

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: P527129

Luminaire Tested: **GALN-SA2A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4057 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

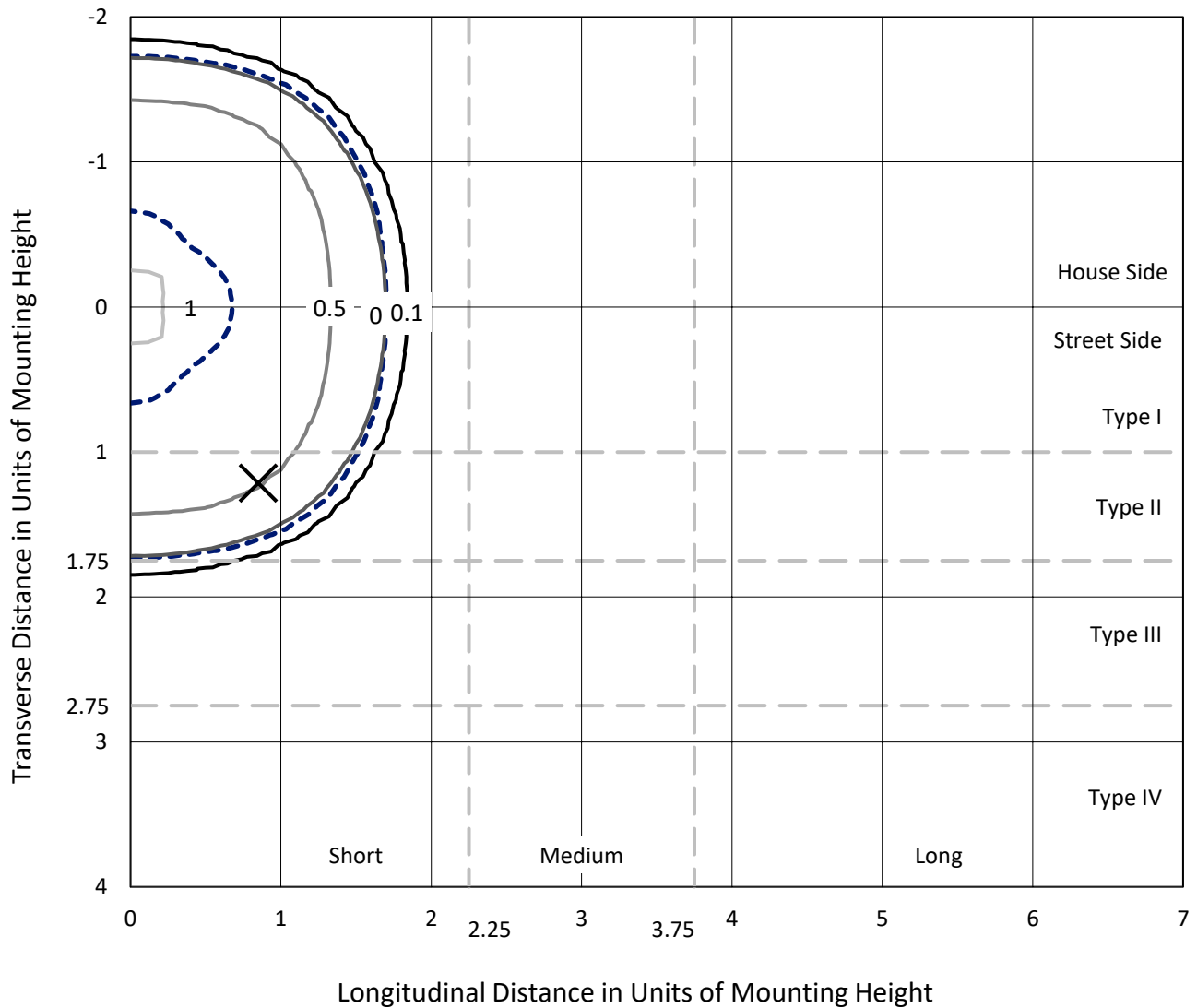
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

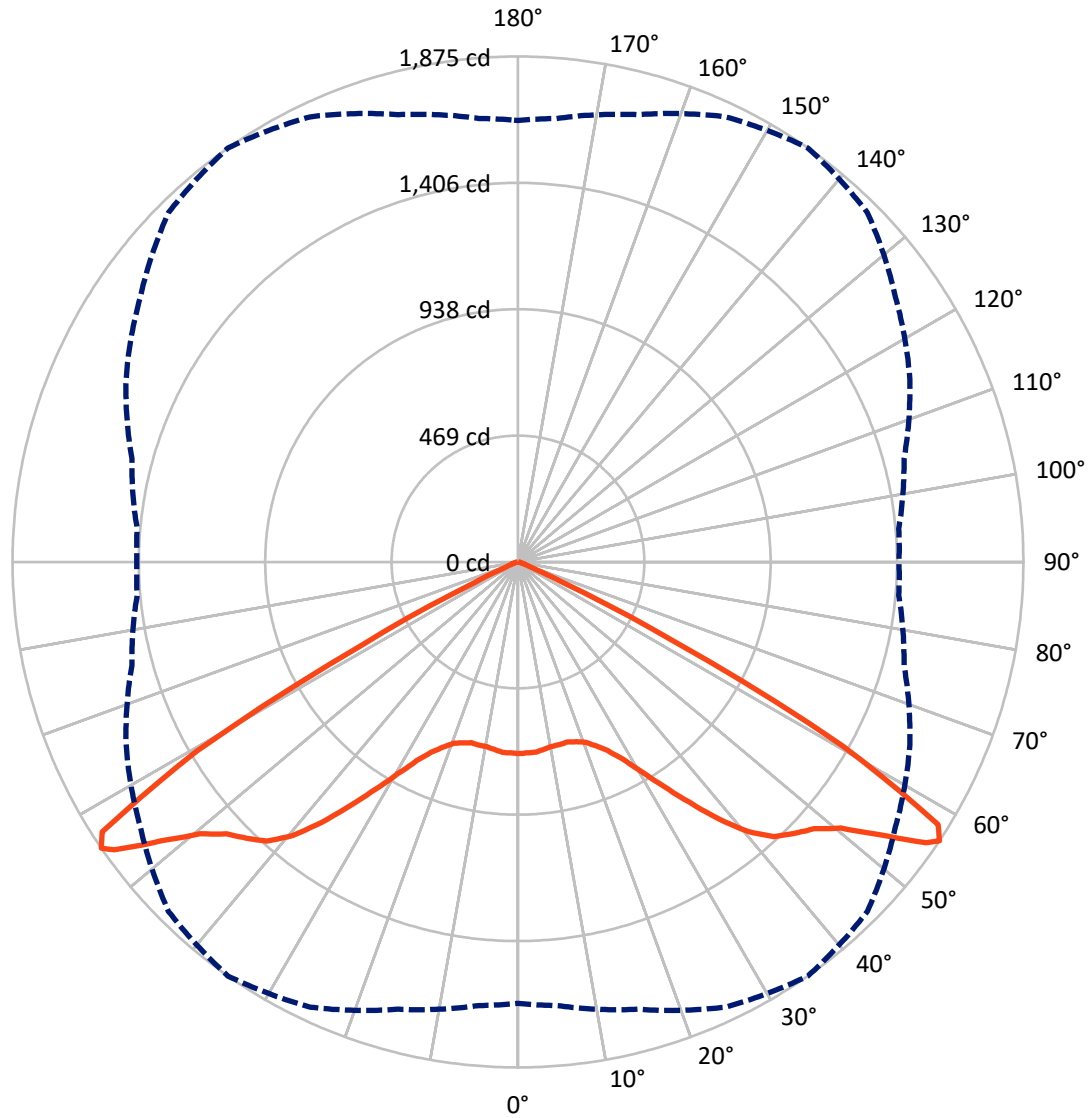
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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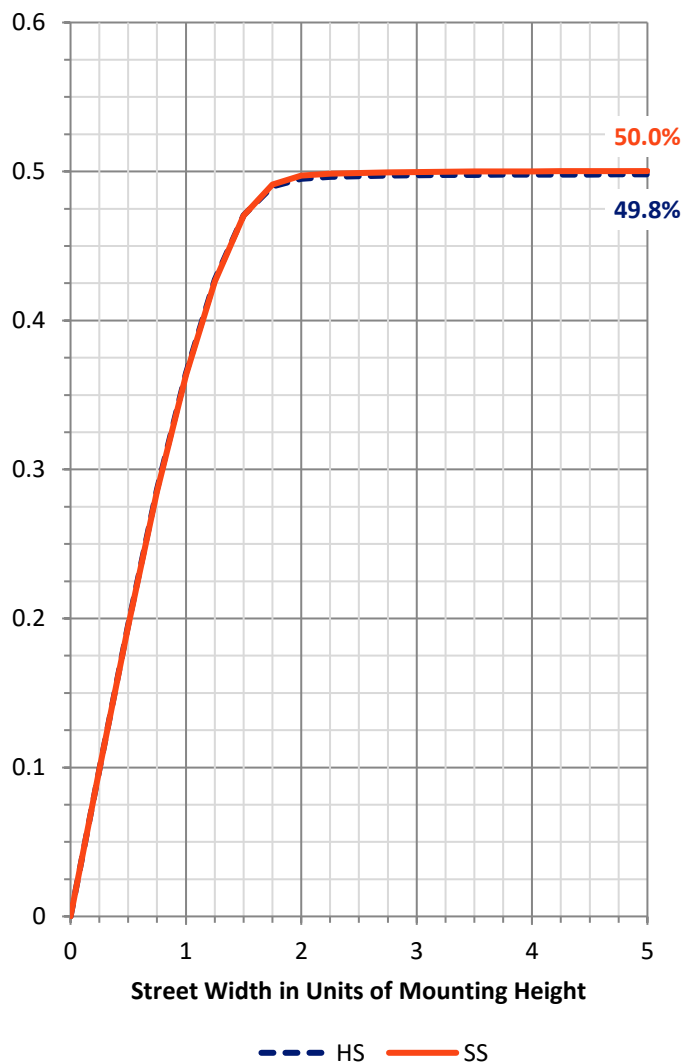
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.5	0.0	2028.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2028.5	0.0	2028.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4057.0	0.0	4057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.6
10°-20°	195.1	4.8
20°-30°	353.2	8.7
30°-40°	655.0	16.1
40°-50°	1075.1	26.5
50°-60°	1385.1	34.1
60°-70°	305.3	7.5
70°-80°	17.7	0.4
80°-90°	3.7	0.1
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°	4057.0	100.0
0°-180°	4057.0	100.0

Coefficient of Utilization



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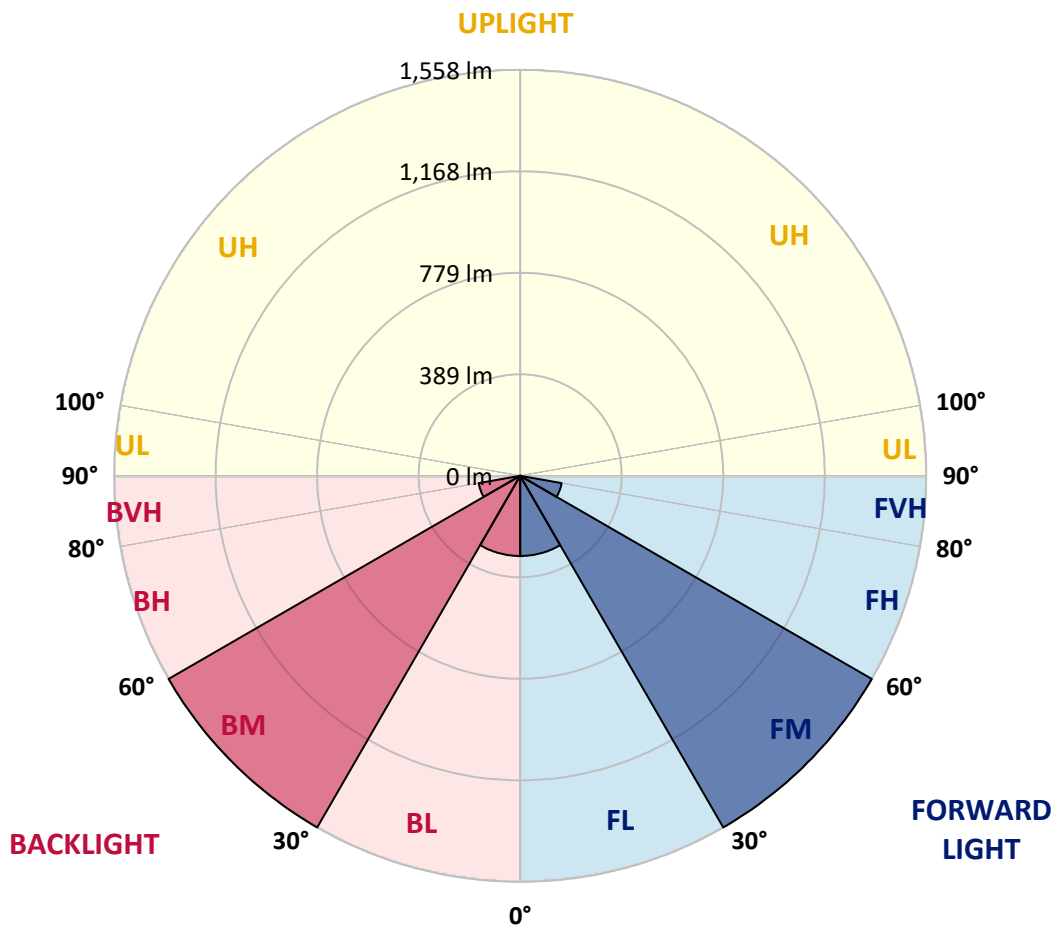
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.5	7.6			
FM (30°-60°)	1557.6	38.4			
FH (60°-80°)	161.5	4.0			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	307.5	7.6	B1/500		
BM (30°-60°)	1557.6	38.4	B2/2500		
BH (60°-80°)	161.5	4.0	B1/500		G0/660
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	712.3	712.3	713.1	713.8	708.7	706.5	707.2	705.7	705.0	707.2	707.2
5°	710.1	710.1	707.9	708.7	708.7	702.1	702.1	703.5	703.5	699.1	697.6
7.5°	704.3	702.8	699.8	703.5	701.3	701.3	696.2	692.5	691.0	694.0	691.0
10°	691.8	692.5	695.4	696.9	695.4	699.8	691.0	685.9	680.7	678.5	678.5
12.5°	685.9	690.3	685.9	689.6	694.7	691.0	685.9	682.2	674.9	671.9	671.9
15°	685.1	688.1	689.6	694.7	692.5	694.0	683.7	679.3	668.2	663.1	660.9
17.5°	684.4	688.1	690.3	699.8	701.3	702.1	694.0	680.7	671.2	666.0	660.9
20°	692.5	694.0	698.4	707.9	713.8	724.1	709.4	695.4	674.9	669.0	666.8
22.5°	702.8	710.1	714.5	724.8	740.3	749.1	730.0	712.3	691.0	683.7	674.9
25°	735.9	734.4	741.7	763.1	775.6	782.2	766.7	741.0	713.1	704.3	705.7
27.5°	777.0	778.5	785.1	808.6	827.0	837.3	818.9	785.1	757.9	743.2	741.7
30°	830.7	829.2	836.6	868.2	901.3	916.7	884.4	844.7	818.2	799.1	803.5
32.5°	887.3	888.0	908.6	937.3	991.0	1021.1	968.9	920.4	880.7	867.5	860.8
35°	971.1	974.8	991.0	1035.1	1094.6	1133.6	1076.2	1018.2	972.6	948.3	951.3
37.5°	1074.8	1071.1	1098.3	1146.1	1208.6	1237.2	1188.7	1122.5	1076.2	1060.1	1070.4
40°	1185.0	1188.7	1202.7	1246.1	1315.9	1335.0	1263.0	1226.9	1186.5	1178.4	1190.9
42.5°	1295.3	1293.1	1303.4	1342.4	1393.1	1379.8	1337.2	1315.9	1287.2	1271.0	1288.0
45°	1376.2	1372.5	1391.6	1418.1	1436.4	1411.5	1392.3	1385.0	1370.3	1352.6	1368.1
47.5°	1454.8	1451.9	1470.3	1477.6	1479.1	1446.0	1449.7	1462.9	1426.2	1389.4	1407.0
50°	1521.7	1516.6	1539.4	1555.5	1551.9	1498.9	1512.2	1498.9	1441.6	1398.2	1391.6
52.5°	1633.5	1635.7	1659.9	1689.3	1680.5	1636.4	1617.3	1557.0	1483.5	1444.5	1421.7
55°	1704.0	1693.0	1734.9	1828.3	1838.6	1793.0	1708.4	1619.5	1509.2	1461.4	1455.6
56°	1637.9	1651.8	1718.0	1822.4	1875.3	1833.4	1710.7	1604.1	1482.8	1418.1	1413.7
57.5°	1469.5	1462.2	1551.9	1694.5	1838.6	1820.9	1650.4	1493.8	1352.6	1279.9	1271.0
60°	914.5	935.8	1014.5	1190.9	1383.5	1392.3	1223.3	1088.7	924.1	859.4	874.8
62.5°	358.0	339.6	388.9	520.5	652.8	682.2	618.2	513.9	422.0	358.0	353.6
65°	83.1	80.9	91.2	125.7	175.7	203.6	193.3	138.9	102.2	97.0	89.7
67.5°	47.0	47.0	44.8	44.8	49.3	52.2	50.0	49.3	51.5	53.7	52.9
70°	33.1	32.3	30.9	31.6	30.1	30.1	32.3	36.0	39.0	39.0	39.7
72.5°	19.8	19.8	19.8	22.1	22.1	22.1	24.3	27.2	27.9	27.2	26.5
75°	8.8	8.8	10.3	12.5	14.0	14.7	16.9	18.4	19.8	18.4	16.9
77.5°	2.2	2.2	3.7	5.1	6.6	8.1	11.0	13.2	14.0	13.2	11.0
80°	0.7	0.7	1.5	3.7	6.6	8.1	11.0	11.8	12.5	11.0	8.8
82.5°	0.7	0.7	1.5	3.7	5.1	6.6	8.8	10.3	11.0	9.6	8.8
85°	0.0	0.7	1.5	2.9	4.4	5.9	5.9	4.4	3.7	2.2	2.9
87.5°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)