

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: P527137

Luminaire Tested: **GALN-SA2A-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
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-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4369 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

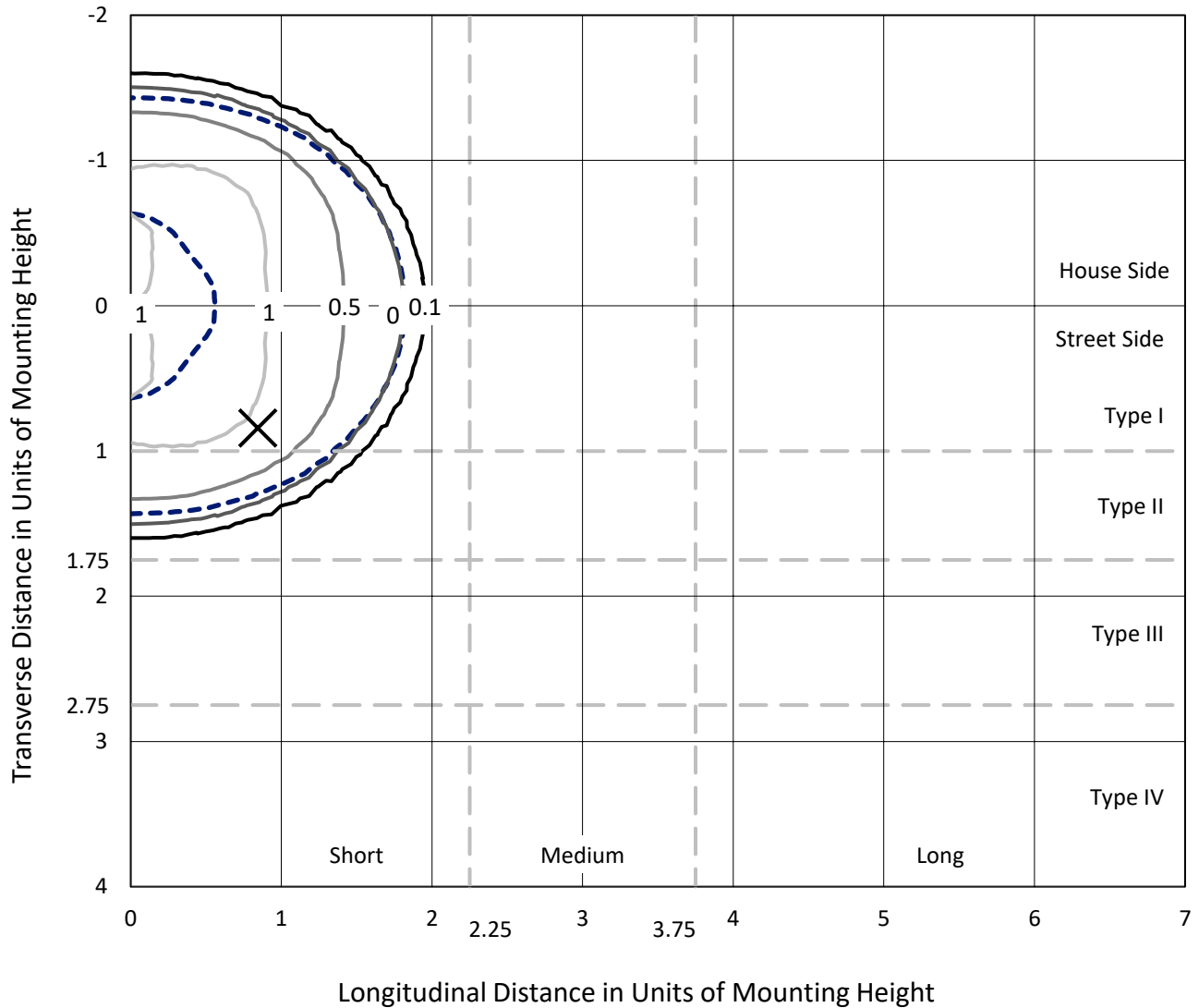
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

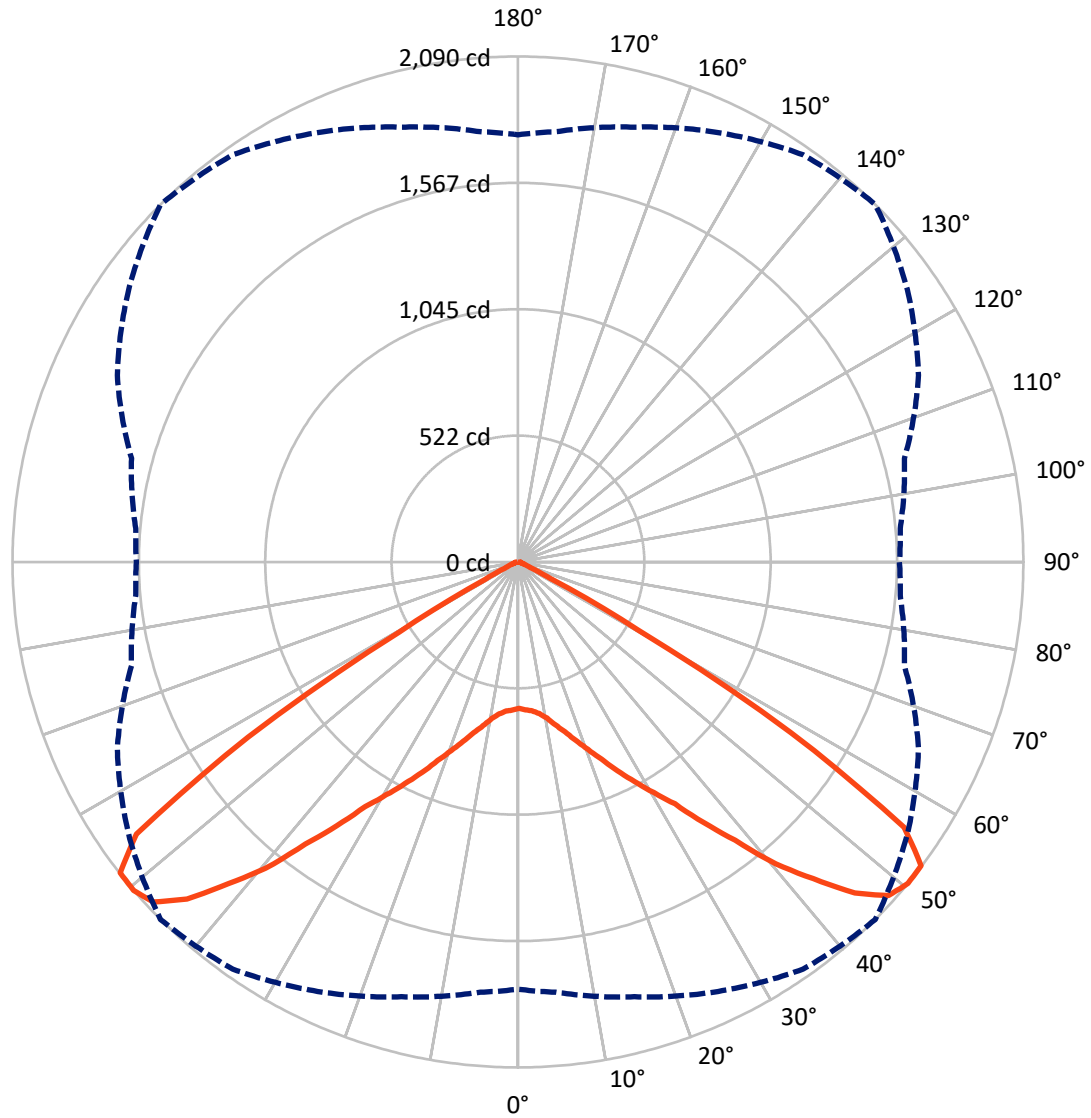
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2184.5	0.0	2184.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2184.5	0.0	2184.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4369.0	0.0	4369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.4
10°-20°	207.7	4.8
20°-30°	424.2	9.7
30°-40°	808.9	18.5
40°-50°	1363.1	31.2
50°-60°	1300.0	29.8
60°-70°	181.5	4.2
70°-80°	17.4	0.4
80°-90°	6.0	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°	4369.0	100.0
0°-180°	4369.0	100.0

Coefficient of Utilization



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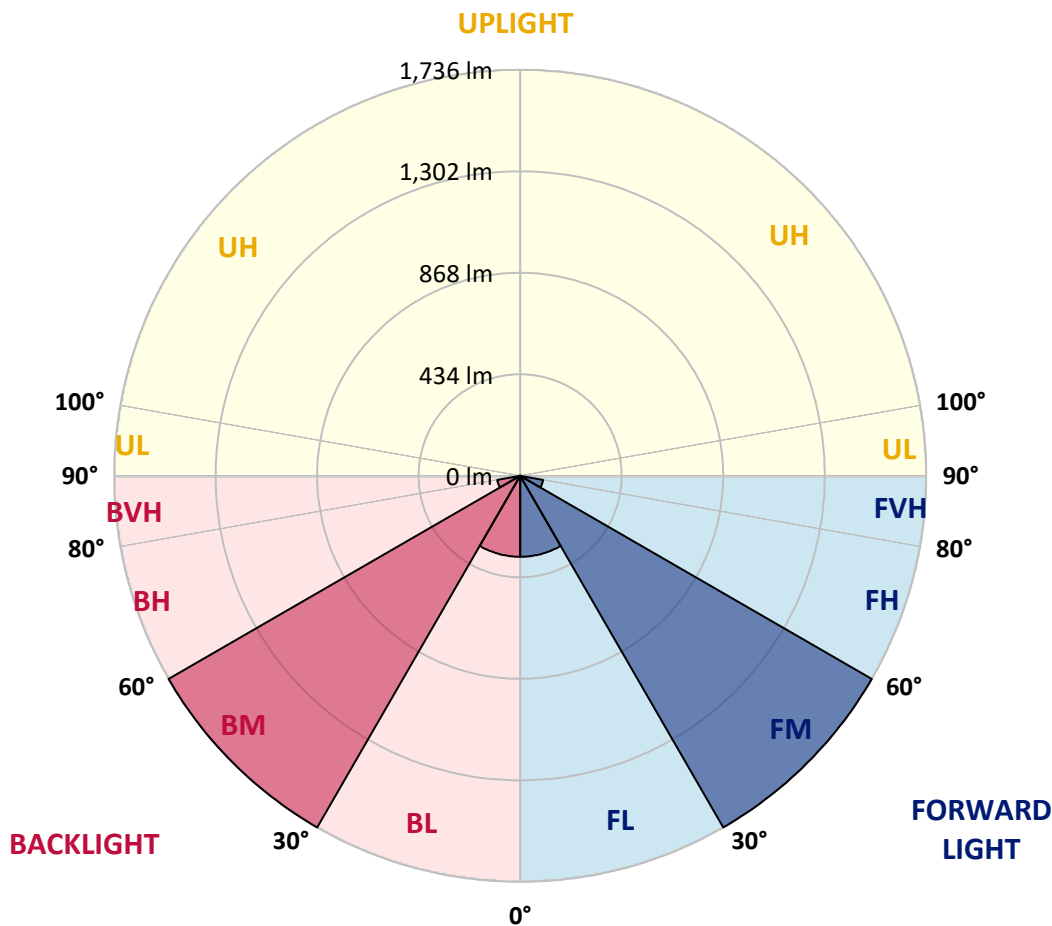
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.1	7.9			
FM (30°-60°)	1736.0	39.7			
FH (60°-80°)	99.4	2.3			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	346.1	7.9	B1/500		
BM (30°-60°)	1736.0	39.7	B2/2500		
BH (60°-80°)	99.4	2.3	B0/110		G0/660
BVH (80°-90°)	3.0	0.1			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°	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7	605.7
2.5°	603.5	603.5	602.8	608.7	605.7	612.3	611.6	613.8	616.0	615.3	621.2
5°	598.4	597.6	597.6	604.2	610.9	618.2	624.8	629.2	636.6	636.6	643.9
7.5°	603.5	599.8	605.0	607.9	620.4	632.9	643.9	652.8	669.7	675.5	673.3
10°	605.0	609.4	613.1	621.9	637.3	656.4	666.0	688.0	707.2	720.4	723.3
12.5°	614.5	621.2	631.4	652.8	666.7	691.7	705.0	726.3	752.7	767.4	777.7
15°	632.9	635.1	648.3	675.5	705.7	728.5	749.1	764.5	790.2	807.1	807.9
17.5°	656.4	666.0	684.4	710.1	741.7	775.5	791.7	808.6	818.2	840.9	846.1
20°	703.5	705.0	722.6	756.4	796.1	827.0	838.7	847.6	843.9	867.4	871.8
22.5°	747.6	749.1	771.1	816.7	859.3	885.8	890.9	885.8	874.8	891.7	893.1
25°	792.4	805.7	821.8	867.4	920.3	955.6	956.4	942.4	919.6	922.5	929.9
27.5°	862.3	871.8	888.7	930.6	988.7	1028.4	1021.8	1004.9	975.5	977.7	975.5
30°	943.9	952.7	966.6	1020.3	1062.9	1106.3	1115.9	1099.7	1055.6	1046.0	1057.1
32.5°	1042.4	1054.9	1080.6	1129.8	1165.9	1192.3	1198.9	1193.1	1151.9	1148.2	1155.6
35°	1162.2	1179.1	1202.6	1246.0	1275.4	1323.2	1323.2	1303.3	1265.8	1270.2	1269.5
37.5°	1288.6	1313.6	1350.4	1394.5	1434.2	1459.9	1451.8	1434.9	1397.4	1387.8	1397.4
40°	1447.4	1459.9	1506.2	1563.5	1612.1	1641.5	1606.9	1570.2	1480.5	1494.4	1520.2
42.5°	1592.2	1612.1	1647.3	1710.6	1765.7	1789.9	1748.8	1676.0	1567.9	1556.9	1576.0
45°	1715.7	1737.0	1783.3	1873.7	1931.8	1953.1	1862.0	1744.4	1620.9	1592.9	1601.0
47.5°	1798.0	1809.1	1873.7	1959.7	2012.7	2061.2	1930.3	1791.4	1645.9	1592.9	1590.0
50°	1766.4	1785.5	1861.2	1959.0	2055.3	2089.9	1964.9	1827.4	1654.0	1586.3	1577.5
52.5°	1568.7	1601.8	1686.3	1817.9	1963.4	2086.9	2012.7	1815.7	1651.0	1592.9	1606.2
55°	1091.6	1092.3	1195.3	1389.3	1646.6	1937.7	1942.8	1828.9	1670.1	1634.1	1634.8
57.5°	438.8	460.9	539.6	734.4	971.8	1330.5	1581.9	1696.6	1672.3	1663.5	1686.3
60°	111.0	111.7	136.0	207.3	341.8	570.4	828.4	1121.0	1290.8	1348.9	1357.0
62.5°	56.6	57.3	63.2	73.5	93.4	152.9	272.0	431.5	613.8	706.4	730.7
65°	46.3	46.3	50.0	55.1	55.9	58.8	70.6	100.7	146.3	166.1	168.3
67.5°	35.3	35.3	38.2	41.2	42.6	41.9	40.4	41.9	50.7	48.5	47.0
70°	22.1	22.8	24.3	27.2	28.7	29.4	30.1	31.6	36.0	37.5	36.0
72.5°	13.2	13.2	14.0	16.2	18.4	19.8	22.1	23.5	25.7	29.4	28.7
75°	5.9	5.9	7.4	9.6	11.8	14.0	16.2	18.4	19.8	22.1	22.8
77.5°	1.5	2.2	3.7	6.6	8.8	11.8	14.7	16.9	18.4	18.4	17.6
80°	0.7	0.7	2.9	5.1	9.6	12.5	16.2	17.6	19.8	18.4	16.2
82.5°	0.7	0.7	2.9	5.1	8.8	12.5	16.9	19.1	20.6	18.4	15.4
85°	0.0	0.7	2.2	4.4	7.4	8.8	7.4	5.1	2.9	2.9	2.2
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)