

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: P451743

Luminaire Tested: **GALN-SA2C-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10375 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

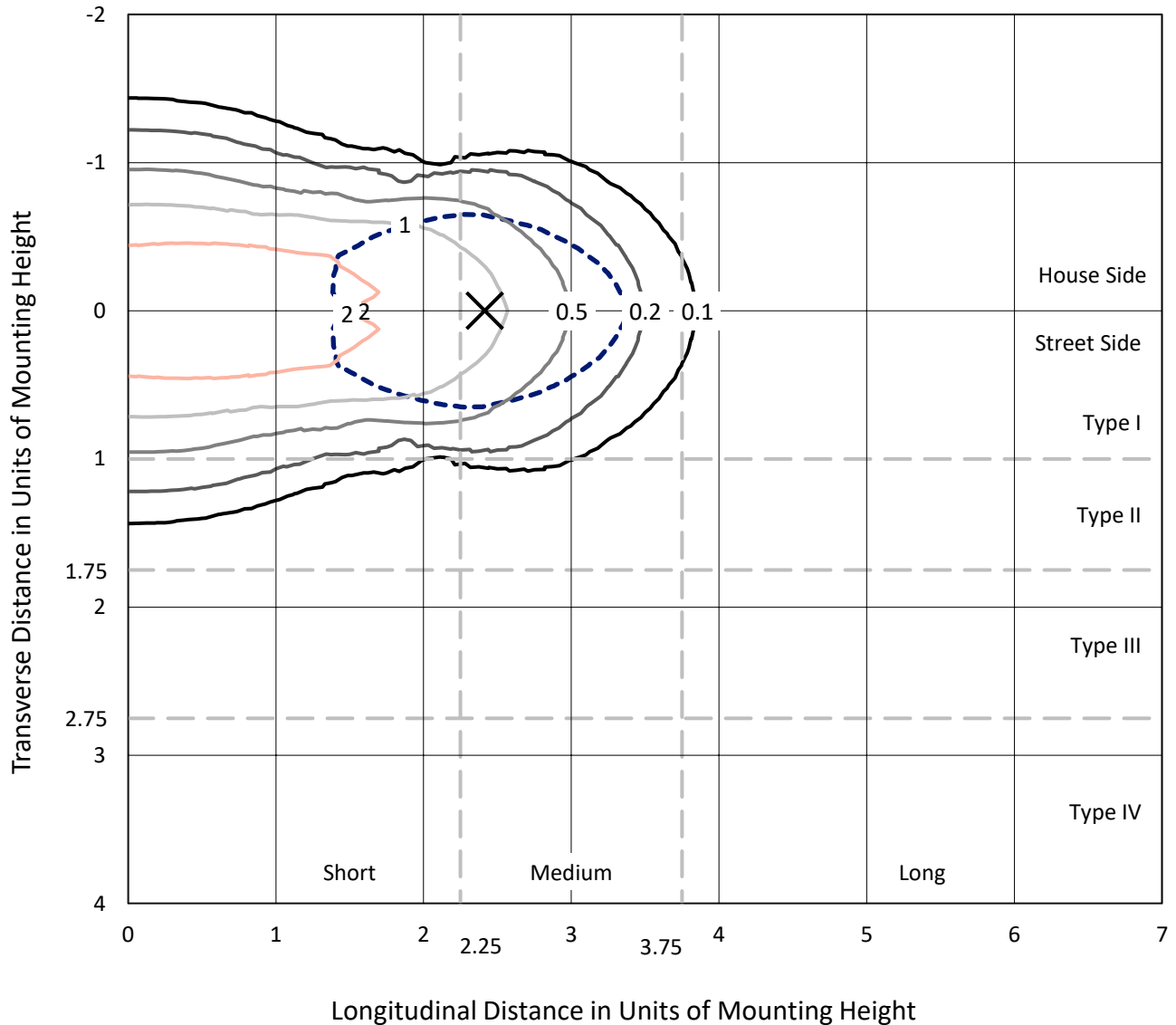
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

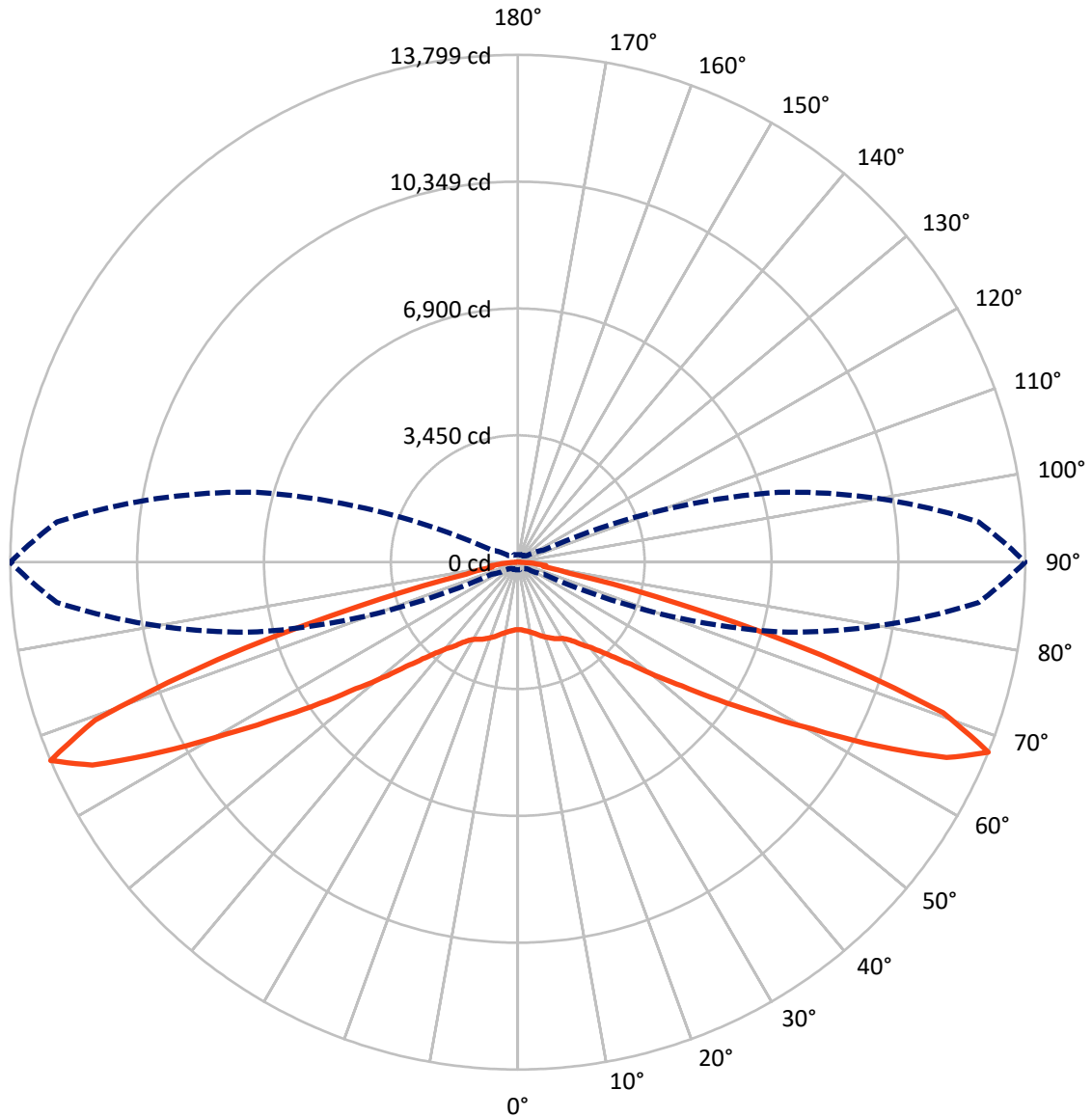
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5187.5	0.0	5187.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5187.5	0.0	5187.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10375.0	0.0	10375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.8
10°-20°	585.9	5.6
20°-30°	980.6	9.5
30°-40°	1328.5	12.8
40°-50°	1682.7	16.2
50°-60°	2102.2	20.3
60°-70°	2471.0	23.8
70°-80°	945.3	9.1
80°-90°	95.8	0.9
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°	10375.0	100.0
0°-180°	10375.0	100.0

Coefficient of Utilization



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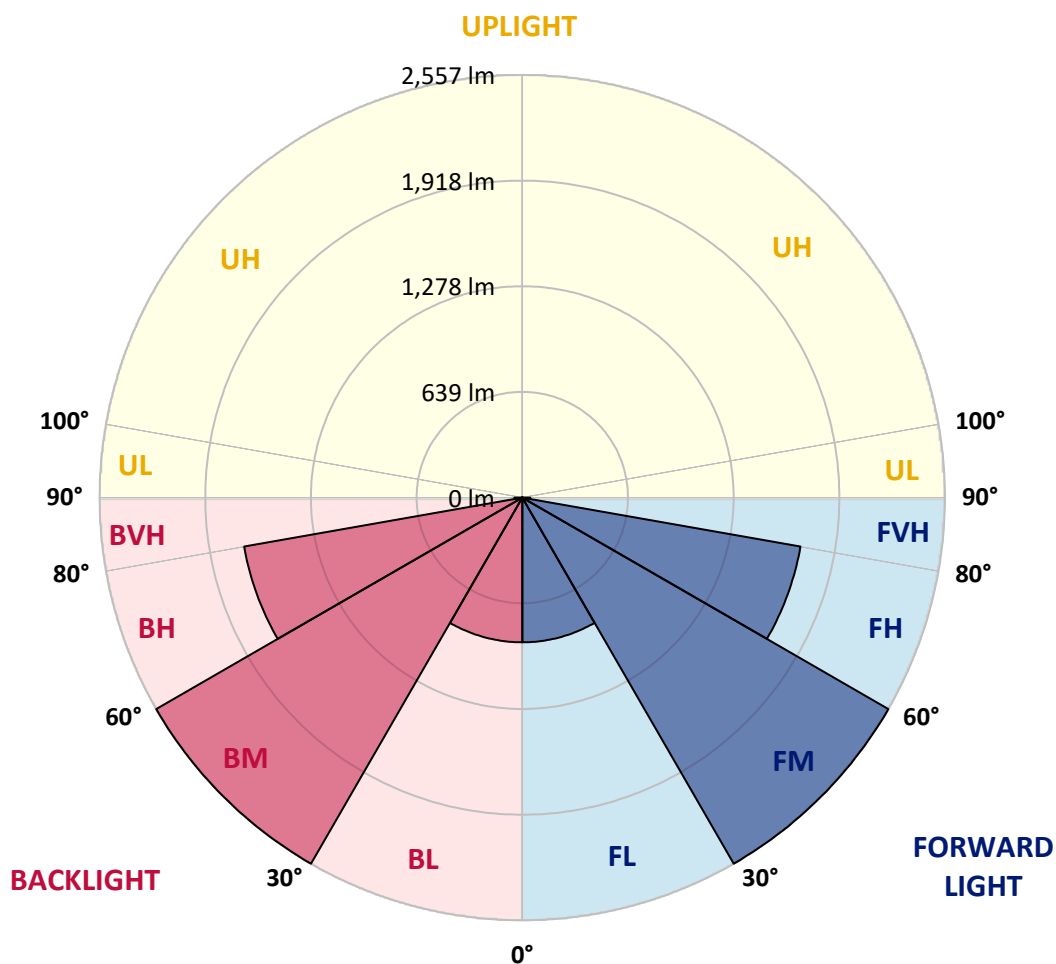
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.8	8.4			
FM	(30°-60°)	2556.7	24.6			
FH	(60°-80°)	1708.1	16.5			G1/1800
FVH	(80°-90°)	47.9	0.5			G1/100
BL	(0°-30°)	874.8	8.4	B2/1000		
BM	(30°-60°)	2556.7	24.6	B3/5000		
BH	(60°-80°)	1708.1	16.5	B3/2500		G3/2500
BVH	(80°-90°)	47.9	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7	1836.7
2.5°	1860.3	1859.1	1859.7	1859.1	1860.8	1859.7	1852.8	1847.0	1842.4	1843.0	1841.3
5°	1899.9	1900.5	1901.0	1898.2	1902.2	1899.9	1889.0	1879.8	1870.6	1867.1	1866.0
7.5°	1932.6	1935.5	1937.2	1940.1	1947.0	1947.0	1941.3	1928.0	1907.9	1896.4	1895.9
10°	1965.4	1967.7	1972.9	1982.0	1993.5	2004.5	2002.2	1984.3	1958.5	1939.0	1934.4
12.5°	1976.9	1979.8	1997.0	2023.4	2049.3	2070.5	2070.5	2056.2	2022.8	1993.0	1984.3
15°	1936.7	1941.8	1972.9	2029.2	2096.9	2143.5	2153.8	2133.7	2098.1	2052.1	2041.8
17.5°	1856.8	1869.4	1914.8	1998.1	2110.7	2207.3	2237.1	2227.4	2181.4	2122.8	2110.7
20°	1771.2	1785.0	1833.3	1943.6	2099.2	2244.6	2331.3	2333.6	2276.8	2191.7	2173.9
22.5°	1677.0	1687.3	1749.4	1878.6	2064.8	2253.2	2412.4	2452.0	2375.0	2260.7	2235.4
25°	1571.3	1582.8	1647.7	1787.3	1999.9	2243.4	2486.5	2573.8	2477.8	2334.2	2302.0
27.5°	1470.2	1474.8	1544.3	1686.2	1914.3	2218.2	2541.0	2685.8	2591.6	2395.1	2354.3
30°	1373.1	1384.0	1445.5	1585.6	1816.0	2168.8	2588.2	2813.4	2714.0	2458.9	2406.6
32.5°	1270.2	1283.4	1350.1	1492.0	1717.8	2094.7	2616.9	2953.0	2884.6	2562.3	2506.6
35°	1171.4	1180.0	1247.3	1385.1	1621.8	2008.5	2622.0	3110.4	3104.6	2719.1	2645.0
37.5°	1070.3	1082.9	1150.7	1282.9	1520.1	1917.1	2596.2	3277.6	3370.1	2936.9	2857.0
40°	973.2	984.1	1050.8	1184.1	1404.7	1805.7	2534.7	3430.4	3679.7	3160.9	3047.8
42.5°	867.5	870.4	943.3	1078.9	1291.5	1676.4	2446.2	3566.5	4025.0	3461.4	3320.6
45°	747.4	754.9	822.7	956.0	1161.7	1531.6	2326.2	3679.1	4462.8	3877.9	3686.0
47.5°	627.4	633.7	695.7	827.3	1019.7	1365.6	2141.2	3778.0	4912.0	4407.0	4155.4
50°	510.2	513.6	564.2	680.8	860.0	1191.0	1912.0	3809.6	5419.9	5156.2	4835.0
52.5°	403.3	408.5	447.0	538.3	689.4	984.7	1664.3	3731.4	6012.8	6044.4	5591.7
55°	326.9	328.6	357.3	424.6	538.9	768.7	1365.6	3513.7	6650.5	7182.5	6605.1
57.5°	281.5	282.7	298.7	336.1	414.8	579.7	1059.4	3101.8	7223.3	8515.9	7773.7
60°	255.7	256.2	265.4	287.3	328.6	444.7	758.9	2520.4	7788.6	9999.9	9226.0
62.5°	239.6	239.6	245.9	258.0	278.1	341.3	549.8	1818.3	8175.8	11505.6	11016.2
65°	224.1	224.1	228.7	237.3	248.2	279.2	406.2	1185.8	8166.0	12602.4	12816.7
67.5°	206.2	206.2	209.7	218.3	224.6	240.1	313.7	776.7	7335.3	12578.3	13799.1
70°	185.0	185.0	189.6	197.1	202.2	212.0	247.6	531.4	5388.9	10739.8	12272.0
72.5°	163.7	164.3	167.2	174.7	178.7	184.4	205.7	372.3	3305.7	7312.9	8580.8
75°	140.2	141.3	144.2	151.7	155.1	157.4	173.5	265.4	1672.4	3942.8	4489.2
77.5°	113.2	115.5	117.2	125.2	127.5	131.0	143.1	191.9	734.2	1416.7	1429.4
80°	82.7	85.6	90.8	98.2	100.0	102.3	109.2	136.2	332.6	646.9	702.6
82.5°	60.9	64.9	58.6	68.4	68.4	65.5	77.0	91.3	152.8	640.6	766.4
85°	33.3	33.9	30.4	35.0	37.3	36.8	40.8	44.8	74.1	427.4	440.6
87.5°	8.0	8.6	9.2	10.9	13.2	13.2	14.4	12.6	24.1	138.5	79.3
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)