

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: P652590

Luminaire Tested: **GALN-SA9B-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652590
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-SA9B-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45500.6 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 364
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

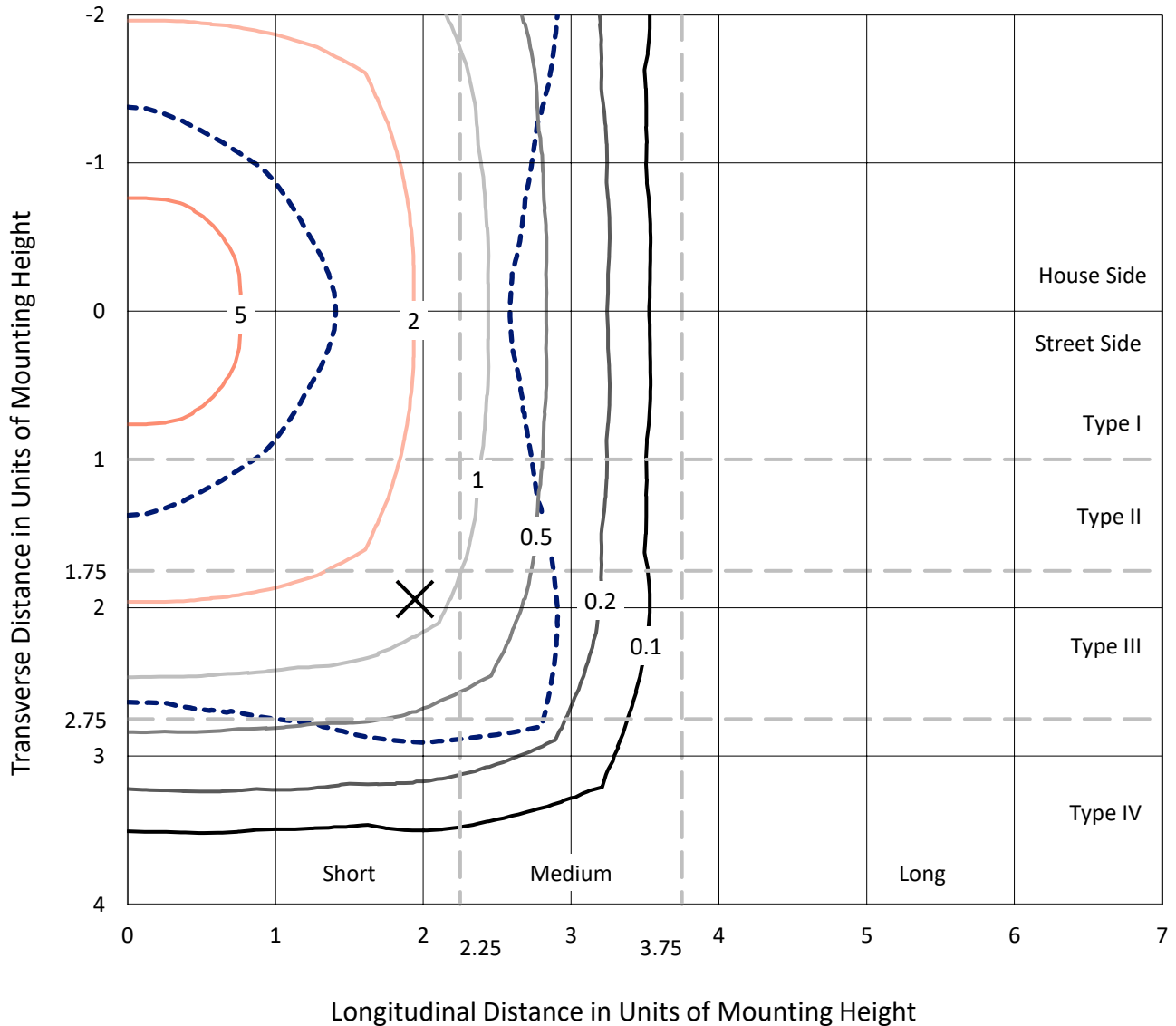




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Iso-Footcandle Lines of Horizontal Illumination

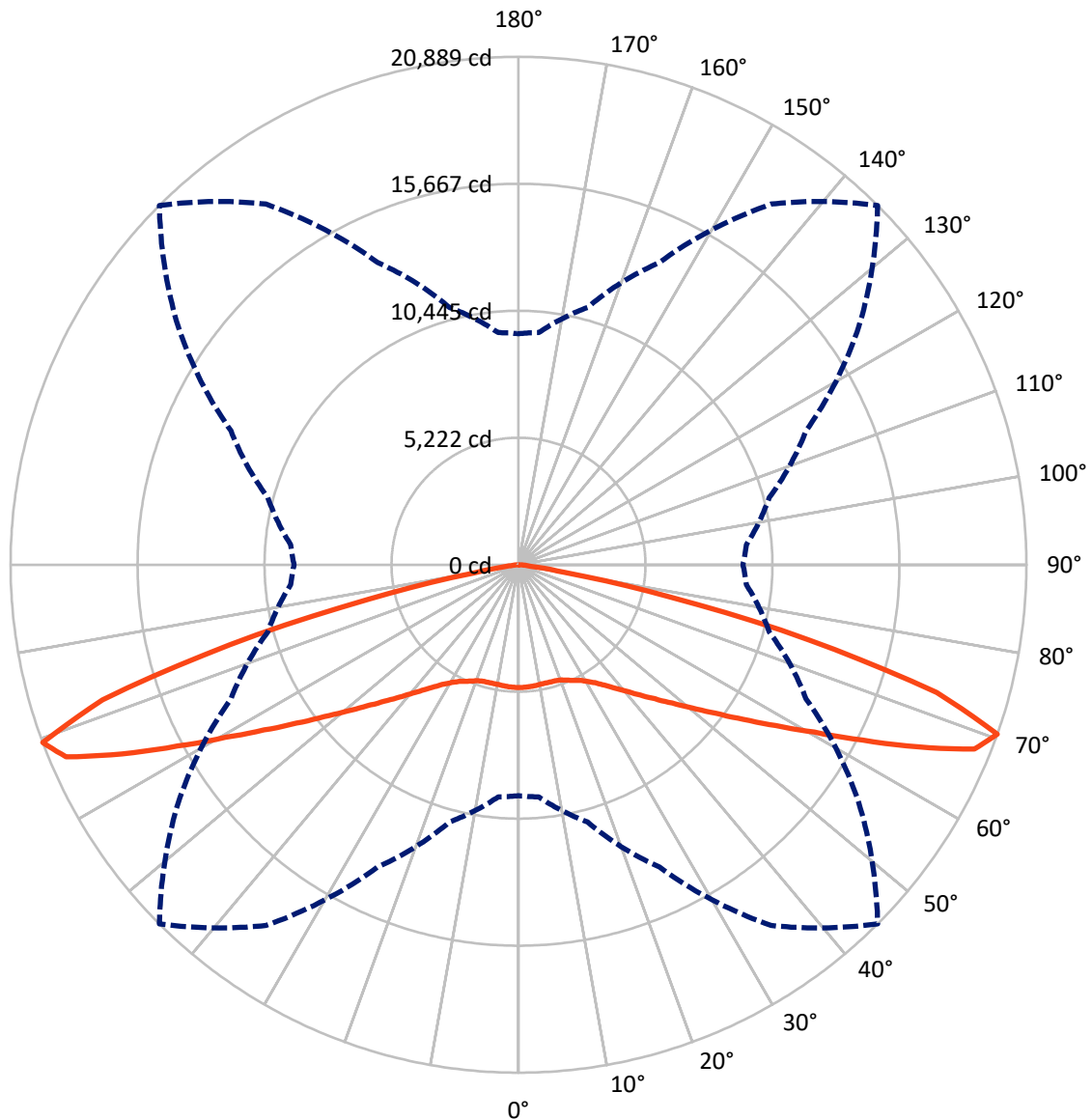
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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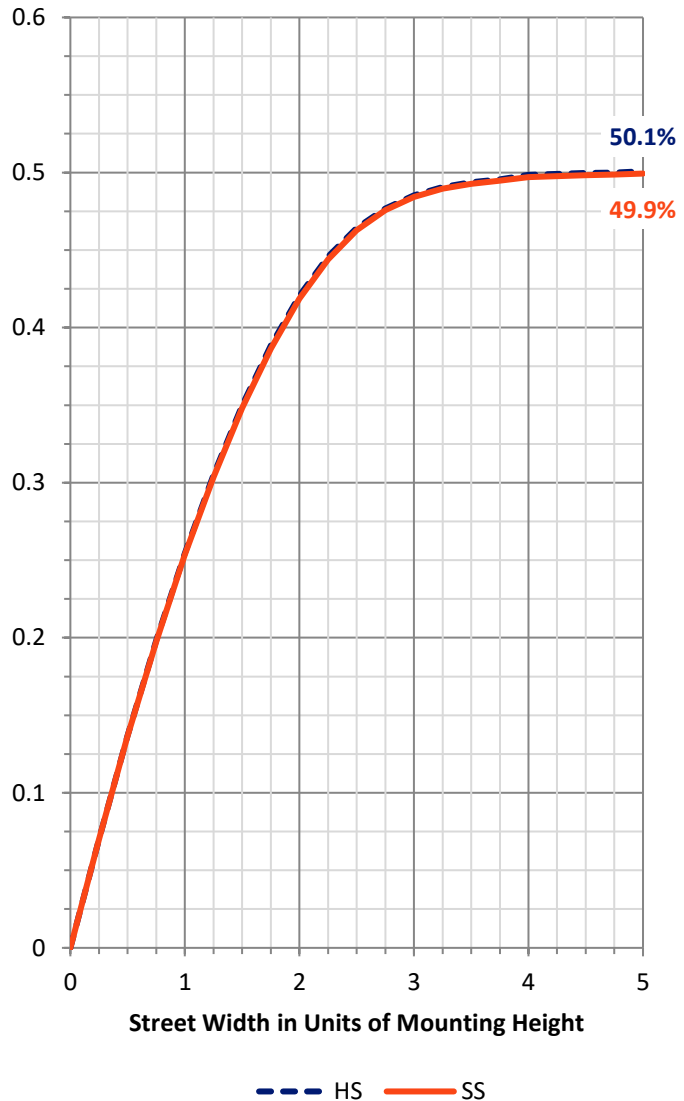
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22750.3	0.0	22750.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22750.3	0.0	22750.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	45500.6	0.0	45500.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.1	1.1
10°-20°	1406.0	3.1
20°-30°	2404.7	5.3
30°-40°	3816.7	8.4
40°-50°	6157.4	13.5
50°-60°	10018.2	22.0
60°-70°	14522.7	31.9
70°-80°	6441.8	14.2
80°-90°	254.1	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°	45500.6	100.0
0°-180°	45500.6	100.0

Coefficient of Utilization

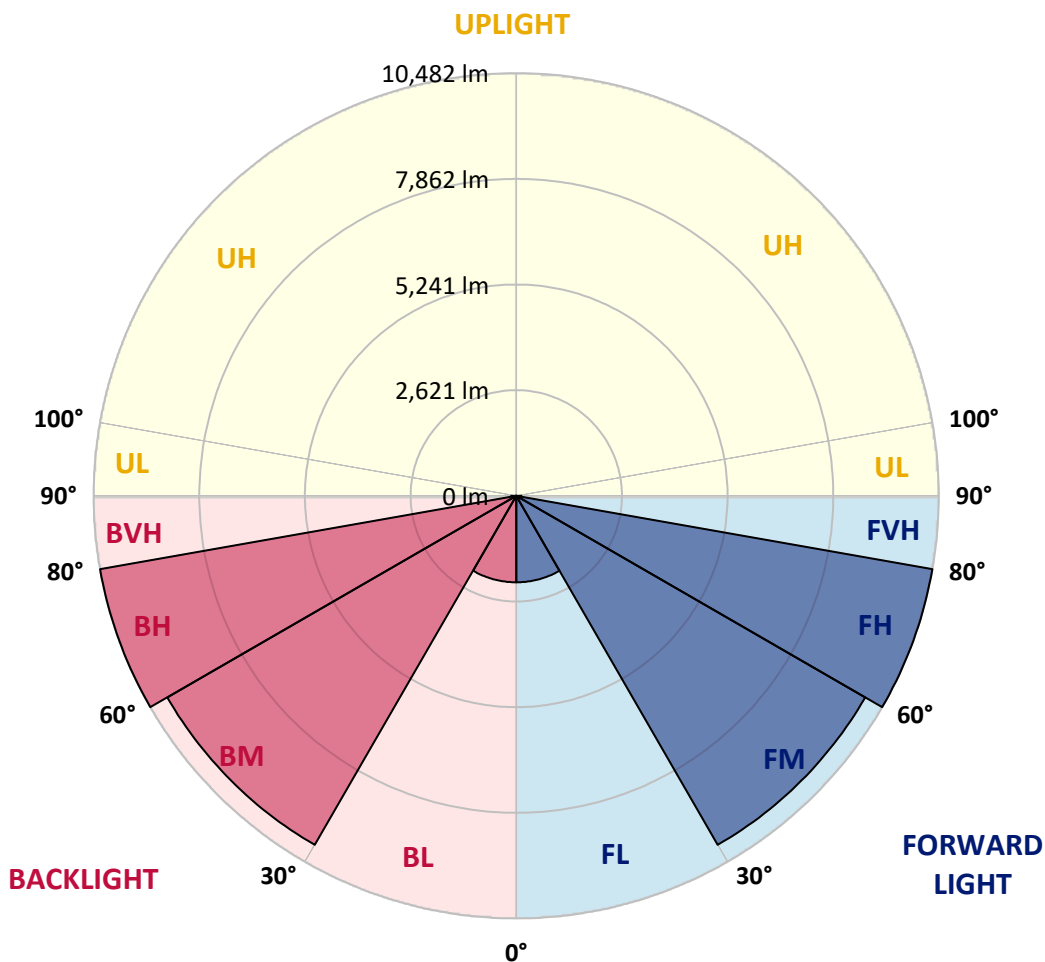


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.9	4.7			
FM (30°-60°)	9996.1	22.0			
FH (60°-80°)	10482.3	23.0			G4/12000
FVH (80°-90°)	127.0	0.3			G2/225
BL (0°-30°)	2144.9	4.7	B3/2500		
BM (30°-60°)	9996.1	22.0	B5		
BH (60°-80°)	10482.3	23.0	B5		G4/12000
BVH (80°-90°)	127.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5052.6	5052.6	5052.6	5052.6	5052.6	5052.6	5052.6	5052.6	5052.6	5052.6	5052.6
2.5°	5052.6	5057.4	5050.2	5045.4	5043.1	5043.1	5040.6	5043.1	5057.4	5059.8	5052.6
5°	5038.3	5043.1	5040.6	5035.8	5033.5	5033.5	5031.0	5028.7	5040.6	5045.4	5043.1
7.5°	5019.1	5021.4	5019.1	5016.6	5019.1	5016.6	5009.5	5004.7	5014.3	5014.3	5011.9
10°	4985.4	4990.2	4987.9	4990.2	4995.0	4995.0	4985.4	4975.9	4978.3	4973.5	4973.5
12.5°	4944.7	4951.9	4954.3	4963.9	4975.9	4990.2	4968.7	4947.1	4942.3	4939.9	4937.5
15°	4918.3	4925.6	4935.2	4944.7	4966.3	4997.5	4966.3	4932.7	4923.1	4913.5	4908.7
17.5°	4911.2	4920.8	4935.2	4949.5	4978.3	5009.5	4983.1	4949.5	4925.6	4911.2	4906.3
20°	4930.4	4937.5	4959.1	4985.4	5026.2	5057.4	5031.0	4995.0	4959.1	4937.5	4930.4
22.5°	4968.7	4980.7	5007.1	5055.0	5112.6	5158.1	5122.2	5062.2	5004.7	4975.9	4966.3
25°	5052.6	5062.2	5093.4	5158.1	5225.3	5268.4	5230.1	5160.5	5081.4	5043.1	5031.0
27.5°	5179.7	5194.1	5227.7	5304.4	5359.6	5383.6	5357.2	5309.2	5251.6	5210.9	5201.3
30°	5359.6	5376.3	5426.7	5508.2	5544.2	5558.6	5546.6	5515.4	5474.7	5431.5	5421.9
32.5°	5601.8	5611.4	5668.9	5745.6	5779.3	5784.1	5769.6	5755.2	5688.1	5616.2	5611.4
35°	5872.8	5889.5	5959.1	6050.2	6081.4	6083.8	6055.0	6033.4	5954.3	5896.8	5896.8
37.5°	6232.5	6239.6	6306.8	6409.9	6443.5	6433.9	6419.5	6400.3	6316.4	6242.1	6244.4
40°	6654.5	6668.9	6726.5	6846.3	6846.3	6834.4	6844.0	6829.6	6745.7	6673.7	6676.1
42.5°	7155.7	7162.9	7232.4	7359.5	7349.9	7326.0	7335.5	7316.4	7263.6	7182.1	7153.3
45°	7690.4	7719.2	7839.1	7961.4	7942.2	7865.5	7903.9	7899.1	7851.2	7728.8	7736.0
47.5°	8335.5	8383.5	8498.6	8644.9	8623.3	8503.4	8546.6	8575.3	8508.1	8373.9	8349.9
50°	9062.1	9093.3	9263.5	9400.3	9381.0	9253.9	9352.3	9357.1	9189.2	8999.8	8999.8
52.5°	9836.7	9867.9	10098.1	10311.5	10323.4	10138.8	10218.0	10213.2	9939.8	9690.4	9642.4
55°	10704.8	10719.1	11016.5	11330.6	11397.8	11217.9	11227.5	11131.6	10776.7	10486.5	10460.2
57.5°	11601.6	11654.4	11982.9	12390.5	12589.6	12479.3	12429.0	12172.4	11829.4	11496.1	11479.3
60°	12594.4	12596.8	13023.6	13505.6	13908.5	13982.9	13776.6	13433.7	12990.1	12548.8	12529.6
62.5°	13282.7	13385.8	13925.3	14740.6	15462.5	15879.7	15335.4	14615.9	13743.0	13030.9	12958.9
65°	13424.1	13493.7	14316.2	15697.4	17172.2	18071.5	16812.5	15282.6	13793.4	12843.8	12795.8
67.5°	12280.3	12354.6	13462.5	15582.3	18371.2	20215.3	17771.8	14961.2	12939.7	11764.7	11671.1
70°	9498.6	9582.5	10951.8	13716.7	18105.0	20889.2	17088.3	13050.0	10671.2	9402.6	9232.4
72.5°	5050.2	5359.6	6529.8	9414.7	14695.0	17985.1	14011.6	9522.6	6882.3	5625.8	5400.3
75°	1844.1	1882.4	2534.7	4175.0	8548.9	12333.0	8877.5	4541.8	2611.5	2016.7	1913.6
77.5°	762.5	760.2	834.5	1261.3	3105.5	6316.4	3465.2	1333.3	832.1	769.8	760.2
80°	450.9	450.9	496.4	525.2	817.7	1906.5	913.7	594.7	498.8	455.7	462.8
82.5°	201.4	213.4	314.1	330.9	395.7	522.8	441.3	378.9	326.1	225.4	203.9
85°	110.3	96.0	165.4	172.7	189.5	194.3	208.7	206.2	189.5	110.3	112.7
87.5°	21.6	26.4	47.9	36.0	40.8	36.0	47.9	67.1	69.6	38.3	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)