

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: P647143

Luminaire Tested: **GALN-SA9C-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29949.7 lumens
Efficiency: N/A
Efficacy: 62.3 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

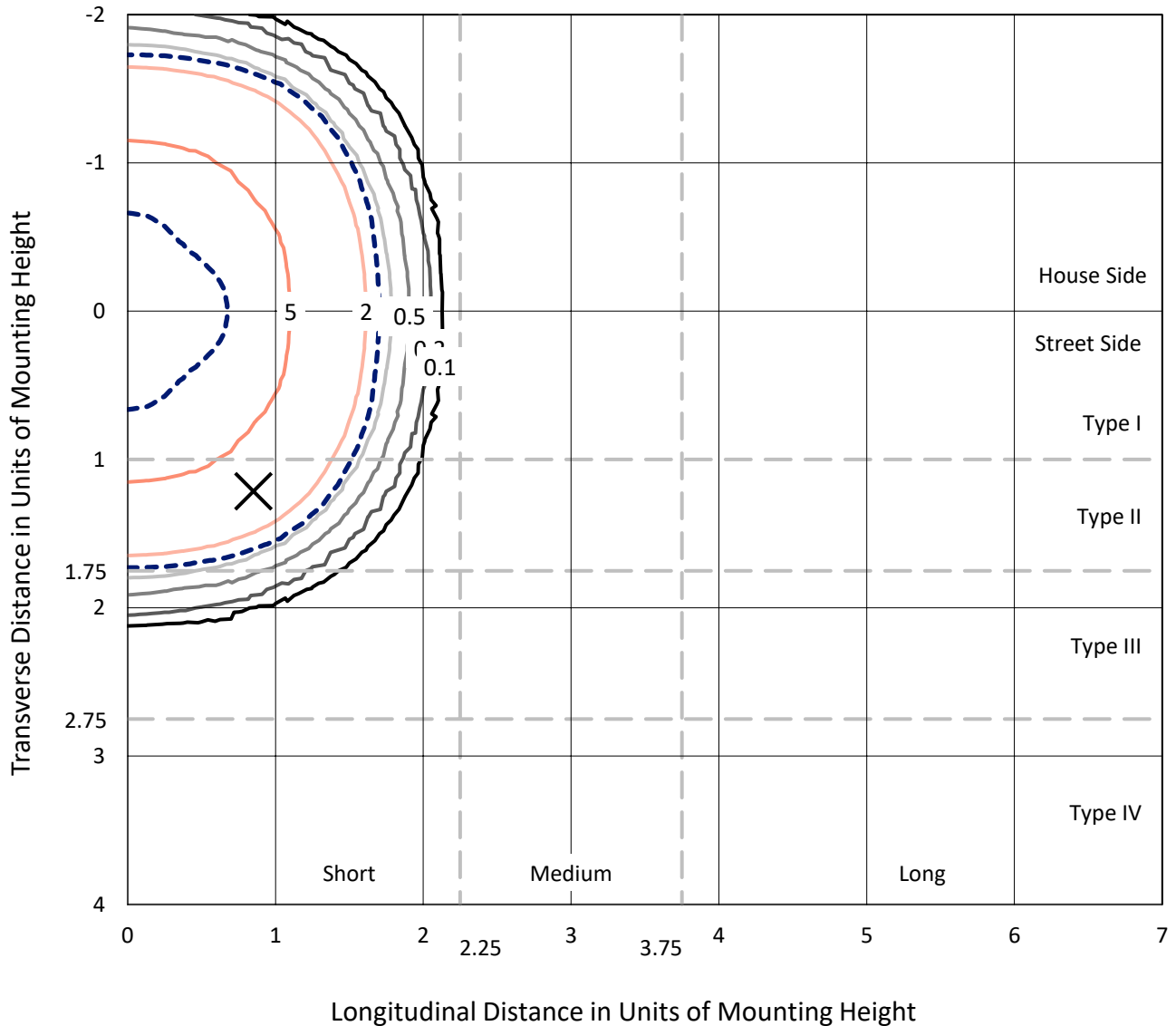
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

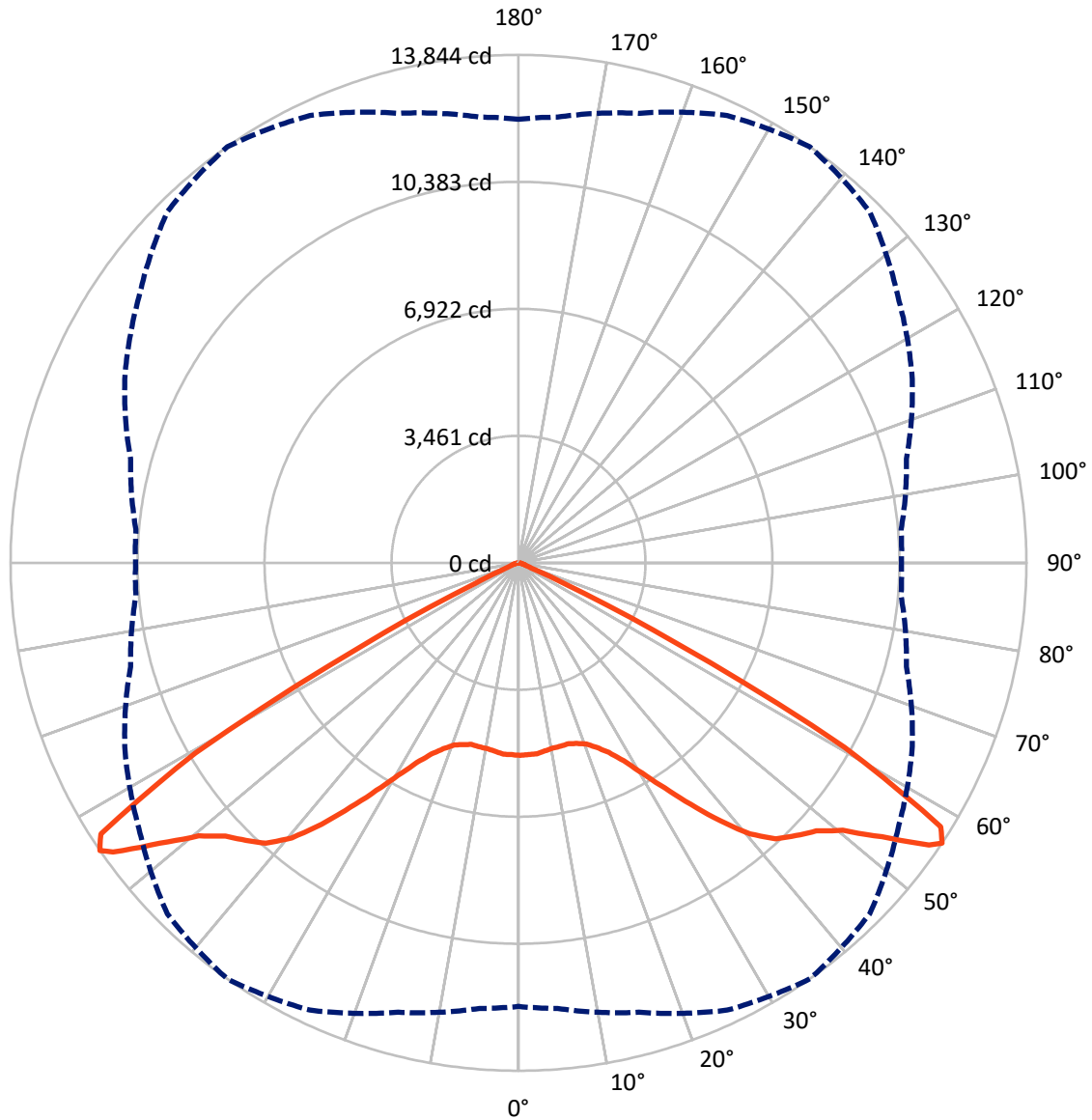
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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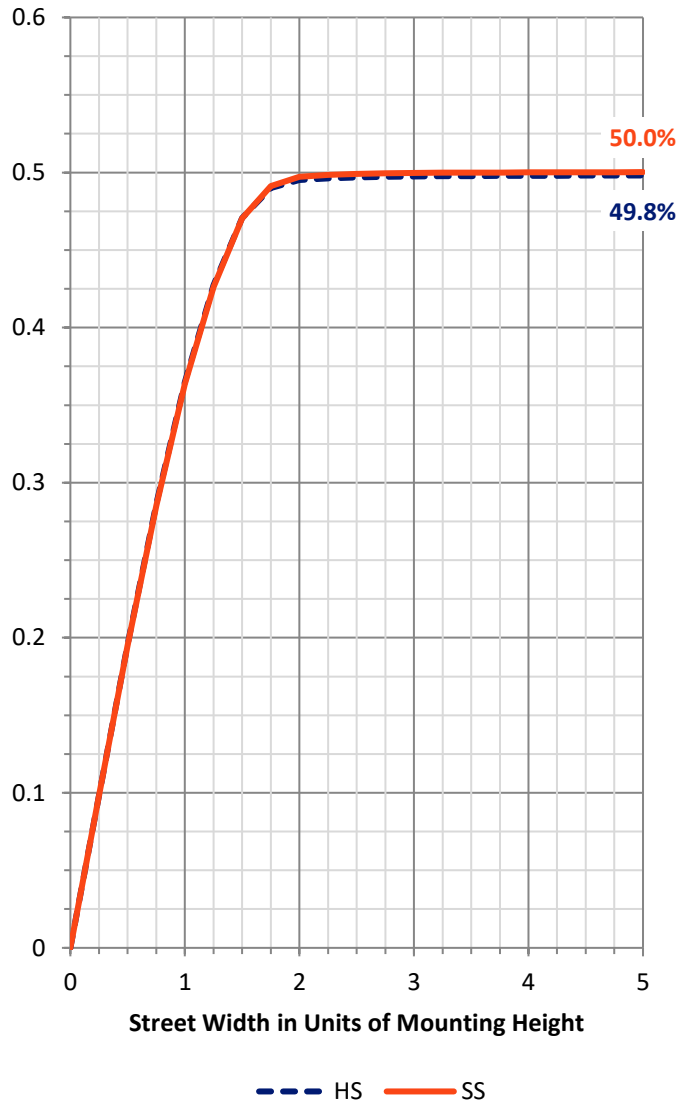
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14974.9	0.0	14974.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14974.9	0.0	14974.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29949.7	0.0	29949.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.6
10°-20°	1440.0	4.8
20°-30°	2607.5	8.7
30°-40°	4835.3	16.1
40°-50°	7936.9	26.5
50°-60°	10225.1	34.1
60°-70°	2253.5	7.5
70°-80°	130.7	0.4
80°-90°	27.5	0.1
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°	29949.7	100.0
0°-180°	29949.7	100.0

Coefficient of Utilization

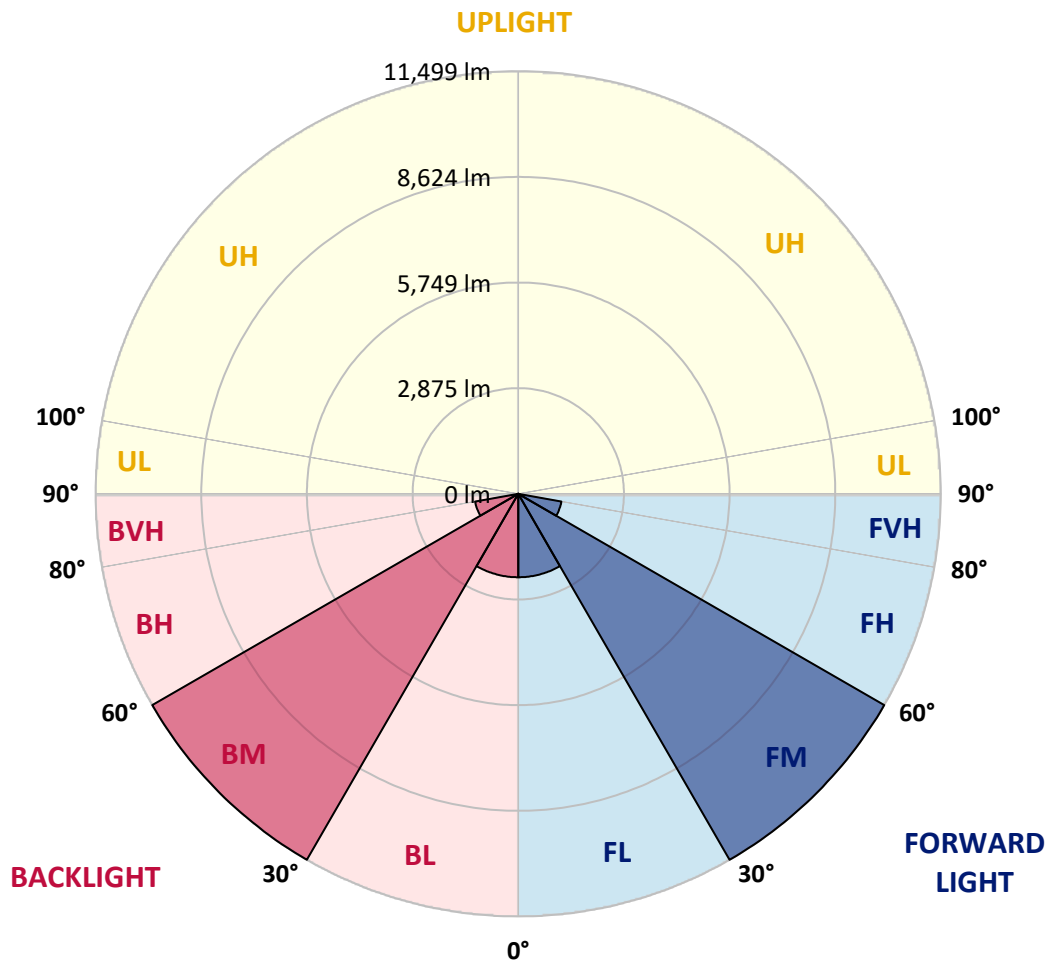


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.4	7.6			
FM (30°-60°)	11498.6	38.4			
FH (60°-80°)	1192.1	4.0			G1/1800
FVH (80°-90°)	13.8	0.0			G1/100
BL (0°-30°)	2270.4	7.6	B3/2500		
BM (30°-60°)	11498.6	38.4	B5		
BH (60°-80°)	1192.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	13.8	0.0			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°	5247.8	5247.8	5247.8	5247.8	5247.8	5247.8	5247.8	5247.8	5247.8	5247.8	5247.8
2.5°	5258.7	5258.7	5264.1	5269.5	5231.5	5215.2	5220.7	5209.8	5204.4	5220.7	5220.7
5°	5242.4	5242.4	5226.1	5231.5	5231.5	5182.8	5182.8	5193.6	5193.6	5161.0	5150.2
7.5°	5199.0	5188.2	5166.5	5193.6	5177.3	5177.3	5139.3	5112.1	5101.3	5123.0	5101.3
10°	5106.7	5112.1	5133.9	5144.7	5133.9	5166.5	5101.3	5063.3	5025.4	5009.1	5009.1
12.5°	5063.3	5095.9	5063.3	5090.4	5128.4	5101.3	5063.3	5036.2	4981.9	4960.2	4960.2
15°	5057.9	5079.6	5090.4	5128.4	5112.1	5123.0	5047.1	5014.5	4933.1	4895.1	4878.8
17.5°	5052.5	5079.6	5095.9	5166.5	5177.3	5182.8	5123.0	5025.4	4954.8	4916.8	4878.8
20°	5112.1	5123.0	5155.6	5226.1	5269.5	5345.5	5237.0	5133.9	4981.9	4938.5	4922.3
22.5°	5188.2	5242.4	5275.0	5350.9	5464.9	5530.0	5388.9	5258.7	5101.3	5047.1	4981.9
25°	5432.4	5421.5	5475.8	5633.1	5725.4	5774.2	5660.3	5470.4	5264.1	5199.0	5209.8
27.5°	5736.3	5747.1	5795.9	5969.6	6105.3	6181.2	6045.6	5795.9	5595.2	5486.6	5475.8
30°	6132.5	6121.6	6175.8	6409.2	6653.4	6767.4	6528.6	6235.6	6040.1	5899.0	5931.6
32.5°	6550.3	6555.7	6707.6	6919.4	7315.5	7538.0	7152.7	6794.5	6501.5	6403.8	6354.9
35°	7169.0	7196.1	7315.5	7641.1	8080.7	8368.3	7945.0	7516.3	7179.8	7000.7	7022.4
37.5°	7934.1	7907.0	8107.8	8460.5	8921.9	9133.5	8775.3	8287.0	7945.0	7825.6	7901.6
40°	8748.2	8775.3	8878.4	9198.6	9714.2	9855.3	9323.5	9057.5	8759.0	8699.4	8791.6
42.5°	9562.2	9545.9	9622.0	9909.6	10284.0	10186.4	9871.6	9714.2	9502.6	9383.2	9508.0
45°	10159.2	10132.1	10273.2	10468.6	10604.2	10419.7	10278.6	10224.3	10115.8	9985.5	10099.5
47.5°	10739.9	10718.2	10853.9	10908.1	10919.0	10674.8	10701.9	10799.6	10528.2	10256.9	10387.1
50°	11233.8	11195.7	11364.0	11483.4	11456.2	11065.5	11163.2	11065.5	10642.2	10322.1	10273.2
52.5°	12058.7	12074.9	12254.0	12471.1	12405.9	12080.4	11939.3	11494.2	10951.5	10663.9	10495.6
55°	12579.6	12498.2	12807.5	13496.8	13572.8	13236.3	12612.2	11955.5	11141.5	10788.7	10745.3
56°	12091.2	12194.3	12682.7	13453.3	13844.1	13534.8	12628.5	11841.5	10946.1	10468.6	10436.0
57.5°	10848.5	10794.1	11456.2	12509.1	13572.8	13442.5	12183.5	11027.5	9985.5	9448.3	9383.2
60°	6751.1	6908.5	7489.2	8791.6	10213.5	10278.6	9030.4	8037.3	6821.7	6344.1	6458.0
62.5°	2642.9	2507.2	2870.9	3842.3	4819.1	5036.2	4564.0	3793.4	3115.1	2642.9	2610.4
65°	613.2	597.0	672.9	928.0	1297.0	1503.3	1427.3	1025.7	754.3	716.4	662.1
67.5°	347.3	347.3	331.1	331.1	363.6	385.3	369.0	363.6	379.9	396.2	390.7
70°	244.2	238.8	227.9	233.3	222.5	222.5	238.8	265.9	287.6	287.6	293.1
72.5°	146.5	146.5	146.5	162.8	162.8	162.8	179.1	200.8	206.2	200.8	195.4
75°	65.1	65.1	76.0	92.2	103.1	108.5	124.8	135.7	146.5	135.7	124.8
77.5°	16.3	16.3	27.2	38.0	48.9	59.7	81.4	97.7	103.1	97.7	81.4
80°	5.4	5.4	10.9	27.2	48.9	59.7	81.4	86.8	92.2	81.4	65.1
82.5°	5.4	5.4	10.9	27.2	38.0	48.9	65.1	76.0	81.4	70.5	65.1
85°	0.0	5.4	10.9	21.7	32.6	43.4	43.4	32.6	27.2	16.3	21.7
87.5°	0.0	0.0	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)