

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: P650775

Luminaire Tested: **GALN-SA3C-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18512.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

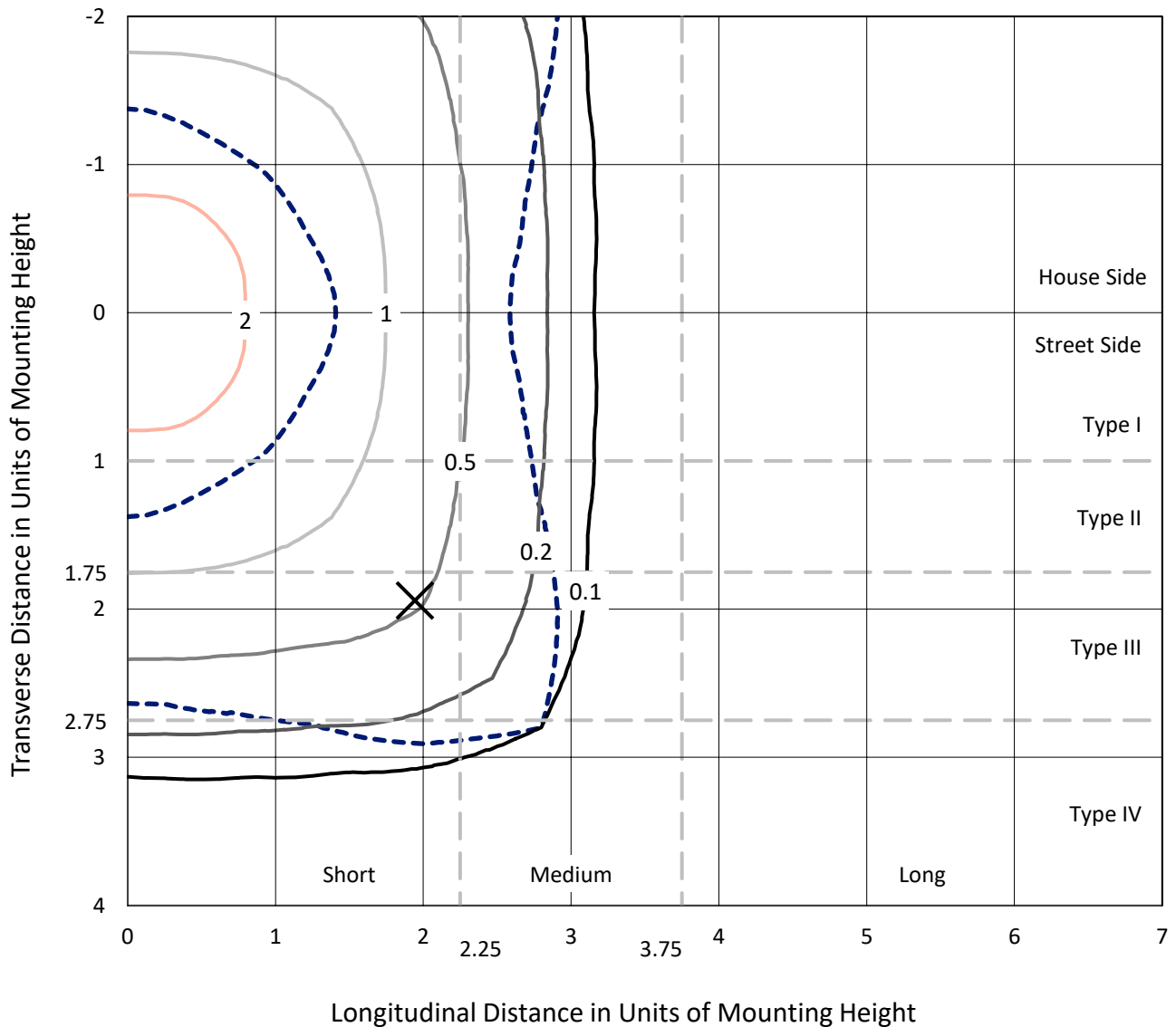
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

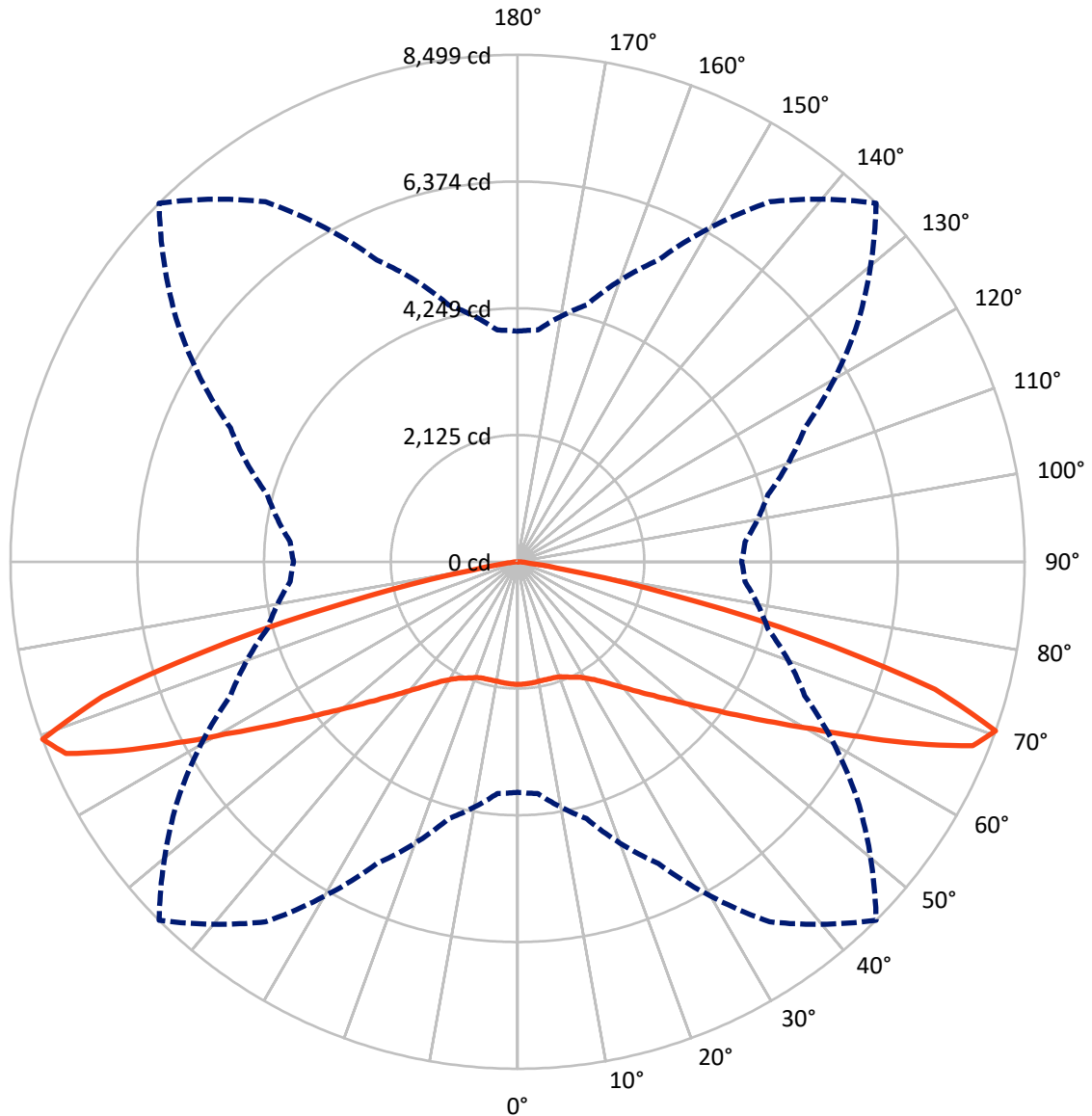
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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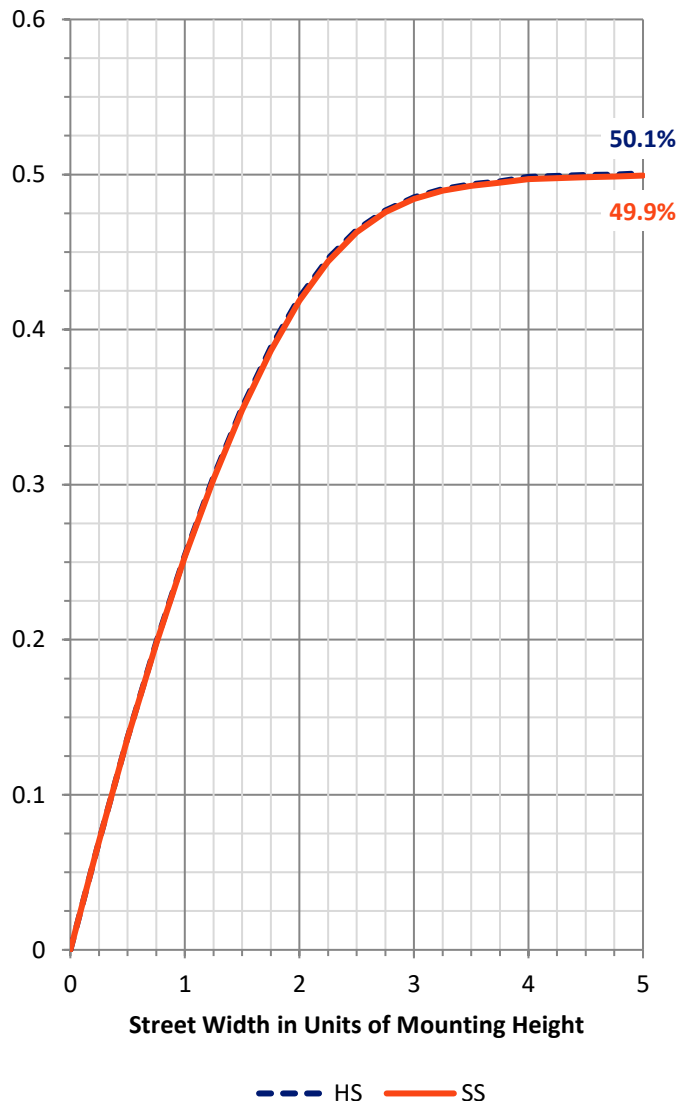
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9256.0	0.0	9256.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9256.0	0.0	9256.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18512.1	0.0	18512.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.1
10°-20°	572.0	3.1
20°-30°	978.3	5.3
30°-40°	1552.8	8.4
40°-50°	2505.2	13.5
50°-60°	4075.9	22.0
60°-70°	5908.6	31.9
70°-80°	2620.8	14.2
80°-90°	103.4	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°	18512.1	100.0
0°-180°	18512.1	100.0

Coefficient of Utilization



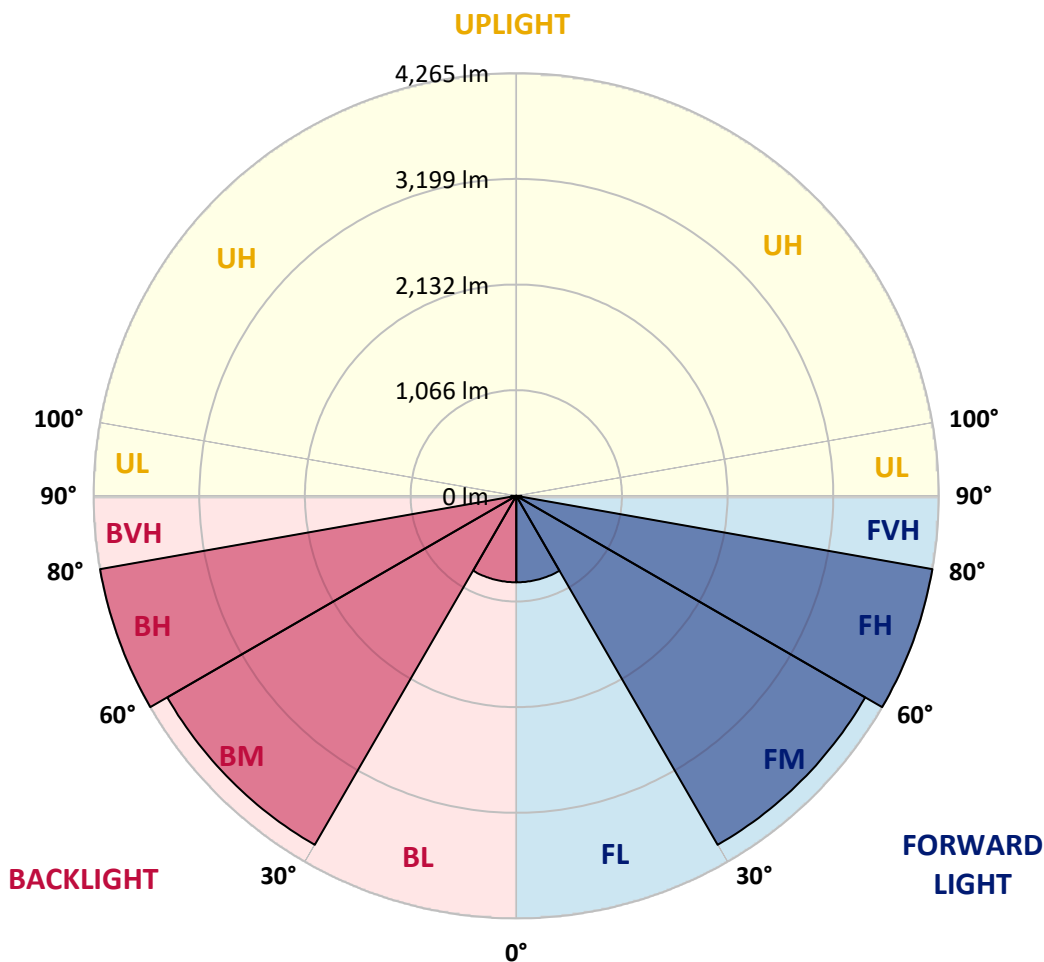
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.7	4.7			
FM (30°-60°)	4067.0	22.0			
FH (60°-80°)	4264.7	23.0			G2/5000
FVH (80°-90°)	51.7	0.3			G1/100
BL (0°-30°)	872.7	4.7	B2/1000		
BM (30°-60°)	4067.0	22.0	B3/5000		
BH (60°-80°)	4264.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	51.7	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°	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7
2.5°	2055.7	2057.6	2054.7	2052.7	2051.8	2051.8	2050.8	2051.8	2057.6	2058.6	2055.7
5°	2049.9	2051.8	2050.8	2048.8	2047.8	2047.8	2046.9	2045.9	2050.8	2052.7	2051.8
7.5°	2042.0	2043.0	2042.0	2041.0	2042.0	2041.0	2038.1	2036.1	2040.1	2040.1	2039.1
10°	2028.3	2030.3	2029.3	2030.3	2032.3	2032.3	2028.3	2024.5	2025.5	2023.4	2023.4
12.5°	2011.8	2014.7	2015.7	2019.6	2024.5	2030.3	2021.5	2012.8	2010.8	2009.8	2008.8
15°	2001.1	2003.9	2007.9	2011.8	2020.6	2033.2	2020.6	2006.9	2003.0	1999.1	1997.1
17.5°	1998.1	2002.0	2007.9	2013.7	2025.5	2038.1	2027.4	2013.7	2003.9	1998.1	1996.2
20°	2006.0	2008.8	2017.6	2028.3	2045.0	2057.6	2046.9	2032.3	2017.6	2008.8	2006.0
22.5°	2021.5	2026.4	2037.2	2056.7	2080.0	2098.6	2084.0	2059.6	2036.1	2024.5	2020.6
25°	2055.7	2059.6	2072.3	2098.6	2126.0	2143.5	2127.9	2099.6	2067.4	2051.8	2046.9
27.5°	2107.4	2113.3	2126.9	2158.1	2180.5	2190.3	2179.6	2160.1	2136.6	2120.1	2116.2
30°	2180.5	2187.4	2207.9	2241.0	2255.6	2261.5	2256.7	2244.0	2227.4	2209.8	2205.9
32.5°	2279.1	2283.0	2306.4	2337.6	2351.3	2353.3	2347.4	2341.5	2314.3	2285.0	2283.0
35°	2389.4	2396.2	2424.4	2461.5	2474.2	2475.2	2463.5	2454.7	2422.5	2399.1	2399.1
37.5°	2535.7	2538.6	2566.0	2607.9	2621.6	2617.6	2611.8	2604.0	2569.8	2539.6	2540.6
40°	2707.4	2713.2	2736.7	2785.5	2785.5	2780.6	2784.5	2778.7	2744.5	2715.3	2716.2
42.5°	2911.3	2914.2	2942.6	2994.2	2990.3	2980.6	2984.5	2976.7	2955.2	2922.1	2910.4
45°	3128.9	3140.6	3189.4	3239.1	3231.3	3200.1	3215.7	3213.8	3194.3	3144.5	3147.4
47.5°	3391.3	3410.8	3457.7	3517.2	3508.4	3459.6	3477.2	3488.9	3461.6	3407.0	3397.2
50°	3686.9	3699.6	3768.9	3824.5	3816.7	3765.0	3805.0	3807.0	3738.7	3661.6	3661.6
52.5°	4002.1	4014.8	4108.5	4195.2	4200.1	4125.0	4157.2	4155.3	4044.0	3942.6	3923.1
55°	4355.3	4361.1	4482.1	4609.9	4637.3	4564.0	4568.0	4529.0	4384.6	4266.5	4255.8
57.5°	4720.2	4741.6	4875.3	5041.1	5122.1	5077.3	5056.8	4952.4	4812.9	4677.2	4670.4
60°	5124.0	5125.1	5298.7	5494.8	5658.8	5688.9	5605.1	5465.6	5285.1	5105.5	5097.7
62.5°	5404.1	5446.1	5665.6	5997.3	6290.9	6460.7	6239.2	5946.5	5591.4	5301.7	5272.4
65°	5461.6	5490.0	5824.6	6386.6	6986.6	7352.4	6840.3	6217.8	5611.9	5225.6	5206.0
67.5°	4996.3	5026.5	5477.3	6339.7	7474.4	8224.6	7230.5	6087.1	5264.6	4786.5	4748.5
70°	3864.6	3898.7	4455.8	5580.7	7366.1	8498.8	6952.5	5309.5	4341.6	3825.5	3756.2
72.5°	2054.7	2180.5	2656.6	3830.3	5978.8	7317.3	5700.7	3874.3	2800.1	2288.9	2197.1
75°	750.3	765.9	1031.2	1698.6	3478.2	5017.7	3611.8	1847.8	1062.4	820.5	778.6
77.5°	310.2	309.3	339.5	513.2	1263.4	2569.8	1409.8	542.4	338.6	313.2	309.3
80°	183.4	183.4	201.9	213.7	332.7	775.7	371.7	242.0	202.9	185.4	188.3
82.5°	81.9	86.8	127.8	134.6	161.0	212.7	179.6	154.2	132.7	91.7	82.9
85°	44.9	39.0	67.3	70.2	77.0	79.1	84.9	83.9	77.0	44.9	45.8
87.5°	8.7	10.8	19.5	14.6	16.6	14.6	19.5	27.3	28.3	15.6	12.7
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)