

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: P452207

Luminaire Tested: **GALN-SA3A-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452207  
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-SA3A-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10018 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

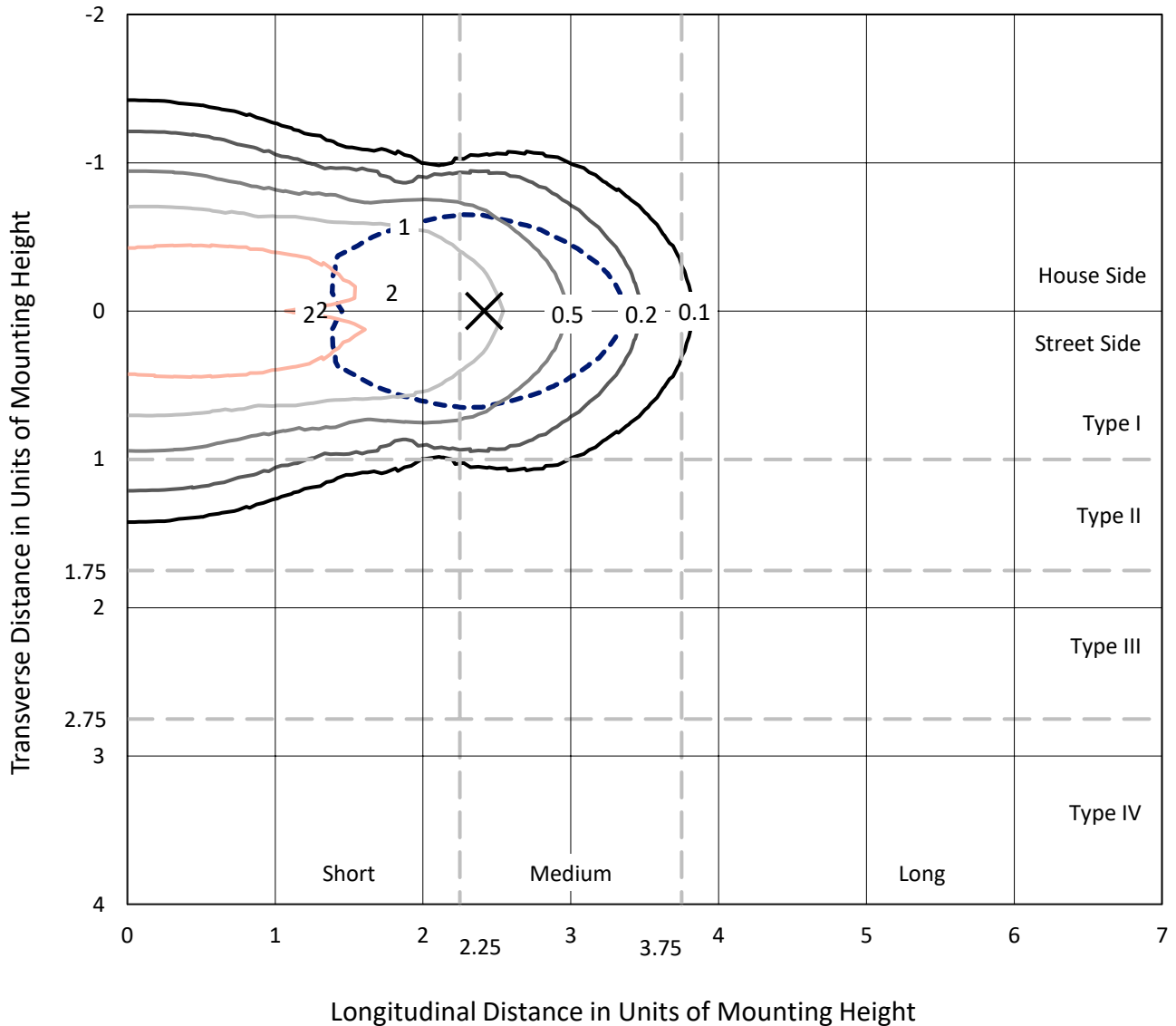
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

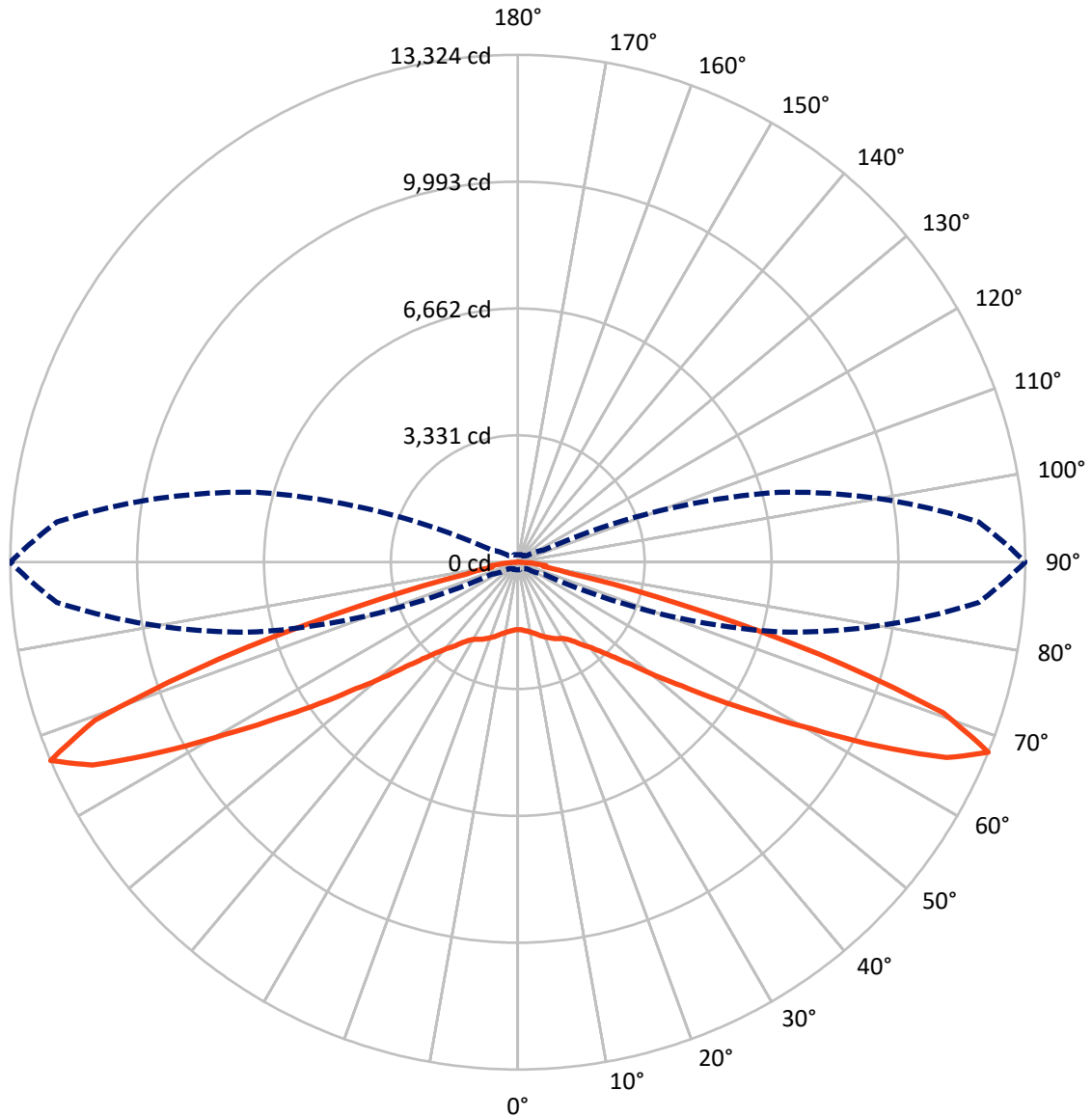
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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
<b>House Side</b>	Lumens	5009.0	0.0	5009.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5009.0	0.0	5009.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10018.0	0.0	10018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	1.8
10°-20°	565.7	5.6
20°-30°	946.9	9.5
30°-40°	1282.8	12.8
40°-50°	1624.8	16.2
50°-60°	2029.8	20.3
60°-70°	2386.0	23.8
70°-80°	912.7	9.1
80°-90°	92.5	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°	10018.0	100.0
0°-180°	10018.0	100.0

**Coefficient of Utilization**



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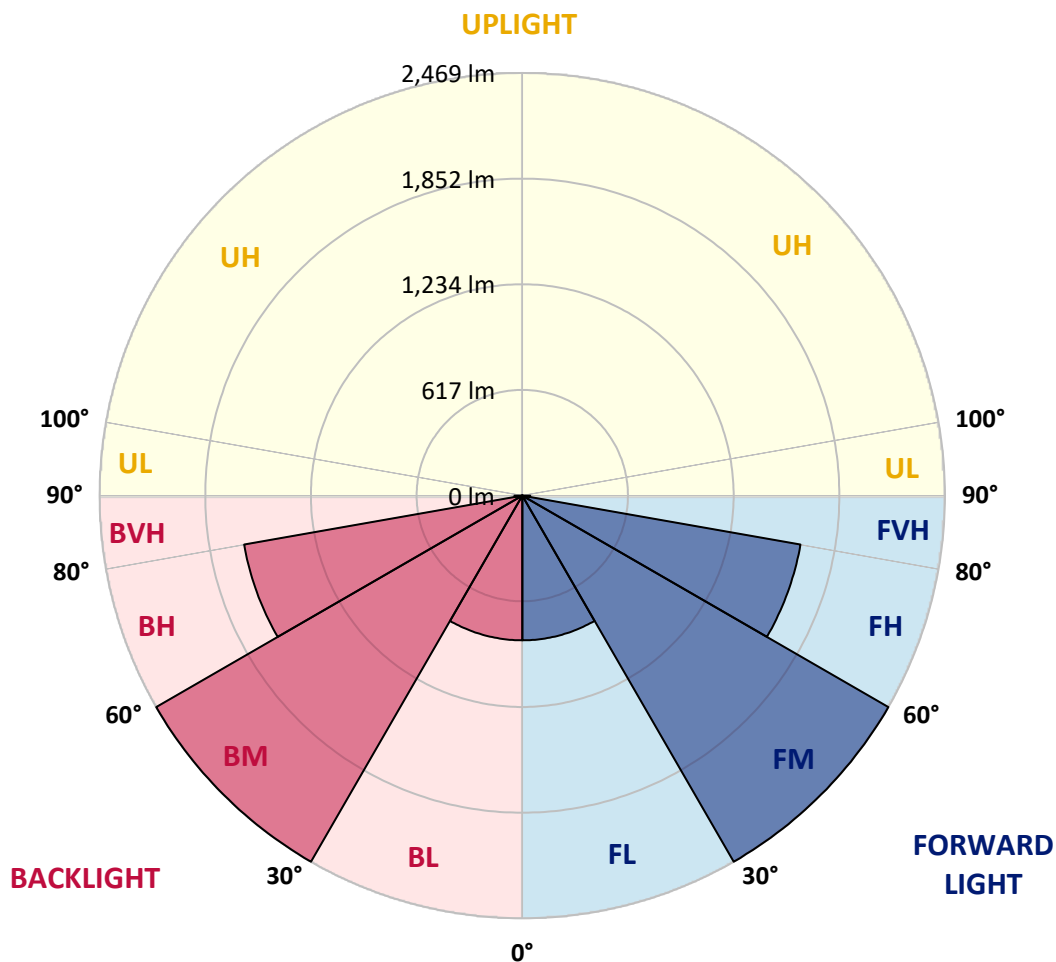
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.7	8.4			
FM	(30°-60°)	2468.7	24.6			
FH	(60°-80°)	1649.4	16.5			G1/1800
FVH	(80°-90°)	46.2	0.5			G1/100
BL	(0°-30°)	844.7	8.4	B2/1000		
BM	(30°-60°)	2468.7	24.6	B2/2500		
BH	(60°-80°)	1649.4	16.5	B3/2500		G3/2500
BVH	(80°-90°)	46.2	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°	1773.5	1773.5	1773.5	1773.5	1773.5	1773.5	1773.5	1773.5	1773.5	1773.5	1773.5
2.5°	1796.2	1795.1	1795.7	1795.1	1796.8	1795.7	1789.0	1783.5	1779.0	1779.6	1777.9
5°	1834.5	1835.1	1835.6	1832.9	1836.7	1834.5	1824.0	1815.1	1806.2	1802.9	1801.8
7.5°	1866.1	1868.9	1870.6	1873.4	1880.0	1880.0	1874.5	1861.7	1842.3	1831.2	1830.6
10°	1897.8	1900.0	1905.0	1913.8	1924.9	1935.5	1933.3	1916.1	1891.1	1872.2	1867.8
12.5°	1908.9	1911.6	1928.3	1953.8	1978.8	1999.3	1999.3	1985.4	1953.2	1924.4	1916.1
15°	1870.0	1875.0	1905.0	1959.3	2024.8	2069.7	2079.7	2060.3	2025.9	1981.5	1971.5
17.5°	1792.9	1805.1	1848.9	1929.4	2038.1	2131.3	2160.2	2150.7	2106.3	2049.8	2038.1
20°	1710.3	1723.6	1770.2	1876.7	2027.0	2167.4	2251.1	2253.3	2198.4	2116.3	2099.1
22.5°	1619.3	1629.3	1689.2	1814.0	1993.7	2175.7	2329.3	2367.6	2293.3	2182.9	2158.5
25°	1517.2	1528.3	1591.0	1725.8	1931.0	2166.3	2400.9	2485.2	2392.6	2253.9	2222.8
27.5°	1419.6	1424.0	1491.1	1628.2	1848.4	2141.8	2453.6	2593.4	2502.4	2312.7	2273.3
30°	1325.8	1336.4	1395.7	1531.1	1753.5	2094.1	2499.1	2716.6	2620.6	2374.3	2323.8
32.5°	1226.5	1239.3	1303.6	1440.7	1658.7	2022.6	2526.8	2851.4	2785.3	2474.1	2420.3
35°	1131.1	1139.4	1204.3	1337.5	1566.0	1939.4	2531.8	3003.4	2997.8	2625.6	2554.0
37.5°	1033.5	1045.7	1111.1	1238.7	1467.8	1851.2	2506.9	3164.8	3254.1	2835.8	2758.7
40°	939.7	950.3	1014.6	1143.3	1356.3	1743.5	2447.5	3312.3	3553.1	3052.2	2942.9
42.5°	837.7	840.4	910.9	1041.8	1247.1	1618.7	2362.1	3443.8	3886.5	3342.3	3206.4
45°	721.7	728.9	794.4	923.1	1121.7	1478.9	2246.1	3552.5	4309.2	3744.5	3559.2
47.5°	605.8	611.9	671.8	798.8	984.7	1318.6	2067.5	3648.0	4743.0	4255.4	4012.4
50°	492.6	495.9	544.8	657.4	830.4	1150.0	1846.2	3678.5	5233.4	4978.8	4668.7
52.5°	389.4	394.4	431.6	519.8	665.7	950.8	1607.1	3603.0	5805.9	5836.4	5399.3
55°	315.6	317.3	345.0	410.0	520.3	742.2	1318.6	3392.8	6421.6	6935.3	6377.8
57.5°	271.8	272.9	288.5	324.5	400.5	559.7	1022.9	2995.0	6974.7	8222.9	7506.2
60°	246.9	247.4	256.3	277.4	317.3	429.4	732.8	2433.6	7520.6	9655.8	8908.5
62.5°	231.3	231.3	237.4	249.1	268.5	329.5	530.9	1755.7	7894.5	11109.7	10637.1
65°	216.3	216.3	220.8	229.1	239.6	269.6	392.2	1145.0	7885.0	12168.7	12375.7
67.5°	199.2	199.2	202.5	210.8	216.9	231.9	302.9	750.0	7082.9	12145.4	13324.3
70°	178.6	178.6	183.1	190.3	195.3	204.7	239.1	513.1	5203.4	10370.3	11849.8
72.5°	158.1	158.7	161.4	168.6	172.5	178.1	198.6	359.5	3192.0	7061.3	8285.6
75°	135.4	136.5	139.2	146.5	149.8	152.0	167.5	256.3	1614.8	3807.2	4334.7
77.5°	109.3	111.5	113.2	120.9	123.2	126.5	138.1	185.3	709.0	1368.0	1380.2
80°	79.9	82.7	87.6	94.9	96.5	98.7	105.4	131.5	321.2	624.6	678.4
82.5°	58.8	62.7	56.6	66.0	66.0	63.2	74.3	88.2	147.6	618.5	740.0
85°	32.2	32.7	29.4	33.8	36.1	35.5	39.4	43.3	71.6	412.7	425.5
87.5°	7.8	8.3	8.9	10.5	12.8	12.8	13.9	12.2	23.3	133.7	76.6
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)