

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: P647147

Luminaire Tested: **GALN-SA9C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647147
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-SA9C-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 44949.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

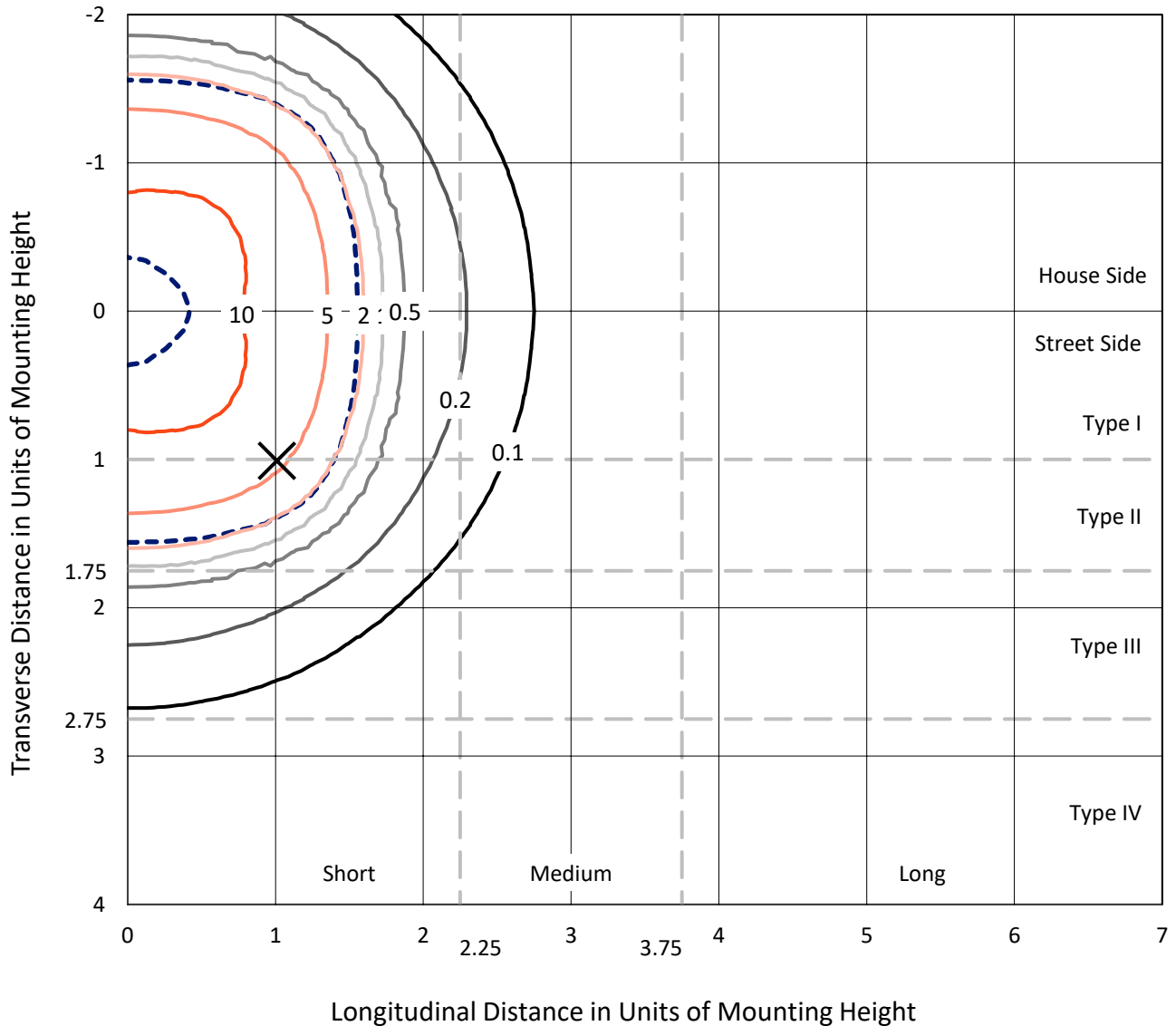
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

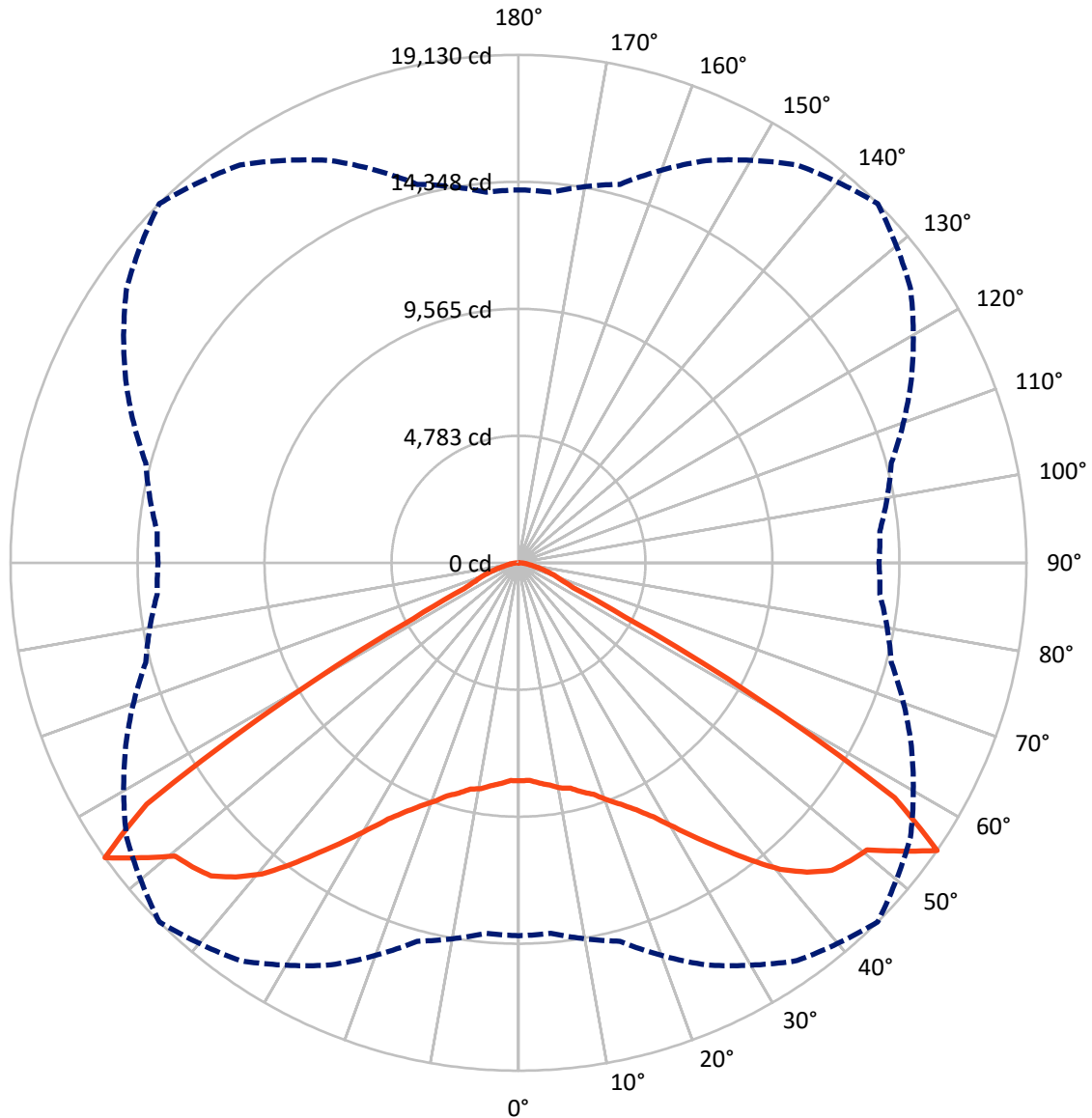
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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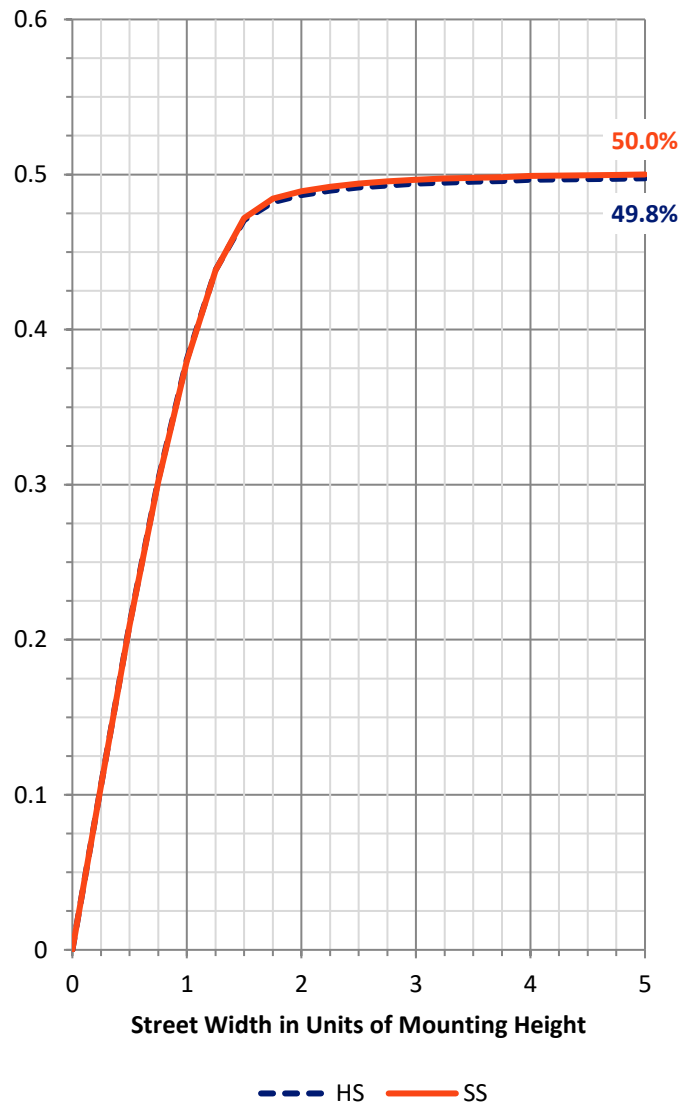
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22474.8	0.0	22474.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22474.8	0.0	22474.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	44949.7	0.0	44949.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.8	1.8
10°-20°	2540.4	5.7
20°-30°	4737.0	10.5
30°-40°	7931.3	17.6
40°-50°	12341.7	27.5
50°-60°	12814.6	28.5
60°-70°	2717.5	6.0
70°-80°	895.0	2.0
80°-90°	170.5	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°	44949.7	100.0
0°-180°	44949.7	100.0

Coefficient of Utilization



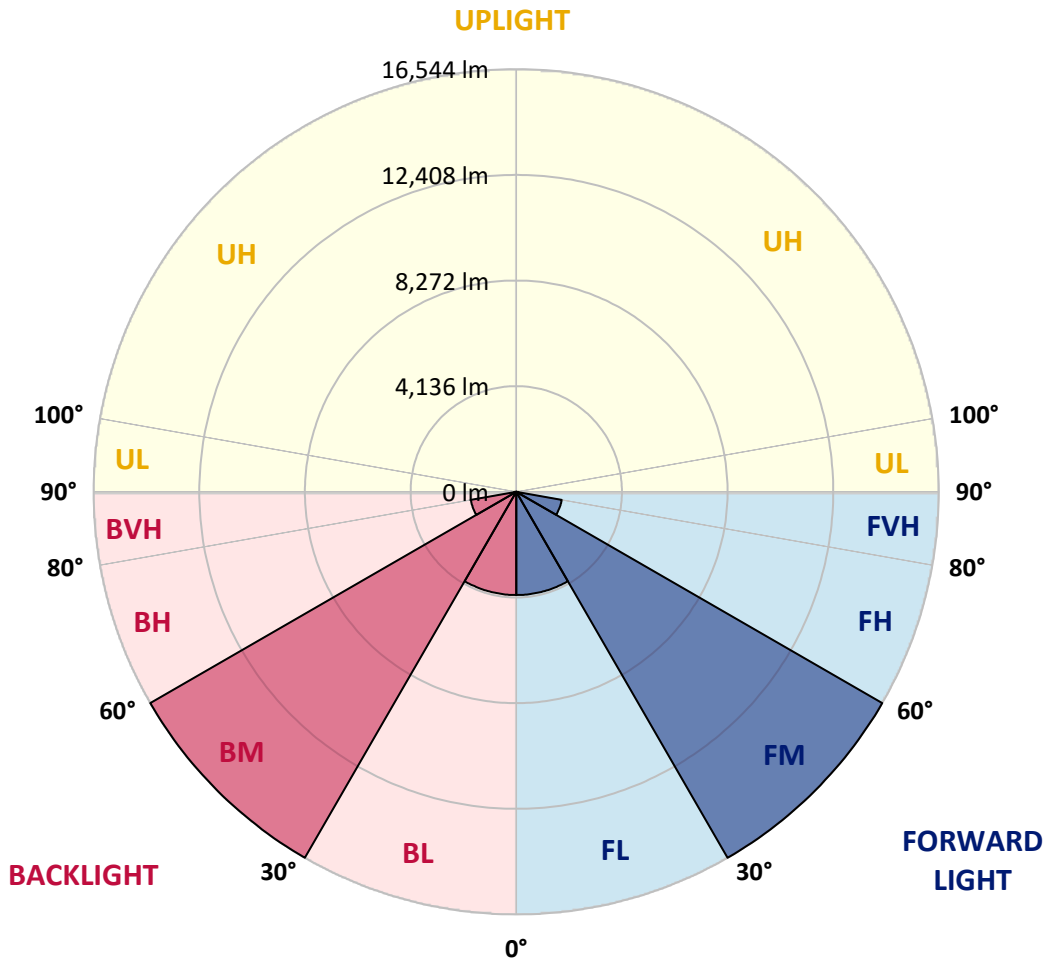
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4039.6	9.0			
FM (30°-60°)	16543.8	36.8			
FH (60°-80°)	1806.3	4.0			G2/5000
FVH (80°-90°)	85.2	0.2			G1/100
BL (0°-30°)	4039.6	9.0	B4/5000		
BM (30°-60°)	16543.8	36.8	B5		
BH (60°-80°)	1806.3	4.0	B3/2500		G2/5000
BVH (80°-90°)	85.2	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8207.2	8207.2	8207.2	8207.2	8207.2	8207.2	8207.2	8207.2	8207.2	8207.2	8207.2
2.5°	8304.9	8266.9	8201.7	8250.6	8288.6	8207.2	8239.7	8256.0	8245.1	8201.7	8218.0
5°	8424.4	8402.7	8348.3	8386.4	8337.5	8337.5	8304.9	8261.4	8326.7	8315.8	8342.9
7.5°	8424.4	8397.3	8505.9	8435.3	8457.0	8457.0	8402.7	8359.2	8391.8	8342.9	8315.8
10°	8592.8	8630.8	8581.9	8598.2	8587.3	8625.4	8543.9	8516.8	8489.6	8473.3	8440.7
12.5°	8793.7	8766.6	8782.9	8772.0	8810.1	8712.3	8663.4	8603.7	8652.5	8581.9	8630.8
15°	8956.7	8940.4	8956.7	9000.1	8962.1	8956.7	8869.8	8810.1	8734.0	8750.3	8674.2
17.5°	9179.4	9163.1	9168.5	9206.6	9201.1	9173.9	9108.8	8994.7	8967.5	8924.1	8875.2
20°	9510.7	9483.5	9472.7	9489.0	9516.2	9537.9	9407.5	9364.1	9271.7	9201.1	9119.7
22.5°	9793.1	9782.3	9825.8	9755.2	9814.9	9880.1	9755.2	9733.4	9505.3	9467.3	9380.3
25°	10184.2	10168.0	10140.8	10244.0	10314.6	10309.1	10189.6	10070.2	9896.3	9852.9	9852.9
27.5°	10597.0	10504.7	10645.9	10673.1	10798.0	10836.0	10732.8	10559.0	10396.0	10303.7	10325.5
30°	11113.0	11026.1	11058.7	11254.3	11417.2	11558.4	11297.8	11042.4	10814.3	10651.4	10624.2
32.5°	11629.0	11542.1	11639.9	11830.0	12155.9	12367.7	12112.5	11667.1	11400.9	11161.9	11210.8
35°	12047.3	12112.5	12270.0	12557.8	12894.6	13236.8	12829.5	12487.2	12107.1	11840.9	11878.9
37.5°	12720.8	12921.8	13046.7	13378.0	13856.0	14209.0	13785.4	13340.0	12932.7	12585.0	12465.5
40°	13600.7	13736.5	13877.7	14268.8	14833.7	15186.8	14784.8	14203.6	13801.7	13443.2	13426.9
42.5°	14567.6	14697.9	14844.6	15322.5	15659.3	15925.4	15556.1	15246.5	14801.1	14518.6	14502.3
45°	15691.9	15599.6	15762.5	16077.5	16360.0	16533.7	16294.8	16142.7	15822.2	15561.5	15534.3
47.5°	16441.4	16360.0	16653.2	16935.7	16979.2	16789.1	16837.9	16979.2	16642.4	16213.3	16349.1
50°	16876.0	16876.0	17071.5	17332.3	17250.7	17006.3	17392.0	17402.8	17066.1	16685.9	16685.9
52.5°	16121.0	16289.4	16843.3	17696.1	17967.7	18038.4	17951.4	17582.1	16702.2	15925.4	15887.4
55°	14046.1	14008.1	14757.7	16713.1	18293.6	19130.1	18022.0	16321.9	14535.0	13660.5	13573.5
57.5°	9136.0	9179.4	10298.3	12291.7	15143.3	16702.2	14833.7	12443.7	10298.3	9092.5	9206.6
60°	4111.7	4258.3	4937.3	6425.6	8875.2	10146.2	8896.9	6751.5	5181.7	4497.4	4557.1
62.5°	2362.8	2389.9	2417.0	2867.9	3780.4	4470.2	3927.1	3030.8	2672.4	2552.8	2552.8
65°	1993.4	1977.1	1982.6	2020.5	2118.3	2259.6	2199.8	2118.3	2129.2	2118.3	2102.0
67.5°	1694.6	1716.4	1700.1	1727.2	1732.7	1754.4	1792.4	1825.0	1830.4	1841.3	1830.4
70°	1390.5	1395.9	1406.8	1428.5	1433.9	1450.3	1504.5	1531.7	1548.0	1548.0	1569.8
72.5°	1064.6	1059.2	1070.0	1091.7	1118.9	1124.3	1173.2	1211.2	1233.0	1205.8	1211.2
75°	700.7	706.1	722.4	738.7	776.7	814.7	831.0	869.1	874.5	885.3	858.2
77.5°	418.2	429.1	445.4	477.9	510.6	543.2	581.1	608.3	619.2	608.3	575.7
80°	271.5	271.5	293.3	320.5	358.5	385.6	407.4	429.1	445.4	429.1	418.2
82.5°	168.3	168.3	195.5	228.1	255.3	271.5	304.2	331.4	347.7	336.8	320.5
85°	86.9	92.3	114.1	141.3	162.9	173.8	168.3	152.1	135.8	130.4	119.5
87.5°	27.2	27.2	32.6	32.6	27.2	27.2	32.6	27.2	32.6	32.6	32.6
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)