

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: P651052

Luminaire Tested: **GALN-SA8C-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43003.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

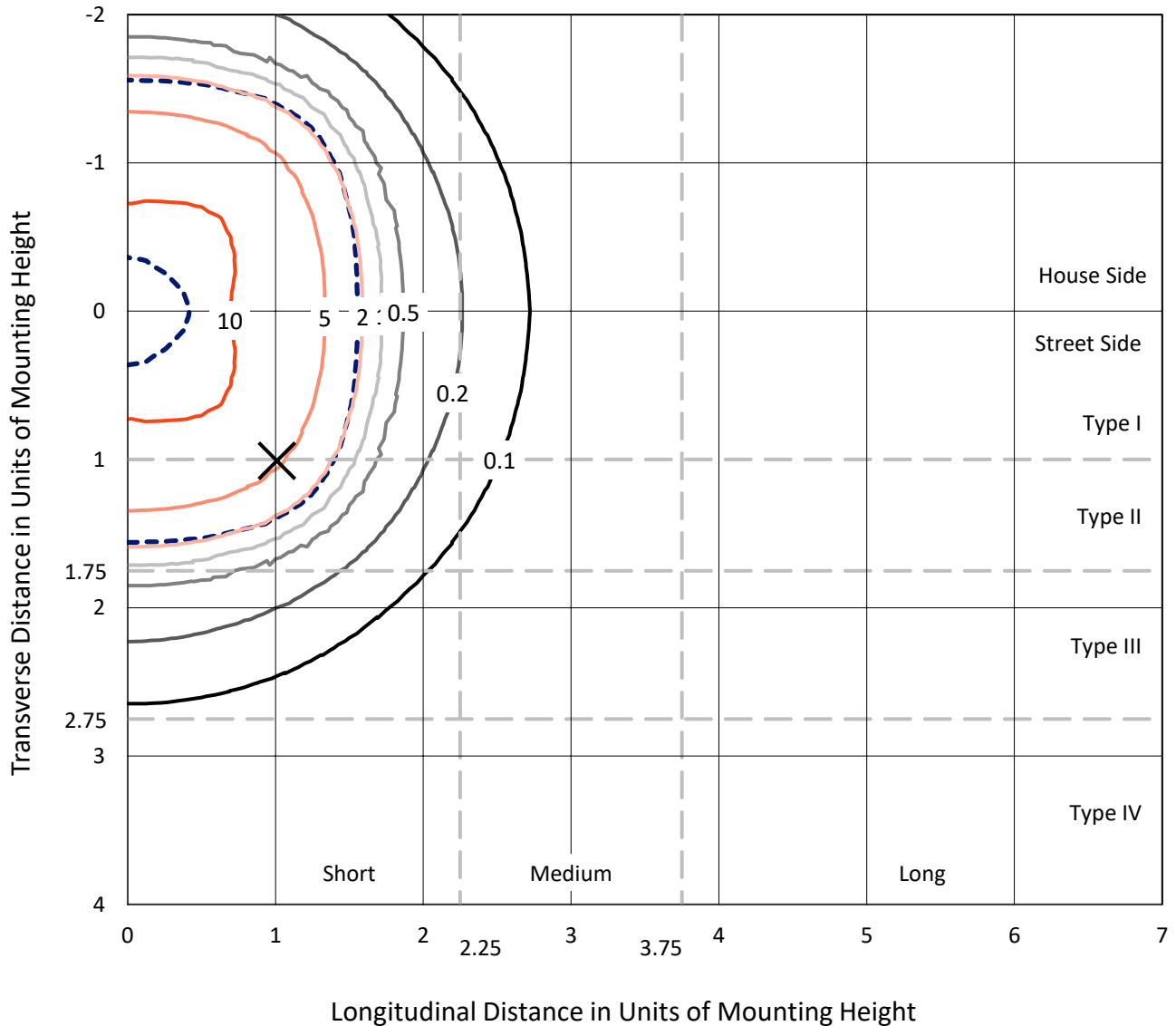
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

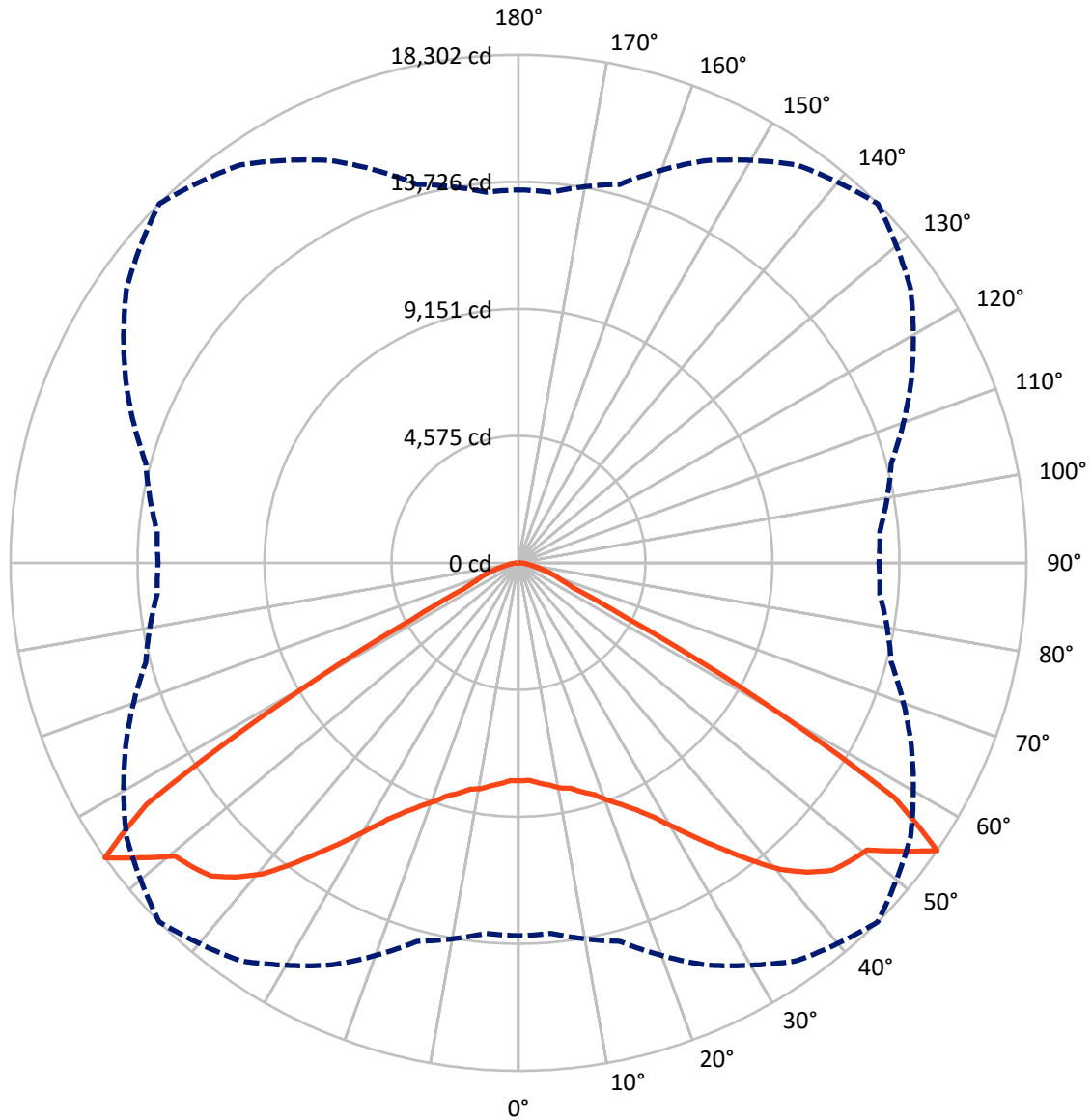
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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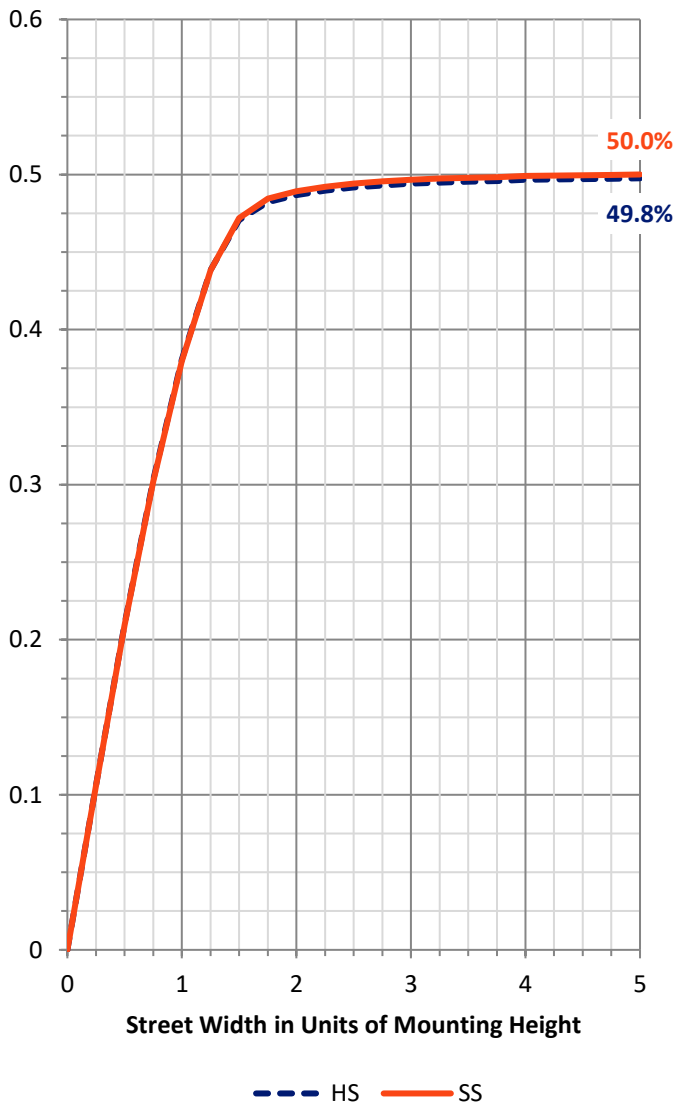
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21501.8	0.0	21501.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21501.8	0.0	21501.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	43003.7	0.0	43003.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.0	1.8
10°-20°	2430.4	5.7
20°-30°	4531.9	10.5
30°-40°	7587.9	17.6
40°-50°	11807.4	27.5
50°-60°	12259.8	28.5
60°-70°	2599.9	6.0
70°-80°	856.2	2.0
80°-90°	163.1	0.4
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°	43003.7	100.0
0°-180°	43003.7	100.0

Coefficient of Utilization

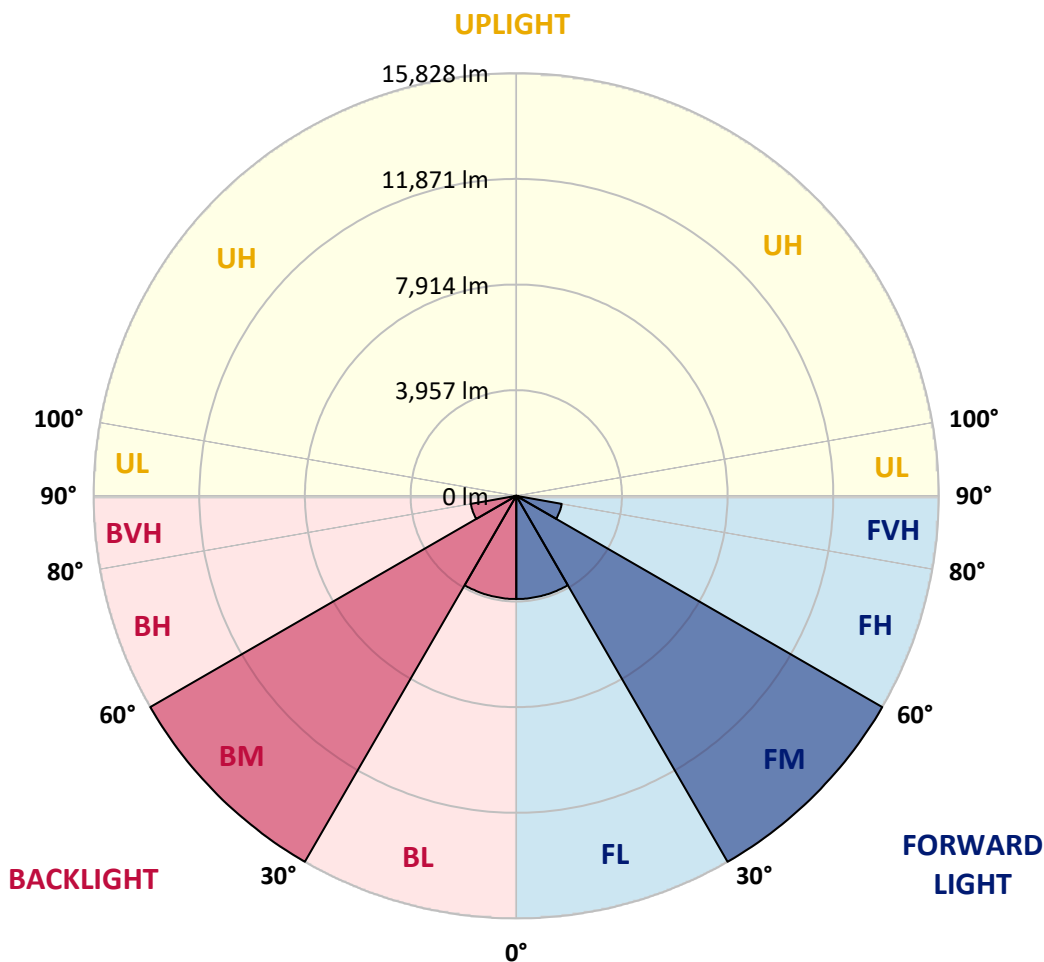


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3864.7	9.0			
FM (30°-60°)	15827.6	36.8			
FH (60°-80°)	1728.1	4.0			G1/1800
FVH (80°-90°)	81.5	0.2			G1/100
BL (0°-30°)	3864.7	9.0	B4/5000		
BM (30°-60°)	15827.6	36.8	B5		
BH (60°-80°)	1728.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	81.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8
2.5°	7945.3	7909.0	7846.6	7893.4	7929.8	7851.8	7883.0	7898.6	7888.2	7846.6	7862.3
5°	8059.7	8038.9	7987.0	8023.3	7976.5	7976.5	7945.3	7903.8	7966.1	7955.8	7981.8
7.5°	8059.7	8033.7	8137.6	8070.1	8090.8	8090.8	8038.9	7997.3	8028.5	7981.8	7955.8
10°	8220.8	8257.2	8210.3	8226.0	8215.6	8252.0	8174.0	8148.0	8122.0	8106.5	8075.3
12.5°	8413.0	8387.0	8402.7	8392.3	8428.7	8335.1	8288.3	8231.2	8278.0	8210.3	8257.2
15°	8568.9	8553.4	8568.9	8610.5	8574.2	8568.9	8485.8	8428.7	8355.9	8371.5	8298.7
17.5°	8782.0	8766.4	8771.6	8808.0	8802.7	8776.8	8714.4	8605.3	8579.4	8537.7	8491.0
20°	9098.9	9073.0	9062.6	9078.2	9104.2	9124.9	9000.2	8958.7	8870.4	8802.7	8724.9
22.5°	9369.2	9358.8	9400.4	9332.8	9390.0	9452.3	9332.8	9312.1	9093.8	9057.4	8974.2
25°	9743.3	9727.8	9701.8	9800.5	9868.0	9862.8	9748.5	9634.2	9467.9	9426.3	9426.3
27.5°	10138.3	10049.9	10185.0	10211.0	10330.5	10366.9	10268.2	10101.9	9946.0	9857.7	9878.5
30°	10631.9	10548.8	10579.9	10767.1	10922.9	11058.1	10808.6	10564.4	10346.2	10190.2	10164.2
32.5°	11125.6	11042.4	11136.0	11317.8	11629.7	11832.3	11588.1	11162.0	10907.3	10678.7	10725.4
35°	11525.7	11588.1	11738.8	12014.2	12336.4	12663.8	12274.0	11946.7	11582.9	11328.3	11364.6
37.5°	12170.1	12362.4	12481.9	12798.8	13256.2	13593.9	13188.6	12762.5	12372.7	12040.2	11925.9
40°	13011.9	13141.8	13277.0	13651.0	14191.5	14529.3	14144.7	13588.7	13204.2	12861.2	12845.6
42.5°	13936.9	14061.6	14201.9	14659.2	14981.3	15236.0	14882.6	14586.4	14160.3	13890.1	13874.5
45°	15012.5	14924.2	15080.1	15381.5	15651.7	15817.9	15589.4	15443.9	15137.2	14887.8	14861.8
47.5°	15729.6	15651.7	15932.3	16202.5	16244.1	16062.3	16109.0	16244.1	15921.9	15511.4	15641.3
50°	16145.3	16145.3	16332.5	16581.8	16504.0	16270.1	16639.0	16649.4	16327.3	15963.5	15963.5
52.5°	15423.1	15584.2	16114.1	16930.0	17189.9	17257.4	17174.2	16820.9	15979.1	15236.0	15199.6
55°	13438.0	13401.7	14118.7	15989.5	17501.6	18301.9	17241.8	15615.4	13905.7	13069.1	12986.0
57.5°	8740.4	8782.0	9852.5	11759.5	14487.7	15979.1	14191.5	11905.0	9852.5	8698.9	8808.0
60°	3933.7	4074.1	4723.6	6147.4	8491.0	9707.0	8511.8	6459.2	4957.4	4302.6	4359.8
62.5°	2260.4	2286.4	2312.4	2743.8	3616.7	4276.7	3757.0	2899.6	2556.6	2442.3	2442.3
65°	1907.1	1891.5	1896.7	1933.0	2026.6	2161.7	2104.6	2026.6	2037.0	2026.6	2011.0
67.5°	1621.3	1642.1	1626.5	1652.5	1657.7	1678.5	1714.8	1746.0	1751.2	1761.6	1751.2
70°	1330.3	1335.5	1345.9	1366.6	1371.8	1387.5	1439.5	1465.4	1481.0	1481.0	1501.8
72.5°	1018.5	1013.3	1023.7	1044.5	1070.5	1075.6	1122.4	1158.8	1179.6	1153.6	1158.8
75°	670.4	675.6	691.1	706.7	743.1	779.4	795.1	831.4	836.6	847.1	821.1
77.5°	400.1	410.5	426.1	457.3	488.5	519.7	556.0	582.0	592.4	582.0	550.9
80°	259.8	259.8	280.6	306.6	343.0	368.9	389.7	410.5	426.1	410.5	400.1
82.5°	161.1	161.1	187.0	218.2	244.2	259.8	291.0	317.0	332.5	322.2	306.6
85°	83.2	88.3	109.2	135.1	155.9	166.3	161.1	145.5	129.9	124.7	114.3
87.5°	26.0	26.0	31.2	31.2	26.0	26.0	31.2	26.0	31.2	31.2	31.2
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)