

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: P316916

Luminaire Tested: **GLEON-SA2B-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8866 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

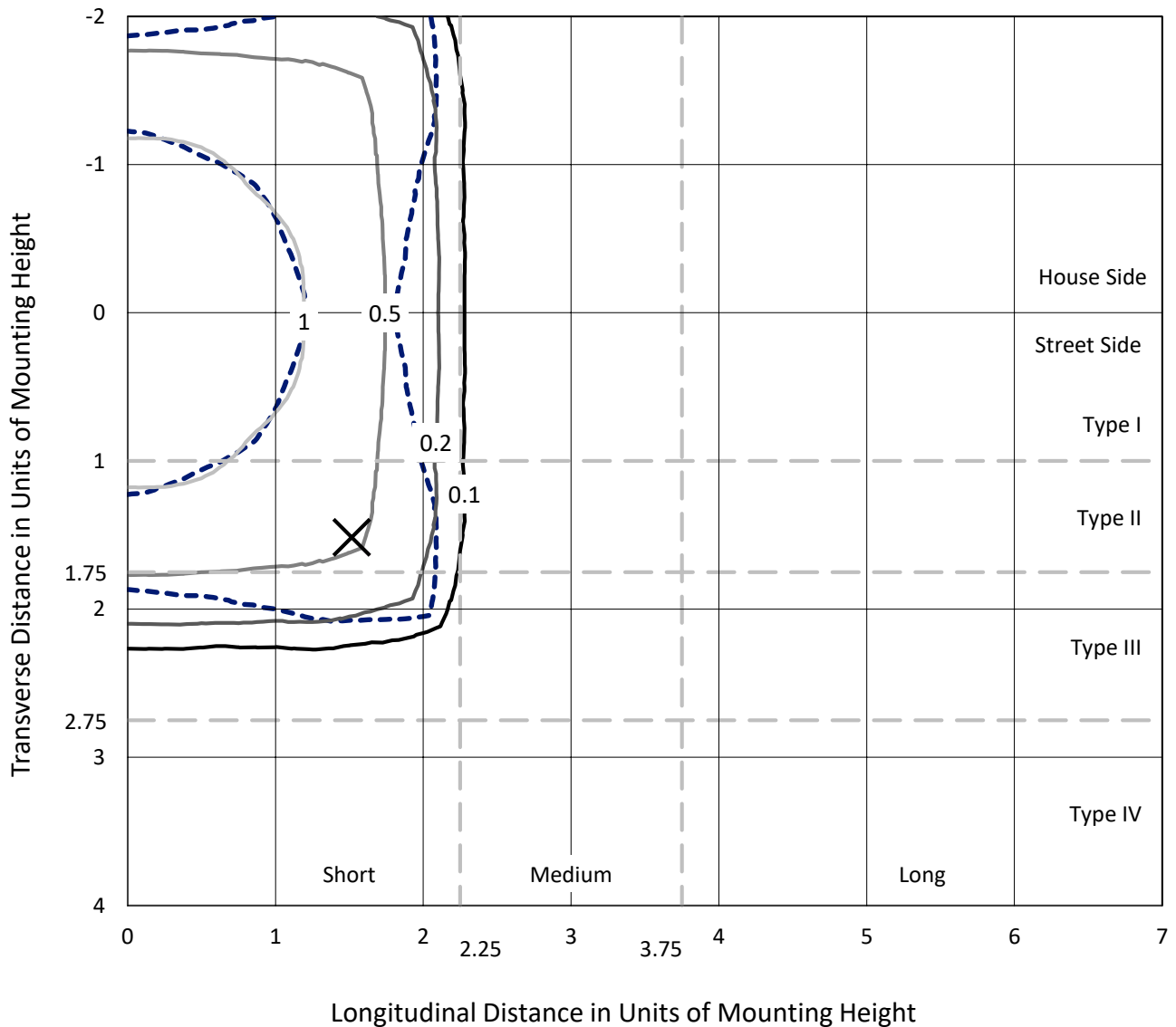
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

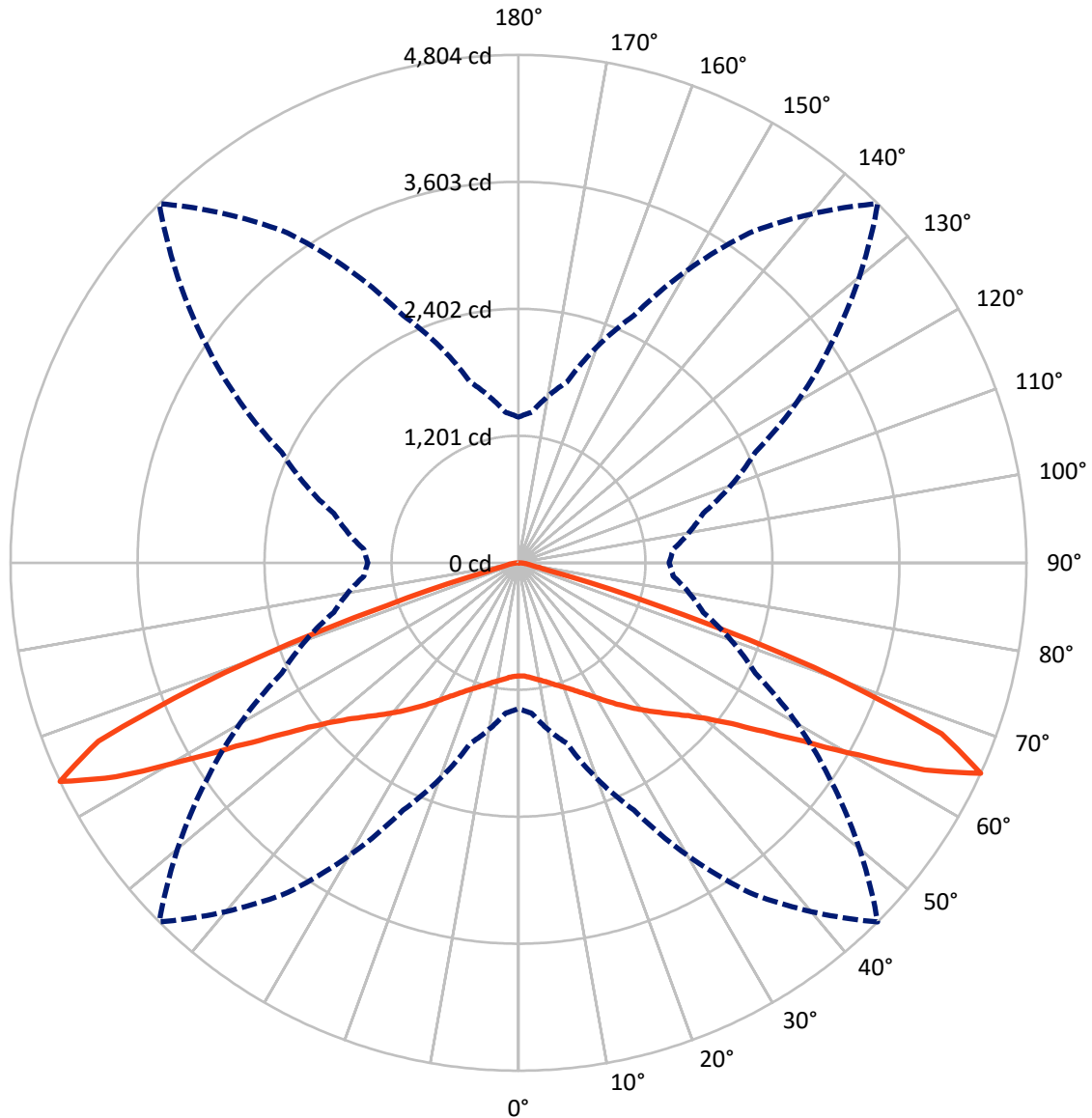
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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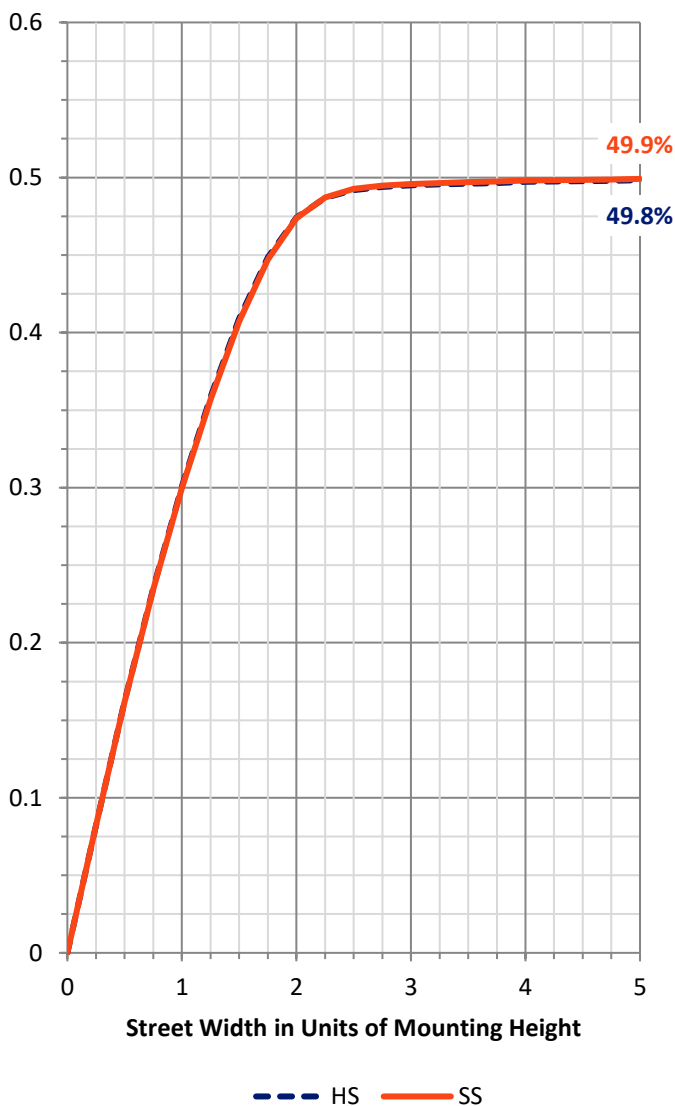
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4433.0	0.0	4433.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4433.0	0.0	4433.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8866.0	0.0	8866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.2
10°-20°	337.7	3.8
20°-30°	633.5	7.1
30°-40°	1047.7	11.8
40°-50°	1622.7	18.3
50°-60°	2488.8	28.1
60°-70°	2322.3	26.2
70°-80°	270.3	3.0
80°-90°	38.0	0.4
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°	8866.0	100.0
0°-180°	8866.0	100.0

Coefficient of Utilization



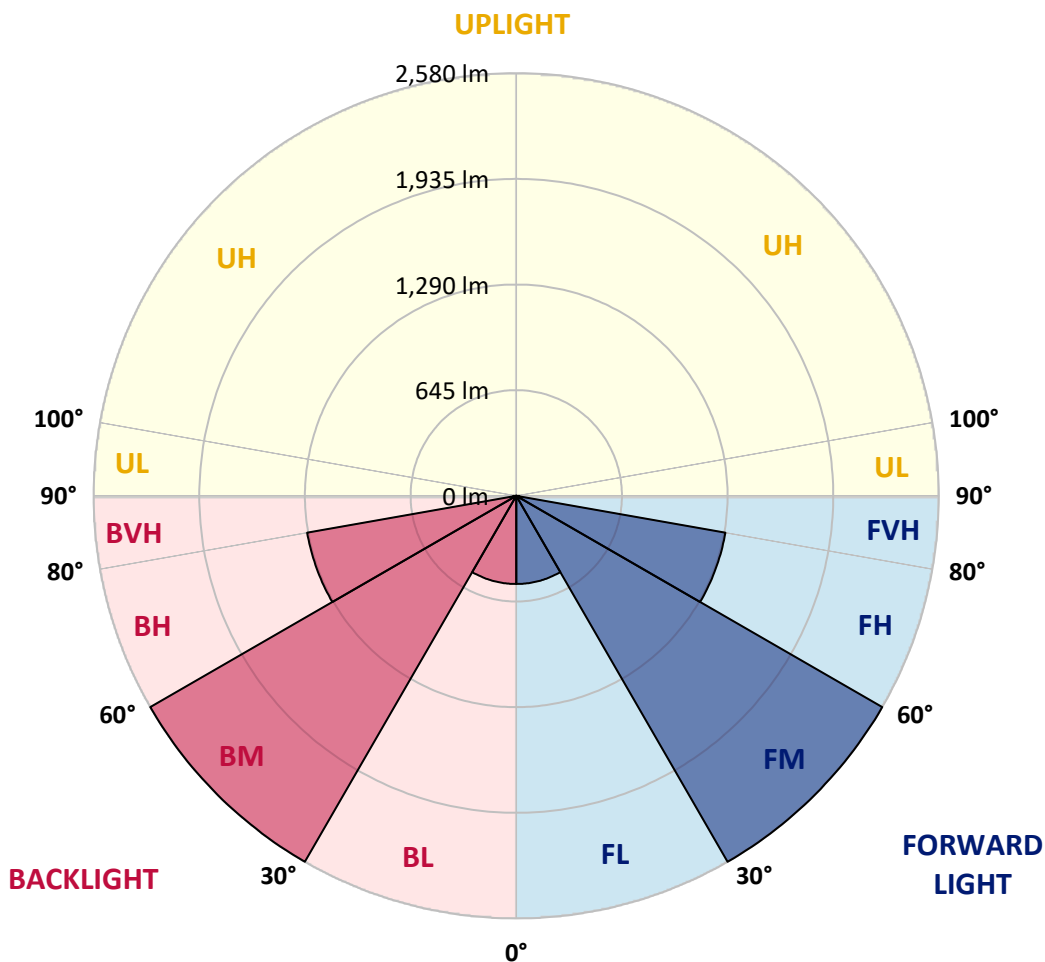
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.1	6.1			
FM (30°-60°)	2579.6	29.1			
FH (60°-80°)	1296.3	14.6			G1/1800
FVH (80°-90°)	19.0	0.2			G1/100
BL (0°-30°)	538.1	6.1	B2/1000		
BM (30°-60°)	2579.6	29.1	B3/5000		
BH (60°-80°)	1296.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	19.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7	1070.7
2.5°	1074.2	1073.6	1074.2	1074.5	1072.7	1073.6	1073.3	1074.8	1075.4	1074.8	1074.8
5°	1086.6	1085.7	1086.9	1088.3	1086.0	1086.6	1085.7	1087.5	1088.0	1086.9	1087.8
7.5°	1103.6	1103.9	1105.1	1107.8	1106.3	1107.5	1105.7	1106.0	1105.7	1103.9	1104.2
10°	1122.2	1122.5	1124.5	1128.1	1128.7	1128.7	1127.5	1126.6	1125.4	1124.2	1124.5
12.5°	1144.6	1146.0	1147.5	1151.9	1151.9	1154.3	1153.7	1151.3	1149.3	1147.5	1147.5
15°	1174.9	1174.6	1176.3	1180.8	1182.8	1186.6	1186.6	1183.4	1180.8	1179.0	1178.4
17.5°	1206.7	1207.5	1208.7	1214.0	1217.2	1221.7	1222.2	1219.6	1217.8	1215.5	1214.0
20°	1243.7	1245.2	1249.9	1252.0	1254.9	1259.0	1260.5	1259.9	1258.2	1257.0	1257.3
22.5°	1287.0	1290.8	1293.8	1296.7	1300.2	1303.2	1304.7	1306.7	1304.9	1304.1	1303.5
25°	1339.4	1342.0	1347.9	1353.2	1355.6	1356.5	1358.2	1361.2	1360.9	1358.8	1358.8
27.5°	1398.8	1403.8	1411.2	1418.8	1418.8	1415.9	1421.8	1426.8	1425.0	1422.4	1418.8
30°	1470.9	1475.6	1484.2	1494.8	1489.5	1487.4	1495.4	1504.5	1501.8	1497.4	1496.8
32.5°	1548.6	1553.0	1564.2	1575.7	1568.9	1566.0	1574.5	1587.8	1583.1	1574.2	1568.9
35°	1632.8	1637.2	1653.1	1666.9	1655.5	1650.5	1657.5	1671.9	1663.7	1647.2	1643.1
37.5°	1724.3	1726.7	1747.3	1761.4	1753.5	1740.2	1749.1	1759.6	1752.6	1732.6	1724.6
40°	1819.4	1827.9	1851.8	1868.2	1854.4	1833.5	1848.2	1863.0	1852.4	1826.8	1813.2
42.5°	1930.3	1936.8	1968.6	1983.3	1961.0	1931.5	1951.5	1971.5	1961.0	1936.2	1924.5
45°	2045.7	2055.7	2093.7	2108.4	2076.0	2038.7	2063.1	2098.1	2097.2	2061.6	2049.2
47.5°	2171.4	2181.4	2226.7	2246.1	2211.1	2161.1	2195.5	2245.0	2241.4	2202.3	2192.3
50°	2316.5	2327.1	2383.6	2408.0	2375.3	2317.1	2368.9	2412.4	2405.9	2357.7	2358.6
52.5°	2498.6	2498.1	2568.4	2610.8	2577.2	2525.7	2573.4	2615.8	2589.0	2522.2	2520.1
55°	2658.2	2667.9	2755.0	2835.3	2833.3	2813.6	2832.7	2834.5	2757.9	2669.1	2658.2
57.5°	2762.9	2781.5	2904.2	3049.6	3158.5	3184.7	3147.6	3035.2	2855.9	2713.8	2696.4
60°	2698.5	2726.7	2919.5	3215.9	3536.7	3690.6	3481.3	3132.6	2779.7	2581.6	2558.1
62.5°	2263.5	2311.2	2593.4	3135.5	3862.2	4312.2	3723.3	2976.3	2476.6	2203.8	2163.4
65°	1378.5	1428.9	1769.1	2580.8	3809.5	4804.2	3612.9	2470.4	1807.6	1468.3	1424.7
67.5°	459.4	474.1	674.5	1426.5	2994.0	4316.6	2999.0	1478.9	786.7	521.5	506.2
70°	179.8	181.3	214.0	413.5	1413.8	2964.8	1560.1	420.9	223.7	176.9	180.7
72.5°	132.1	132.7	141.9	172.8	368.5	1306.1	381.7	173.6	138.0	123.9	123.9
75°	106.2	106.2	112.7	126.0	165.1	299.6	167.5	124.5	108.0	98.9	97.7
77.5°	83.9	85.6	90.6	99.2	111.8	144.2	116.0	98.6	87.1	78.6	76.8
80°	62.4	64.2	72.4	76.5	80.3	100.1	85.6	77.1	68.9	58.9	57.1
82.5°	40.9	42.7	53.0	55.3	54.4	65.3	57.7	56.8	50.6	38.0	36.2
85°	26.8	27.4	35.3	36.8	33.8	29.7	36.8	38.8	35.3	24.7	23.8
87.5°	12.7	12.7	18.0	16.8	15.3	12.4	16.8	19.7	20.0	12.1	11.8
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)