5508.7	408.1	11145.8	2.03	55.52
43.0-44.0	5361.7	404.7	11550.5	2.02	57.53
44.0-45.0	5205.1	400.1	11950.6	1.99	59.53
45.0-46.0	5045.1	394.6	12345.2	1.97	61.49
46.0-47.0	4886.1	388.7	12733.8	1.94	63.43
47.0-48.0	4743.6	383.5	13117.4	1.91	65.34
48.0-49.0	4618.9	379.4	13496.7	1.89	67.23
49.0-50.0	4489.0	374.3	13871.0	1.86	69.09
50.0-51.0	4354.5	368.5	14239.5	1.84	70.93
51.0-52.0	4218.7	362.1	14601.6	1.80	72.73
52.0-53.0	4069.6	354.1	14955.6	1.76	74.49
53.0-54.0	3920.0	345.6	15301.2	1.72	76.21
54.0-55.0	3785.5	338.0	15639.1	1.68	77.90
55.0-56.0	3656.2	330.4	15969.6	1.65	79.54
56.0-57.0	3510.5	321.0	16290.6	1.60	81.14
57.0-58.0	3337.4	308.7	16599.2	1.54	82.68
58.0-59.0	3157.9	295.3	16894.5	1.47	84.15
59.0-60.0	2989.5	282.5	17177.0	1.41	85.56
60.0-61.0	2819.8	269.1	17446.1	1.34	86.90
61.0-62.0	2632.6	253.7	17699.8	1.26	88.16
62.0-63.0	2446.5	238.0	17937.8	1.19	89.35
63.0-64.0	2283.2	224.1	18161.9	1.12	90.46
64.0-65.0	2128.4	210.7	18372.5	1.05	91.51
65.0-66.0	1963.7	196.0	18568.5	0.98	92.49
66.0-67.0	1797.6	180.8	18749.3	0.90	93.39
67.0-68.0	1651.8	167.4	18916.6	0.83	94.22
68.0-69.0	1520.8	155.2	19071.8	0.77	95.00
69.0-70.0	1374.4	141.2	19212.9	0.70	95.70
70.0-71.0	1209.3	125.0	19337.9	0.62	96.32
71.0-72.0	1055.5	109.8	19447.7	0.55	96.87

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	933.4	97.6	19545.3	0.49	97.35
73.0-74.0	828.2	87.1	19632.4	0.43	97.79
74.0-75.0	724.7	76.6	19709.0	0.38	98.17
75.0-76.0	626.5	66.5	19775.5	0.33	98.50
76.0-77.0	540.0	57.6	19833.1	0.29	98.79
77.0-78.0	462.6	49.5	19882.6	0.25	99.03
78.0-79.0	385.6	41.4	19924.1	0.21	99.24
79.0-80.0	314.3	33.9	19957.9	0.17	99.41
80.0-81.0	254.1	27.5	19985.4	0.14	99.55
81.0-82.0	203.4	22.1	20007.5	0.11	99.66
82.0-83.0	159.9	17.4	20024.9	0.09	99.74
83.0-84.0	125.7	13.7	20038.6	0.07	99.81
84.0-85.0	99.7	10.9	20049.5	0.05	99.87
85.0-86.0	78.4	8.6	20058.0	0.04	99.91
86.0-87.0	62.2	6.8	20064.8	0.03	99.94
87.0-88.0	50.3	5.5	20070.3	0.03	99.97
88.0-89.0	35.1	3.8	20074.2	0.02	99.99
89.0-90.0	16.6	1.8	20076.0	0.01	100.00
90.0-91.0	4.0	0.4	20076.4	0.00	100.00
91.0-92.0	0.0	0.0	20076.4	0.00	100.00
92.0-93.0	0.0	0.0	20076.4	0.00	100.00
93.0-94.0	0.0	0.0	20076.4	0.00	100.00
94.0-95.0	0.0	0.0	20076.4	0.00	100.00
95.0-96.0	0.0	0.0	20076.4	0.00	100.00
96.0-97.0	0.0	0.0	20076.4	0.00	100.00
97.0-98.0	0.0	0.0	20076.4	0.00	100.00
98.0-99.0	0.0	0.0	20076.4	0.00	100.00
99.0-100.0	0.0	0.0	20076.4	0.00	100.00
100.0-101.0	0.0	0.0	20076.4	0.00	100.00
101.0-102.0	0.0	0.0	20076.4	0.00	100.00
102.0-103.0	0.0	0.0	20076.4	0.00	100.00
103.0-104.0	0.0	0.0	20076.4	0.00	100.00
104.0-105.0	0.0	0.0	20076.4	0.00	100.00
105.0-106.0	0.0	0.0	20076.4	0.00	100.00
106.0-107.0	0.0	0.0	20076.4	0.00	100.00
107.0-108.0	0.0	0.0	20076.4	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	20076.4	0.00	100.00
109.0-110.0	0.0	0.0	20076.4	0.00	100.00
110.0-111.0	0.0	0.0	20076.4	0.00	100.00
111.0-112.0	0.0	0.0	20076.4	0.00	100.00
112.0-113.0	0.0	0.0	20076.4	0.00	100.00
113.0-114.0	0.0	0.0	20076.4	0.00	100.00
114.0-115.0	0.0	0.0	20076.4	0.00	100.00
115.0-116.0	0.0	0.0	20076.4	0.00	100.00
116.0-117.0	0.0	0.0	20076.4	0.00	100.00
117.0-118.0	0.0	0.0	20076.4	0.00	100.00
118.0-119.0	0.0	0.0	20076.4	0.00	100.00
119.0-120.0	0.0	0.0	20076.4	0.00	100.00
120.0-121.0	0.0	0.0	20076.4	0.00	100.00
121.0-122.0	0.0	0.0	20076.4	0.00	100.00
122.0-123.0	0.0	0.0	20076.4	0.00	100.00
123.0-124.0	0.0	0.0	20076.4	0.00	100.00
124.0-125.0	0.0	0.0	20076.4	0.00	100.00
125.0-126.0	0.0	0.0	20076.4	0.00	100.00
126.0-127.0	0.0	0.0	20076.4	0.00	100.00
127.0-128.0	0.0	0.0	20076.4	0.00	100.00
128.0-129.0	0.0	0.0	20076.4	0.00	100.00
129.0-130.0	0.0	0.0	20076.4	0.00	100.00
130.0-131.0	0.0	0.0	20076.4	0.00	100.00
131.0-132.0	0.0	0.0	20076.4	0.00	100.00
132.0-133.0	0.0	0.0	20076.4	0.00	100.00
133.0-134.0	0.0	0.0	20076.4	0.00	100.00
134.0-135.0	0.0	0.0	20076.4	0.00	100.00
135.0-136.0	0.0	0.0	20076.4	0.00	100.00
136.0-137.0	0.0	0.0	20076.4	0.00	100.00
137.0-138.0	0.0	0.0	20076.4	0.00	100.00
138.0-139.0	0.0	0.0	20076.4	0.00	100.00
139.0-140.0	0.0	0.0	20076.4	0.00	100.00
140.0-141.0	0.0	0.0	20076.4	0.00	100.00
141.0-142.0	0.0	0.0	20076.4	0.00	100.00
142.0-143.0	0.0	0.0	20076.4	0.00	100.00
143.0-144.0	0.0	0.0	20076.4	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	20076.4	0.00	100.00
145.0-146.0	0.0	0.0	20076.4	0.00	100.00
146.0-147.0	0.0	0.0	20076.4	0.00	100.00
147.0-148.0	0.0	0.0	20076.4	0.00	100.00
148.0-149.0	0.0	0.0	20076.4	0.00	100.00
149.0-150.0	0.0	0.0	20076.4	0.00	100.00
150.0-151.0	0.0	0.0	20076.4	0.00	100.00
151.0-152.0	0.0	0.0	20076.4	0.00	100.00
152.0-153.0	0.0	0.0	20076.4	0.00	100.00
153.0-154.0	0.0	0.0	20076.4	0.00	100.00
154.0-155.0	0.0	0.0	20076.4	0.00	100.00
155.0-156.0	0.0	0.0	20076.4	0.00	100.00
156.0-157.0	0.0	0.0	20076.4	0.00	100.00
157.0-158.0	0.0	0.0	20076.4	0.00	100.00
158.0-159.0	0.0	0.0	20076.4	0.00	100.00
159.0-160.0	0.0	0.0	20076.4	0.00	100.00
160.0-161.0	0.0	0.0	20076.4	0.00	100.00
161.0-162.0	0.0	0.0	20076.4	0.00	100.00
162.0-163.0	0.0	0.0	20076.4	0.00	100.00
163.0-164.0	0.0	0.0	20076.4	0.00	100.00
164.0-165.0	0.0	0.0	20076.4	0.00	100.00
165.0-166.0	0.0	0.0	20076.4	0.00	100.00
166.0-167.0	0.0	0.0	20076.4	0.00	100.00
167.0-168.0	0.0	0.0	20076.4	0.00	100.00
168.0-169.0	0.0	0.0	20076.4	0.00	100.00
169.0-170.0	0.0	0.0	20076.4	0.00	100.00
170.0-171.0	0.0	0.0	20076.4	0.00	100.00
171.0-172.0	0.0	0.0	20076.4	0.00	100.00
172.0-173.0	0.0	0.0	20076.4	0.00	100.00
173.0-174.0	0.0	0.0	20076.4	0.00	100.00
174.0-175.0	0.0	0.0	20076.4	0.00	100.00
175.0-176.0	0.0	0.0	20076.4	0.00	100.00
176.0-177.0	0.0	0.0	20076.4	0.00	100.00
177.0-178.0	0.0	0.0	20076.4	0.00	100.00
178.0-179.0	0.0	0.0	20076.4	0.00	100.00
179.0-180.0	0.0	0.0	20076.4	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°): 11950.57 lm

%lum = 59.5%

%lamp = 59.5%

cone flux(120°): 17176.98 lm

%lum = 85.6%

%lamp = 85.6%

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