

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P317227

Luminaire Tested: **GLEON-SA3A-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10691 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

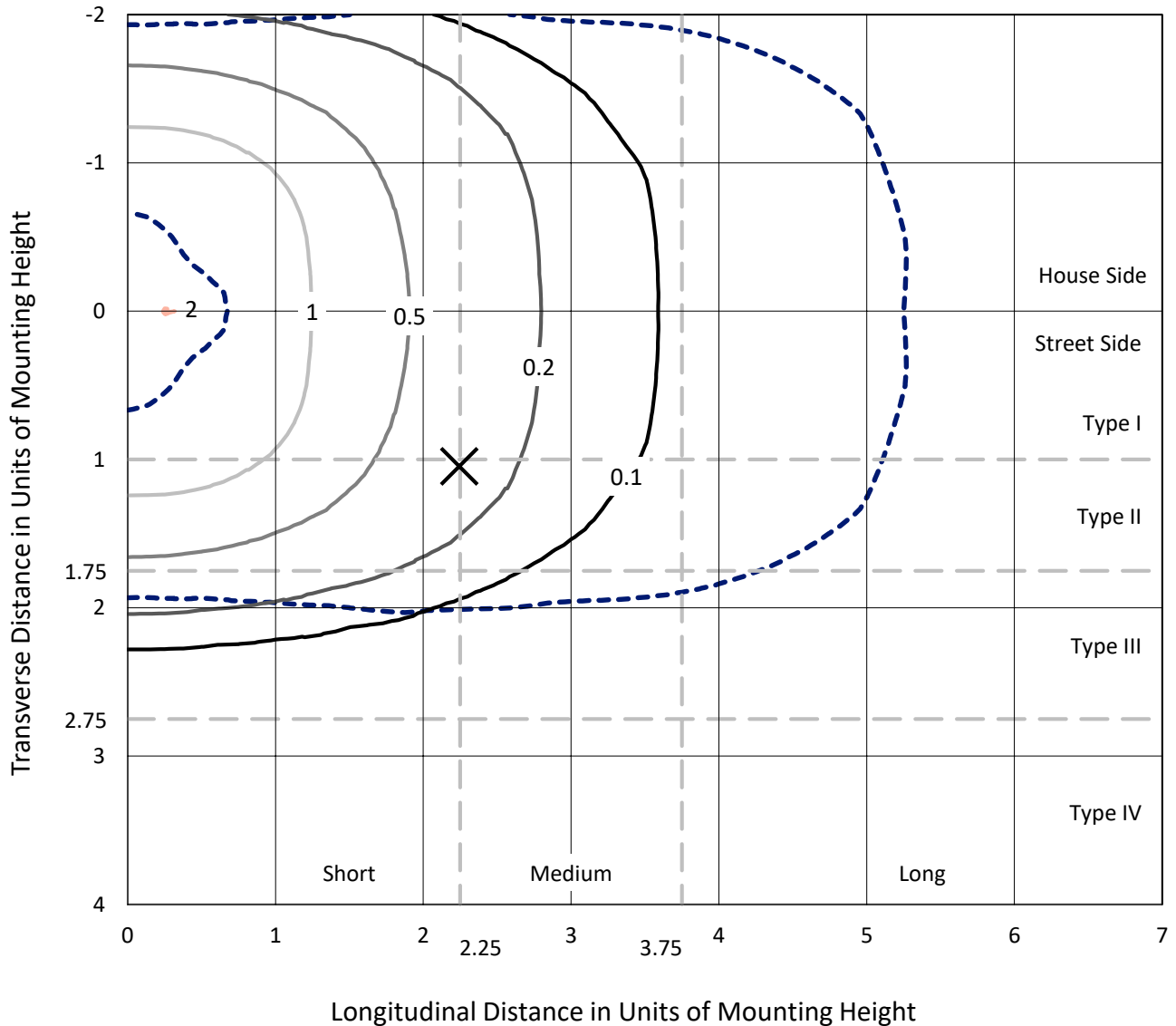
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

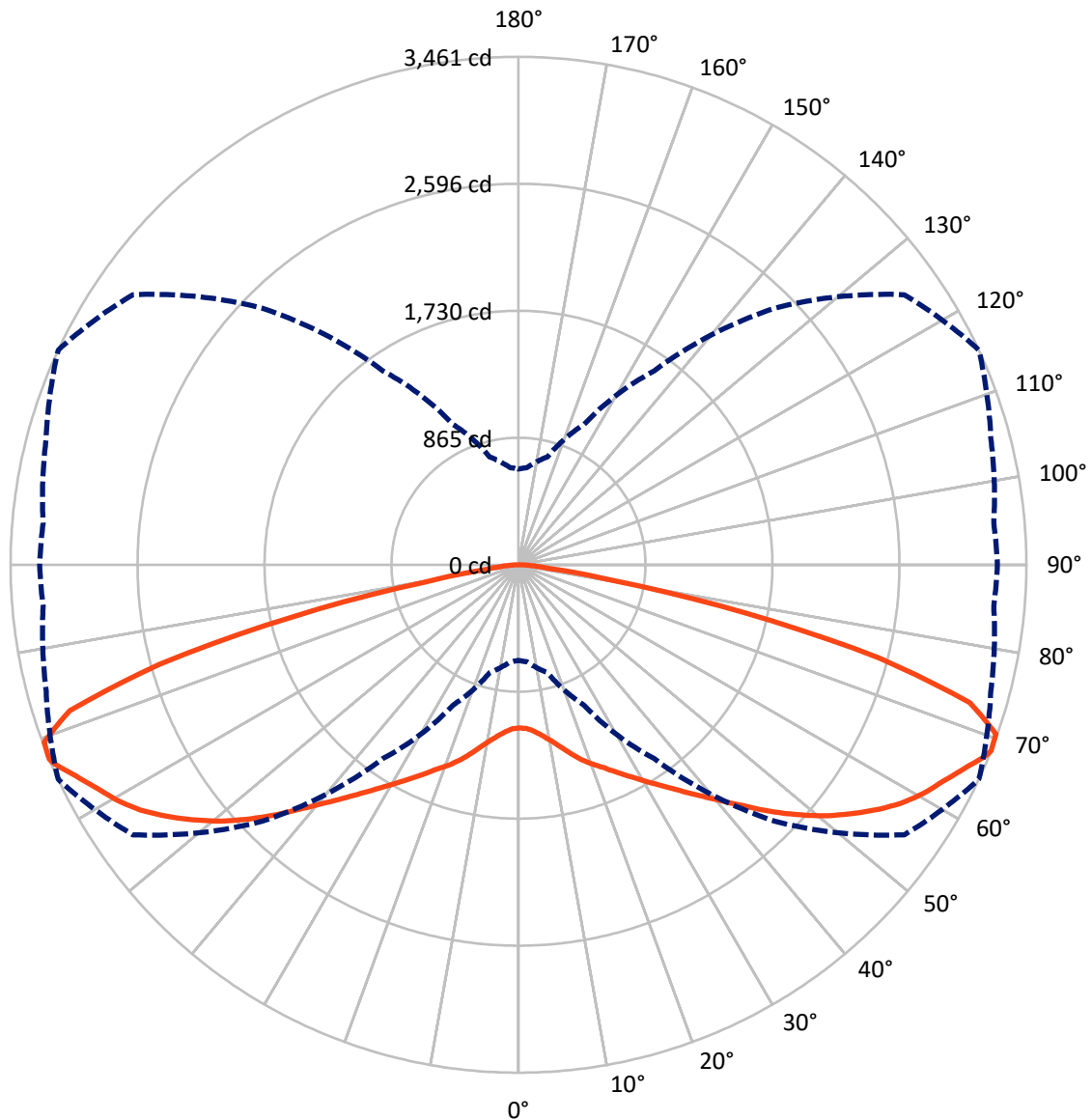
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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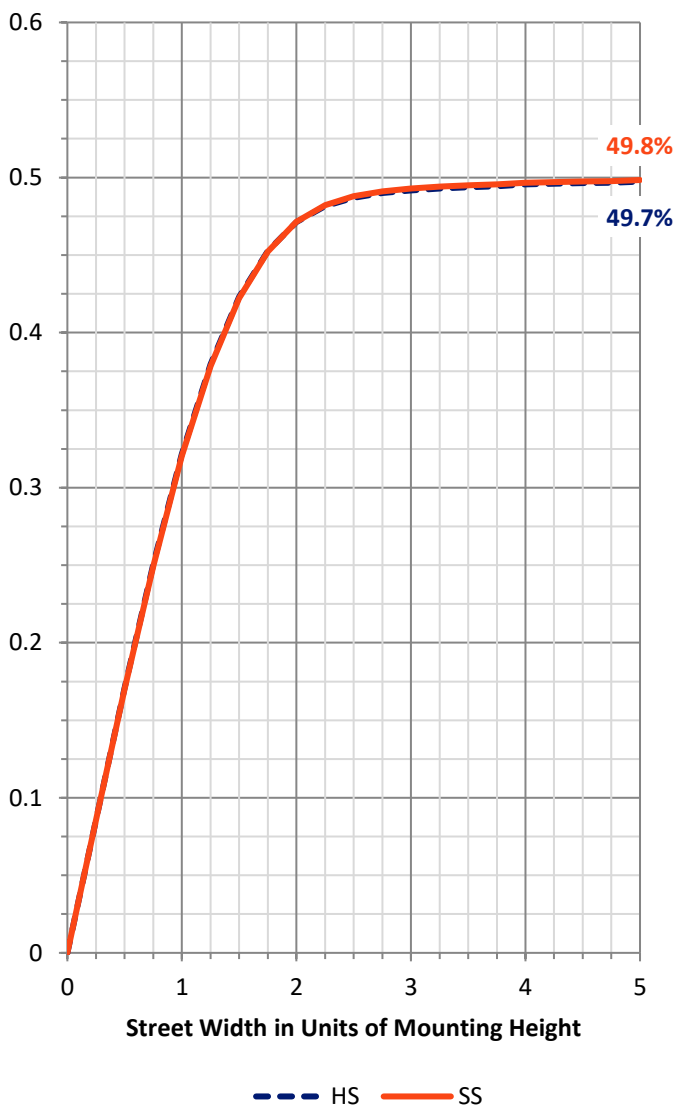
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5345.5	0.0	5345.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5345.5	0.0	5345.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10691.0	0.0	10691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.0
10°-20°	364.4	3.4
20°-30°	710.5	6.6
30°-40°	1193.6	11.2
40°-50°	1880.8	17.6
50°-60°	2515.2	23.5
60°-70°	2445.1	22.9
70°-80°	1336.6	12.5
80°-90°	135.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10691.0	100.0
0°-180°	10691.0	100.0

Coefficient of Utilization



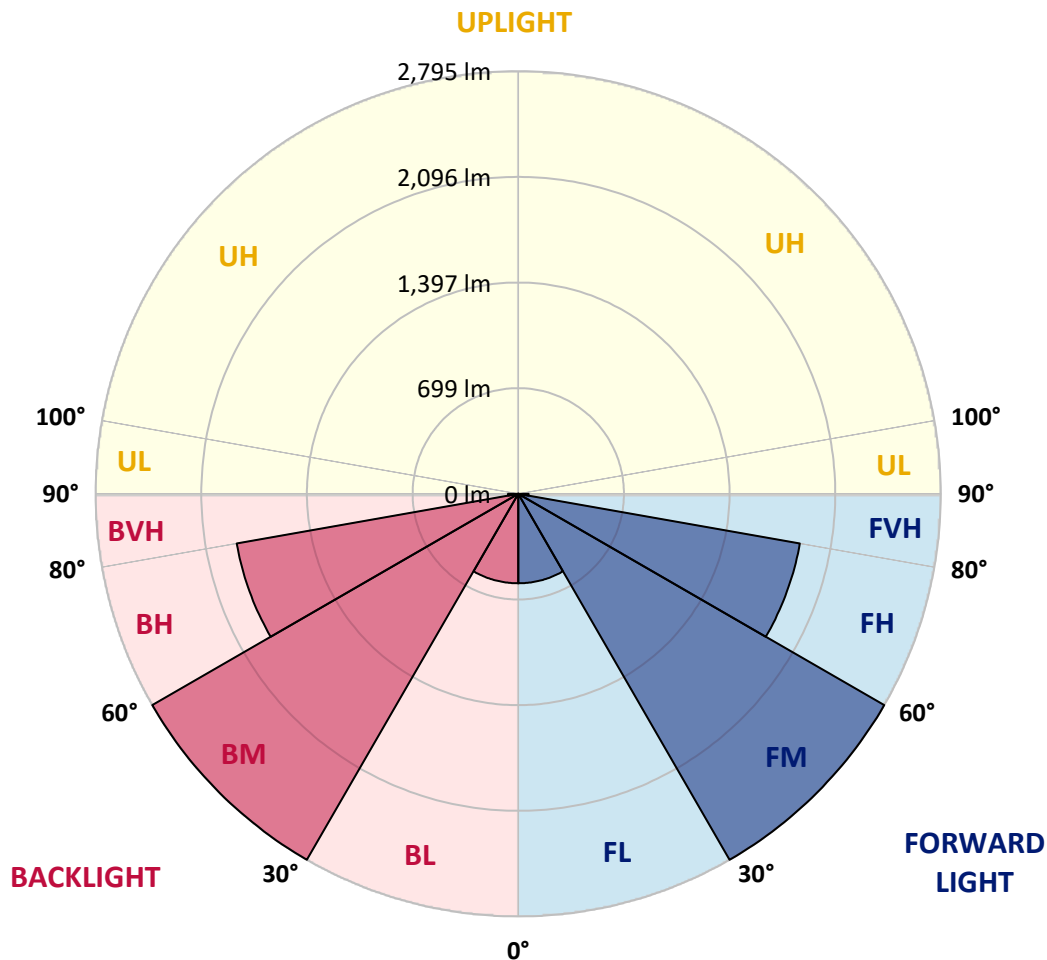
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.9	5.5			
FM (30°-60°)	2794.8	26.1			
FH (60°-80°)	1890.8	17.7			G2/5000
FVH (80°-90°)	68.0	0.6			G1/100
BL (0°-30°)	591.9	5.5	B2/1000		
BM (30°-60°)	2794.8	26.1	B3/5000		
BH (60°-80°)	1890.8	17.7	B3/2500		G3/2500
BVH (80°-90°)	68.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6	1111.6
2.5°	1103.7	1104.1	1105.9	1108.0	1109.8	1114.5	1115.6	1117.3	1118.1	1119.9	1119.9
5°	1094.0	1094.8	1099.1	1104.8	1111.3	1122.7	1131.0	1140.3	1145.0	1150.0	1149.6
7.5°	1093.0	1094.8	1100.9	1110.2	1120.9	1139.9	1157.1	1175.8	1188.3	1199.8	1199.1
10°	1104.1	1107.0	1115.6	1129.5	1145.7	1169.3	1194.8	1219.9	1241.7	1259.3	1260.0
12.5°	1120.9	1124.5	1138.1	1159.3	1183.7	1214.1	1244.2	1272.6	1302.7	1328.8	1331.0
15°	1143.2	1147.8	1168.3	1199.8	1237.1	1273.3	1305.5	1334.6	1369.4	1405.6	1409.1
17.5°	1176.1	1182.6	1209.5	1252.1	1301.2	1341.0	1374.7	1396.6	1425.6	1462.9	1469.7
20°	1226.3	1234.6	1268.6	1319.5	1379.4	1421.0	1446.8	1451.4	1465.8	1499.1	1507.0
22.5°	1291.6	1298.7	1336.7	1397.3	1464.3	1509.5	1523.1	1504.5	1503.1	1529.9	1537.5
25°	1364.3	1370.8	1414.9	1483.0	1555.0	1604.9	1604.5	1568.3	1543.2	1564.0	1571.9
27.5°	1446.1	1456.1	1498.4	1570.1	1647.2	1696.3	1693.4	1637.5	1589.8	1595.2	1602.0
30°	1540.0	1551.1	1592.3	1665.1	1742.2	1790.2	1786.6	1712.8	1641.1	1626.7	1631.8
32.5°	1656.5	1669.7	1708.8	1780.5	1848.6	1892.0	1881.6	1794.5	1702.7	1671.5	1676.2
35°	1796.6	1804.5	1845.8	1916.4	1971.6	2001.3	1979.5	1889.1	1780.9	1743.2	1743.2
37.5°	1938.6	1944.7	1990.9	2059.4	2112.8	2128.6	2085.9	1992.7	1883.0	1829.6	1830.7
40°	2074.8	2091.3	2143.3	2213.5	2266.2	2270.5	2213.9	2111.0	1996.7	1941.5	1947.9
42.5°	2217.1	2233.3	2295.3	2374.9	2421.5	2428.6	2362.3	2243.7	2125.0	2080.2	2087.4
45°	2344.0	2356.9	2428.6	2521.1	2579.2	2597.8	2519.3	2395.6	2263.7	2220.0	2221.8
47.5°	2432.6	2449.4	2528.3	2637.3	2721.9	2750.5	2673.5	2543.7	2400.3	2347.3	2351.9
50°	2512.9	2521.8	2601.8	2720.8	2828.3	2887.5	2821.5	2690.0	2538.3	2482.0	2487.1
52.5°	2557.7	2569.1	2646.6	2770.6	2897.9	2993.2	2953.1	2821.5	2671.7	2616.8	2622.9
55°	2526.5	2535.1	2627.9	2781.7	2940.9	3058.5	3064.6	2950.2	2802.5	2754.5	2771.7
57.5°	2384.5	2395.3	2508.6	2710.0	2946.3	3102.5	3148.4	3069.6	2924.7	2885.7	2895.7
60°	2162.6	2169.5	2290.3	2516.8	2841.6	3120.8	3201.8	3167.1	3044.5	3005.4	3019.0
62.5°	1767.3	1777.3	1921.8	2225.4	2620.4	3066.7	3253.5	3247.7	3156.0	3120.1	3132.3
65°	1208.0	1225.6	1385.5	1769.4	2279.5	2901.1	3300.4	3341.6	3254.5	3209.4	3225.5
67.5°	729.5	742.4	858.2	1168.3	1744.3	2567.0	3252.0	3448.5	3324.1	3251.3	3264.6
68°	652.1	663.9	760.7	1054.3	1613.5	2472.7	3207.9	3460.7	3331.6	3250.6	3262.4
70°	394.0	401.8	466.7	651.7	1075.8	1961.5	2907.2	3450.6	3379.6	3260.6	3267.4
72.5°	256.7	259.2	269.9	334.5	549.5	1096.9	2182.0	3215.5	3451.7	3319.1	3318.0
75°	213.3	211.9	212.9	220.5	271.0	481.1	1275.1	2540.1	3290.4	3226.9	3204.4
77.5°	180.3	179.2	178.9	179.2	181.4	232.3	553.5	1582.3	2517.9	2854.5	2874.6
80°	145.9	144.5	149.1	147.0	140.5	144.5	231.9	658.1	1186.9	1276.9	1196.6
82.5°	106.1	100.7	120.8	115.1	109.7	101.8	128.0	212.6	283.2	194.3	136.6
85°	81.7	76.0	91.8	88.2	75.3	52.0	76.0	104.0	114.7	65.6	51.6
87.5°	33.3	35.1	66.3	52.3	44.1	25.1	31.2	41.6	55.9	28.0	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)