

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: P316616

Luminaire Tested: **GLEON-SA2D-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12259 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

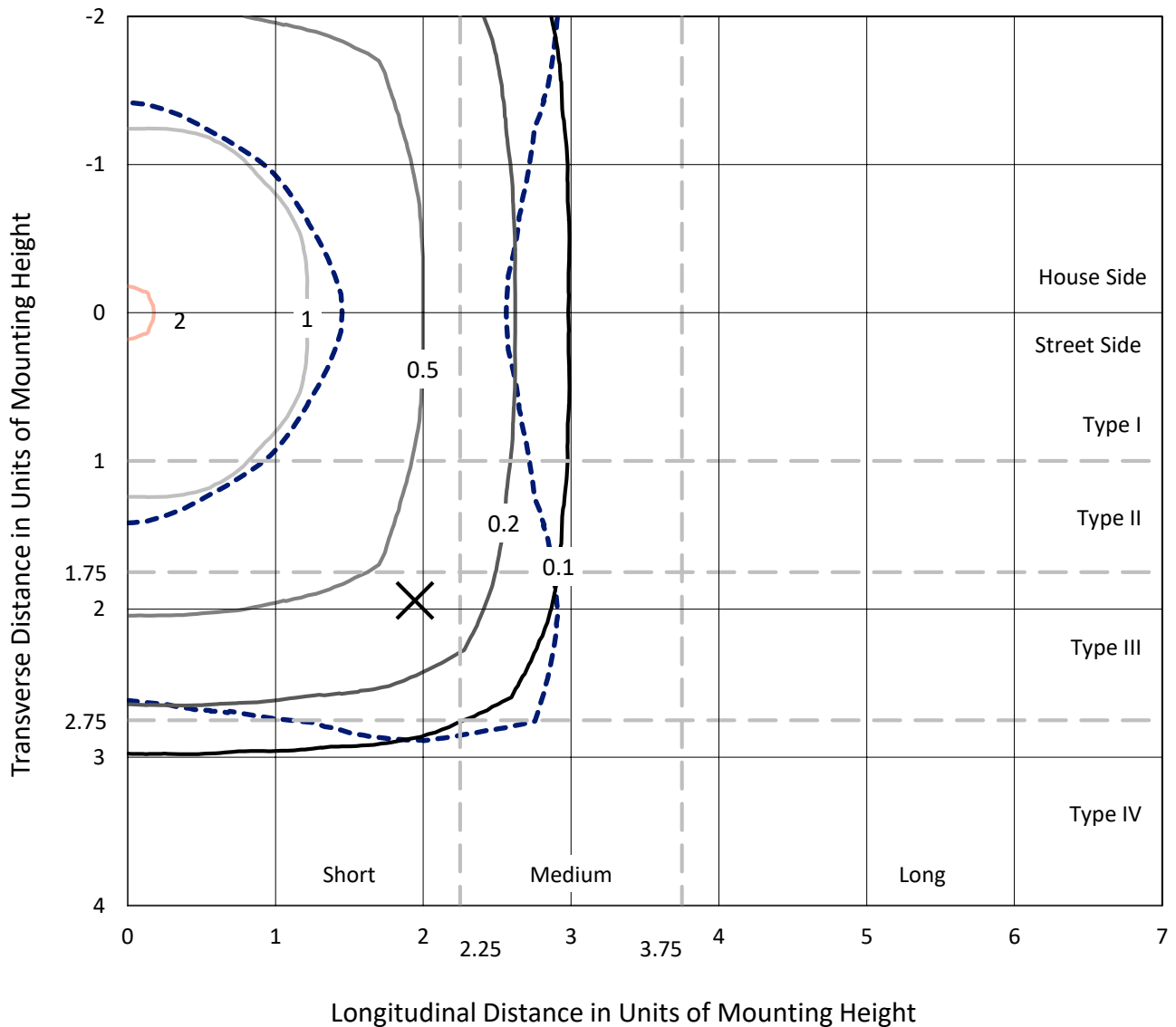
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

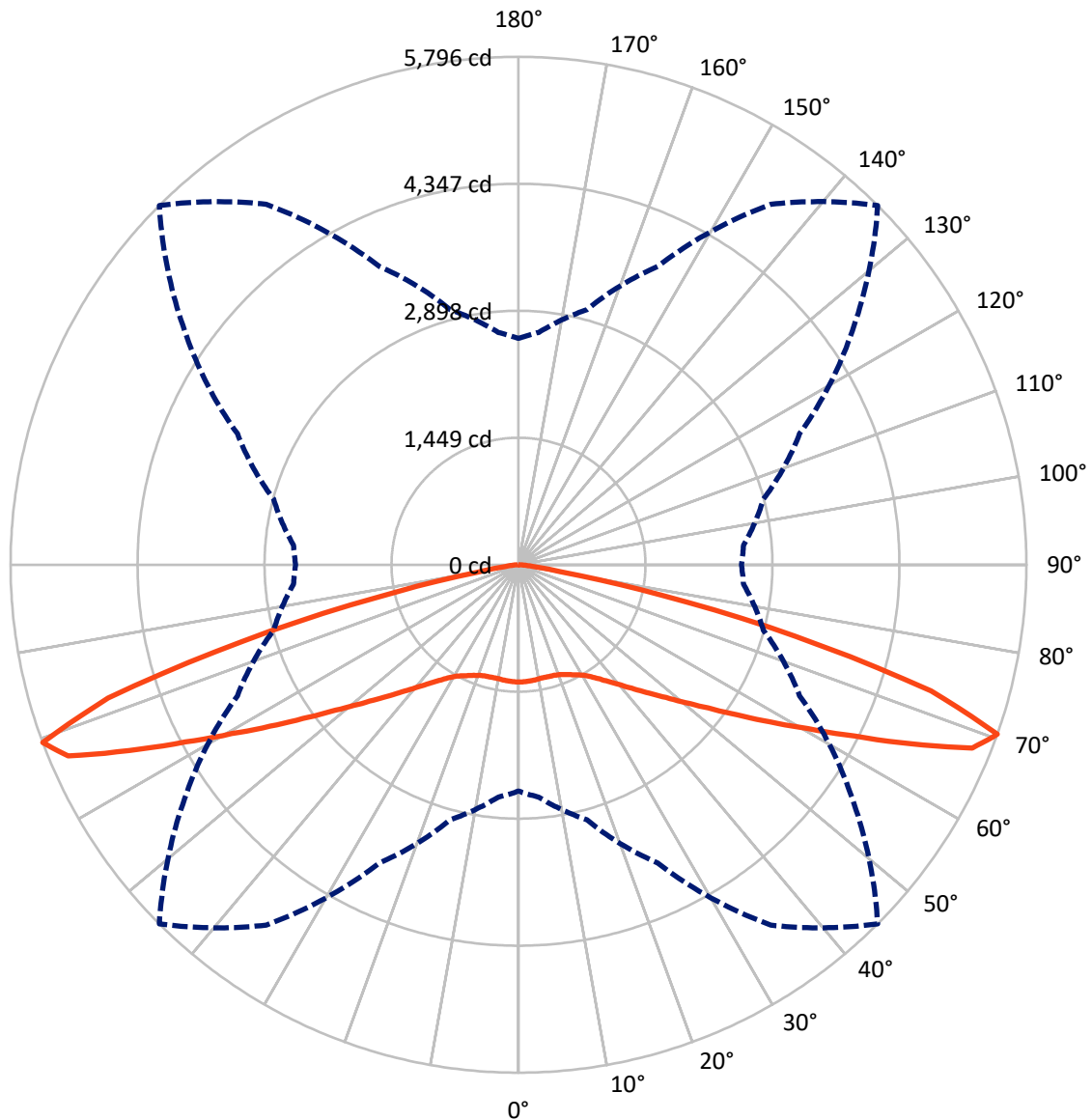
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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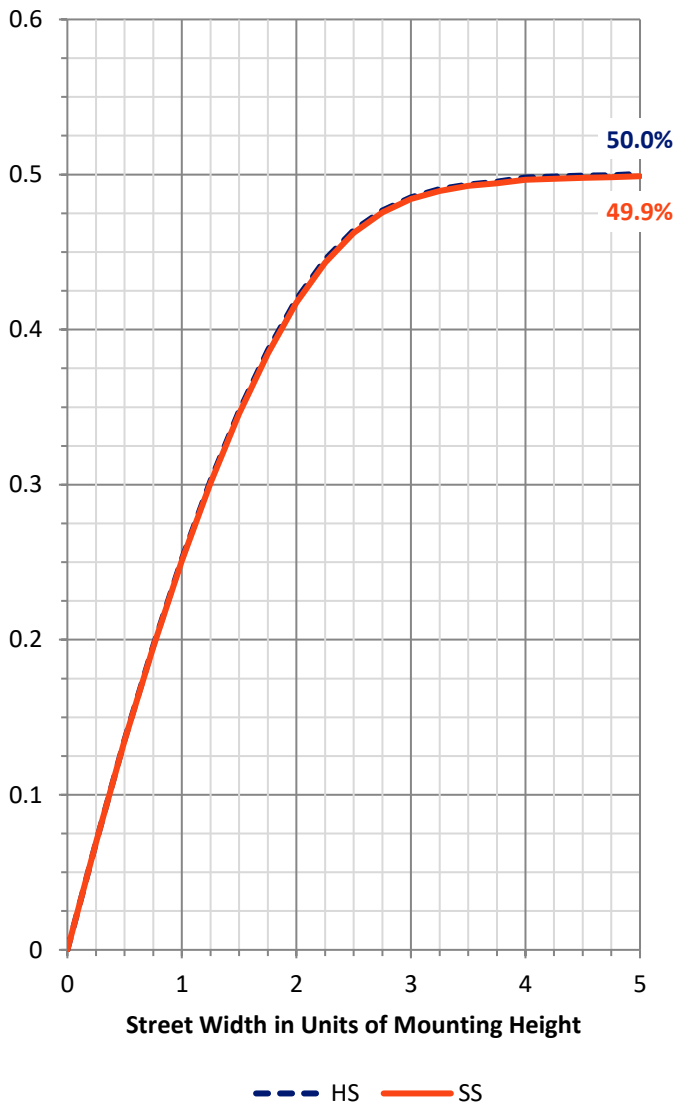
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6129.5	0.0	6129.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6129.5	0.0	6129.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12259.0	0.0	12259.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	1.0
10°-20°	372.3	3.0
20°-30°	633.7	5.2
30°-40°	1005.1	8.2
40°-50°	1635.6	13.3
50°-60°	2696.8	22.0
60°-70°	3958.9	32.3
70°-80°	1750.6	14.3
80°-90°	79.3	0.6
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°	12259.0	100.0
0°-180°	12259.0	100.0

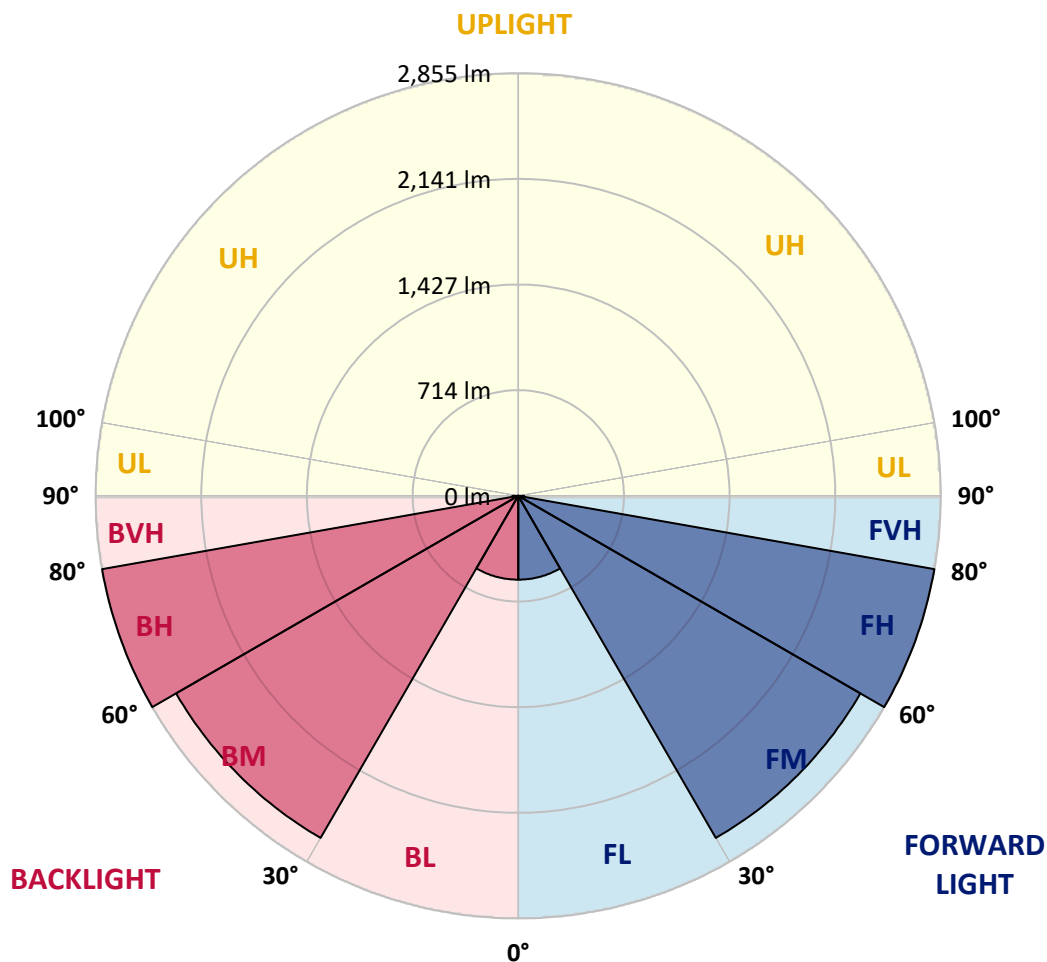


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.4	4.6			
FM (30°-60°)	2668.7	21.8			
FH (60°-80°)	2854.8	23.3			G2/5000
FVH (80°-90°)	39.6	0.3			G1/100
BL (0°-30°)	566.4	4.6	B2/1000		
BM (30°-60°)	2668.7	21.8	B3/5000		
BH (60°-80°)	2854.8	23.3	B4/5000		G2/5000
BVH (80°-90°)	39.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9	1338.9
2.5°	1336.8	1335.6	1338.5	1338.1	1335.6	1336.0	1336.0	1337.3	1337.3	1336.4	1336.4
5°	1332.0	1331.2	1334.4	1334.4	1332.0	1332.8	1333.6	1334.8	1334.4	1333.6	1333.2
7.5°	1325.9	1325.5	1328.7	1328.7	1327.1	1327.9	1327.1	1327.5	1326.7	1325.9	1324.7
10°	1315.7	1316.6	1319.4	1320.2	1320.2	1320.6	1319.8	1317.8	1316.6	1315.3	1314.1
12.5°	1306.4	1306.0	1310.1	1312.1	1315.3	1319.0	1316.6	1310.9	1308.4	1306.0	1305.2
15°	1300.3	1300.7	1304.8	1308.4	1314.1	1321.8	1319.0	1310.1	1305.2	1302.4	1301.5
17.5°	1299.1	1299.9	1305.2	1311.7	1317.8	1326.3	1324.7	1315.7	1307.6	1302.4	1301.1
20°	1302.0	1302.4	1310.5	1319.8	1330.4	1338.5	1334.8	1325.1	1314.1	1306.0	1304.0
22.5°	1307.2	1308.9	1319.0	1333.6	1349.8	1360.8	1356.3	1339.7	1322.6	1312.5	1309.7
25°	1323.9	1324.3	1338.1	1357.9	1377.4	1390.0	1384.7	1361.2	1339.3	1327.9	1324.3
27.5°	1358.3	1359.6	1373.4	1396.5	1413.1	1421.2	1418.0	1398.9	1380.3	1368.1	1369.3
30°	1408.3	1409.9	1425.3	1450.9	1461.0	1463.0	1462.2	1453.3	1436.2	1420.0	1421.2
32.5°	1469.1	1469.9	1490.6	1513.7	1521.9	1523.5	1521.9	1513.7	1493.5	1471.5	1472.8
35°	1547.4	1549.8	1569.7	1592.0	1598.5	1601.8	1598.9	1588.4	1567.3	1545.8	1545.0
37.5°	1644.0	1644.4	1665.1	1688.2	1696.3	1697.1	1693.9	1687.0	1660.6	1641.1	1639.9
40°	1756.0	1757.6	1781.9	1806.7	1809.9	1806.3	1810.7	1806.7	1779.5	1757.2	1760.8
42.5°	1892.3	1895.9	1925.1	1949.5	1940.1	1938.1	1941.0	1942.2	1920.3	1893.1	1890.7
45°	2050.9	2054.2	2090.7	2110.1	2104.1	2090.7	2096.4	2106.1	2075.7	2042.0	2045.2
47.5°	2231.9	2240.0	2278.9	2297.2	2282.2	2263.9	2274.9	2289.5	2253.8	2212.0	2210.0
50°	2433.1	2443.2	2495.2	2520.7	2505.7	2472.0	2490.3	2500.0	2448.5	2394.6	2390.1
52.5°	2647.7	2657.9	2723.2	2775.9	2766.2	2713.9	2739.4	2729.3	2670.0	2597.4	2591.7
55°	2890.7	2894.8	2965.4	3050.6	3060.3	3021.8	3020.2	3003.5	2915.9	2831.9	2827.9
57.5°	3140.7	3143.5	3234.8	3335.4	3381.3	3381.3	3335.8	3300.5	3184.1	3086.7	3076.6
60°	3410.5	3420.6	3521.6	3658.4	3765.5	3797.1	3716.8	3620.6	3494.1	3375.2	3363.4
62.5°	3650.7	3662.4	3817.0	4020.7	4192.7	4307.9	4111.6	3955.0	3724.5	3533.8	3511.5
65°	3681.1	3712.7	3937.9	4306.7	4691.7	4921.8	4545.3	4159.4	3739.5	3474.6	3451.9
67.5°	3361.8	3415.3	3719.6	4293.7	5089.3	5583.1	4822.4	4042.6	3470.1	3177.2	3152.0
70°	2583.2	2661.1	3012.1	3755.7	5020.8	5796.1	4648.7	3539.1	2893.2	2577.9	2542.6
72.5°	1417.2	1449.2	1764.9	2571.9	4025.1	4925.4	3877.5	2616.9	1918.6	1561.2	1502.0
75°	449.5	460.9	621.6	1052.4	2276.9	3262.4	2463.1	1284.5	707.2	521.3	515.3
77.5°	199.6	200.8	224.8	307.1	784.3	1652.9	942.1	349.7	241.0	210.6	217.5
80°	126.2	126.2	139.2	152.1	213.4	480.0	254.8	166.3	142.0	131.9	134.7
82.5°	60.5	66.9	90.5	97.4	117.3	161.5	130.6	108.7	94.9	70.6	65.7
85°	39.8	33.3	57.2	64.5	68.2	77.5	75.9	71.8	62.1	35.3	39.4
87.5°	17.9	17.0	29.6	27.2	25.6	19.5	29.2	36.1	34.9	17.4	17.4
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)