

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: P651984

Luminaire Tested: **GALN-SA7A-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23644.7 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

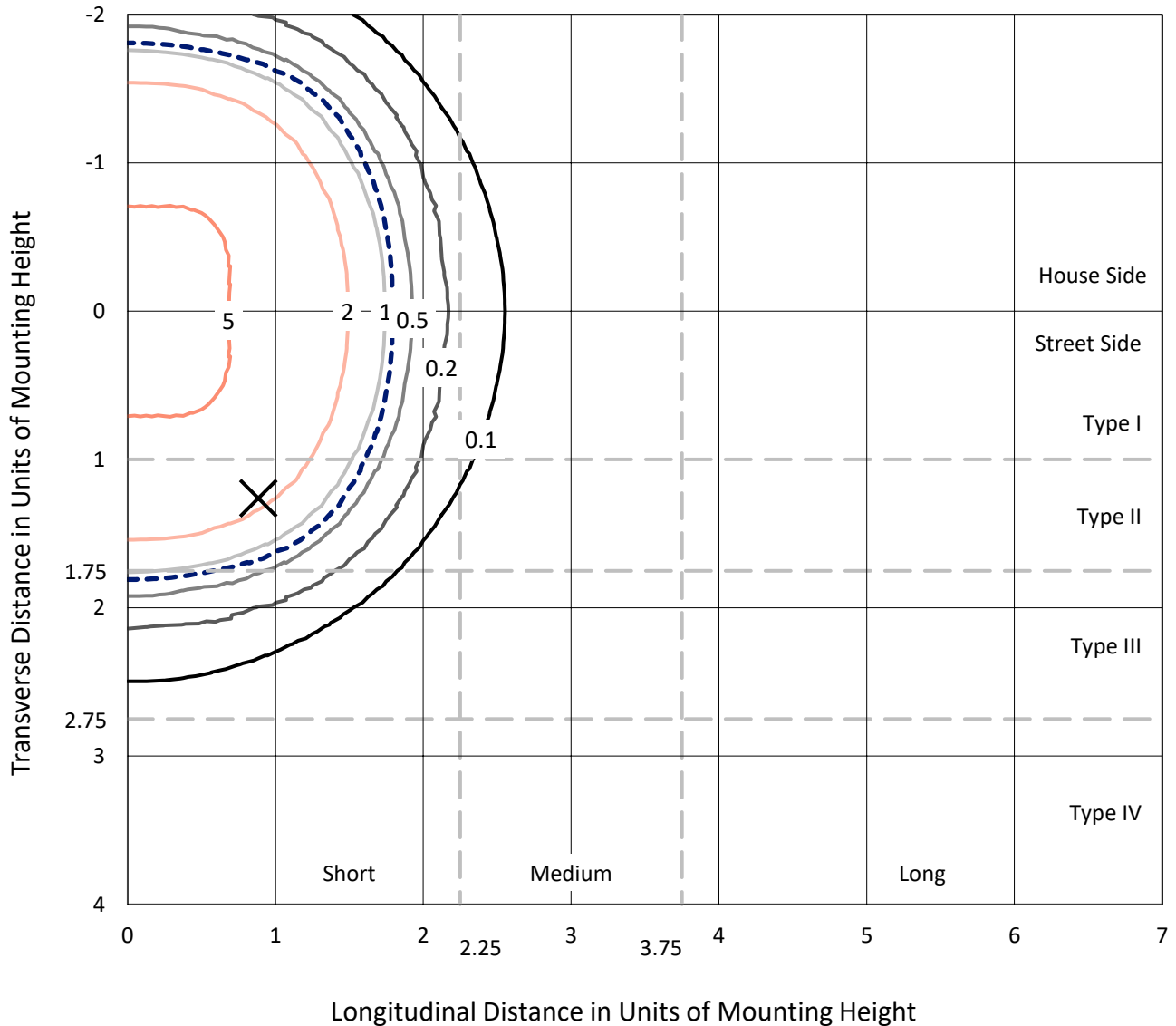
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

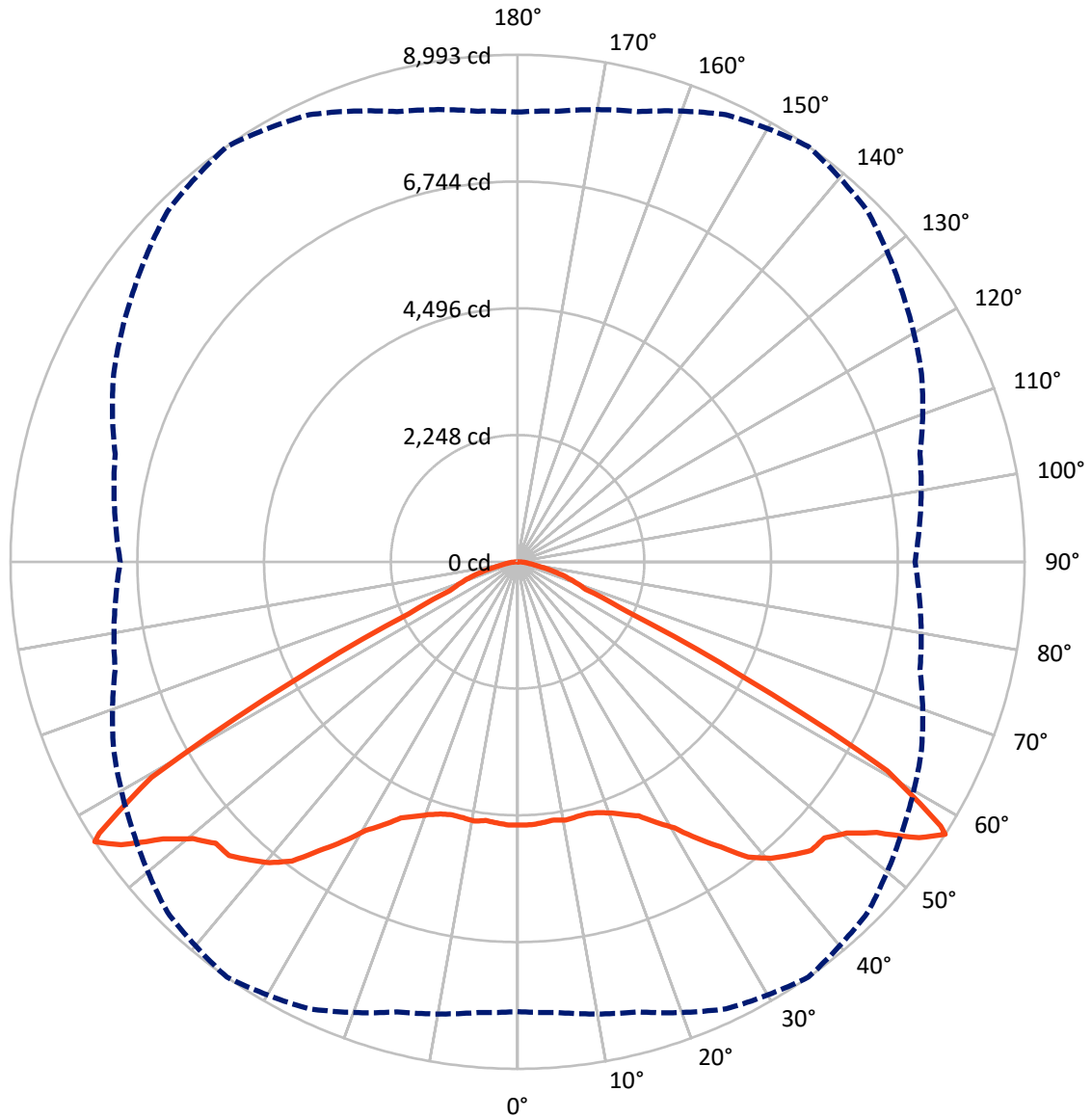
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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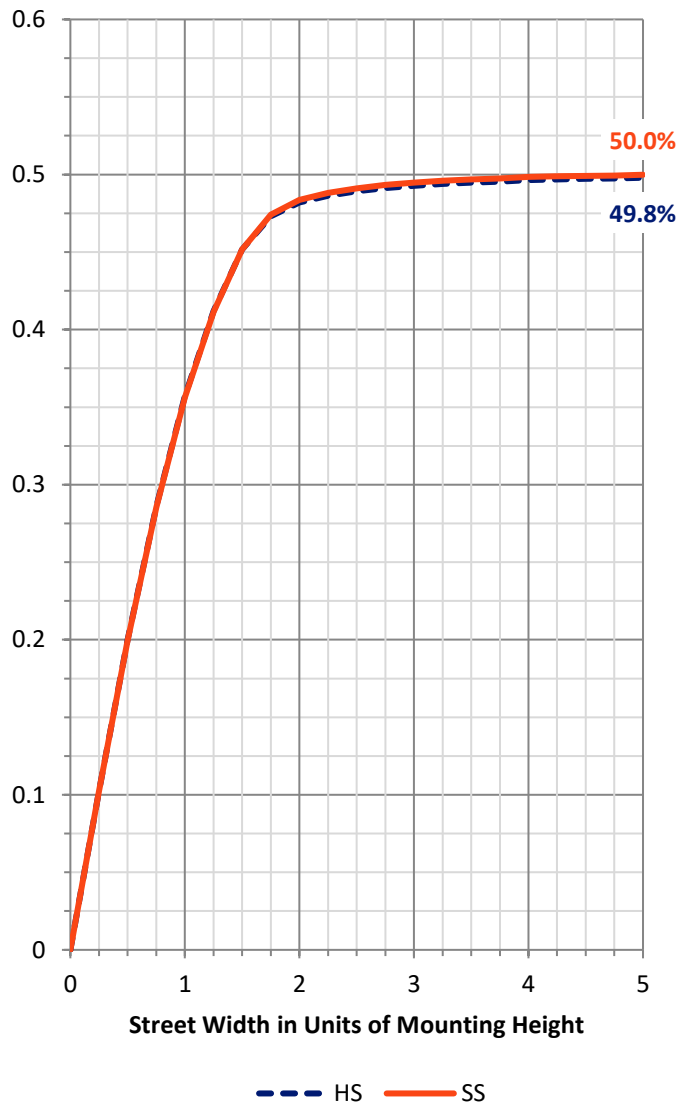
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11822.4	0.0	11822.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11822.4	0.0	11822.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	23644.7	0.0	23644.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.7	1.9
10°-20°	1311.2	5.5
20°-30°	2289.9	9.7
30°-40°	3752.1	15.9
40°-50°	5501.5	23.3
50°-60°	6929.5	29.3
60°-70°	2606.1	11.0
70°-80°	693.0	2.9
80°-90°	118.8	0.5
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°	23644.7	100.0
0°-180°	23644.7	100.0

Coefficient of Utilization



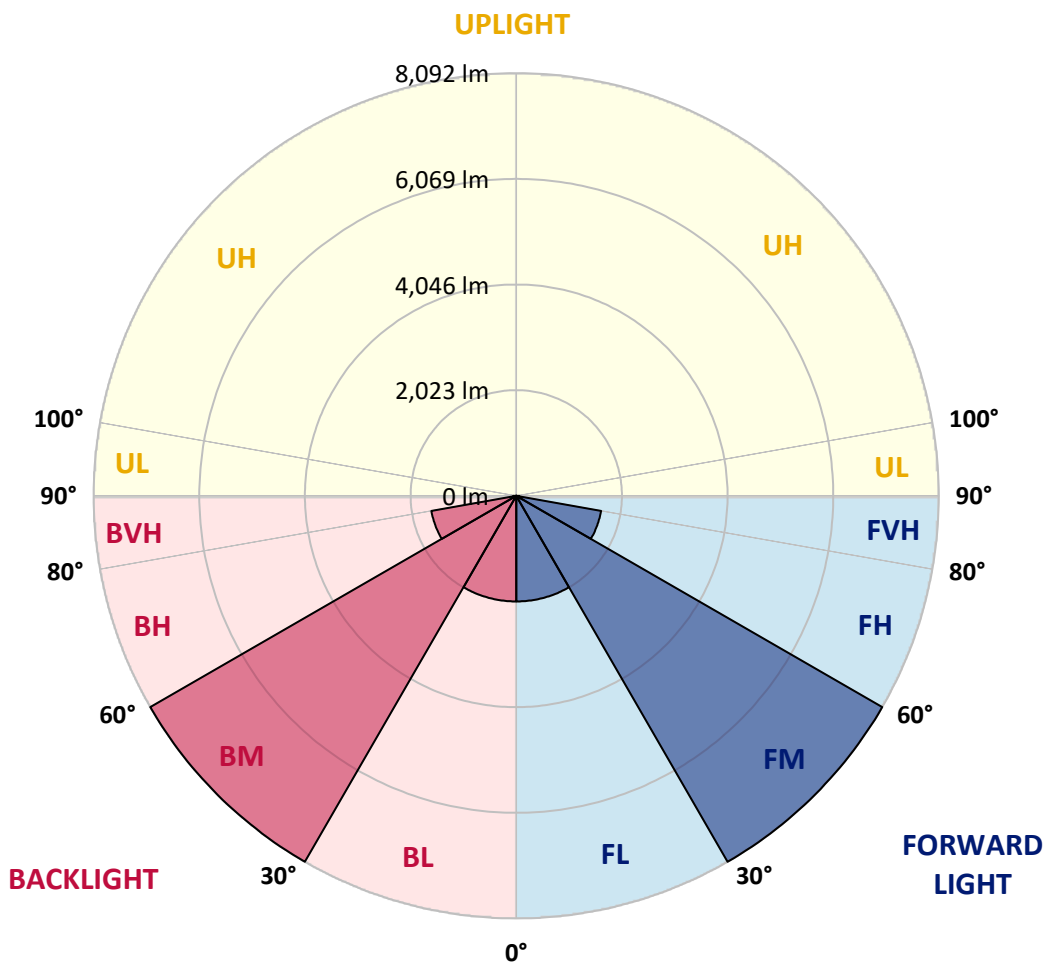
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.9	8.6			
FM (30°-60°)	8091.5	34.2			
FH (60°-80°)	1649.5	7.0			G1/1800
FVH (80°-90°)	59.4	0.3			G1/100
BL (0°-30°)	2021.9	8.6	B3/2500		
BM (30°-60°)	8091.5	34.2	B4/8500		
BH (60°-80°)	1649.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	59.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4669.7	4669.7	4669.7	4669.7	4669.7	4669.7	4669.7	4669.7	4669.7	4669.7	4669.7
2.5°	4646.4	4692.9	4672.6	4660.9	4669.7	4655.1	4631.8	4658.0	4652.2	4628.9	4620.1
5°	4634.7	4669.7	4646.4	4669.7	4646.4	4687.1	4675.5	4631.8	4684.2	4634.7	4652.2
7.5°	4625.9	4637.6	4643.4	4631.8	4623.1	4672.6	4646.4	4625.9	4596.8	4588.1	4602.6
10°	4605.6	4634.7	4591.0	4649.3	4660.9	4625.9	4625.9	4588.1	4564.8	4550.2	4599.8
12.5°	4658.0	4608.5	4602.6	4631.8	4640.6	4655.1	4614.3	4593.9	4550.2	4556.0	4547.3
15°	4596.8	4617.3	4620.1	4625.9	4634.7	4669.7	4631.8	4588.1	4570.6	4509.4	4515.2
17.5°	4620.1	4599.8	4620.1	4687.1	4675.5	4701.7	4660.9	4593.9	4553.2	4518.2	4564.8
20°	4660.9	4652.2	4660.9	4742.5	4757.0	4780.3	4745.4	4684.2	4605.6	4564.8	4588.1
22.5°	4704.6	4698.8	4704.6	4783.3	4867.7	4896.9	4861.9	4719.2	4678.4	4602.6	4576.5
25°	4783.3	4789.1	4850.3	4937.7	4993.0	5048.4	4984.3	4882.3	4751.2	4704.6	4649.3
27.5°	4958.0	4972.6	5007.6	5135.7	5231.9	5281.4	5191.1	5051.3	4969.7	4873.6	4859.0
30°	5173.6	5173.6	5234.8	5345.5	5476.6	5552.3	5441.6	5275.6	5176.5	5124.1	5092.1
32.5°	5459.1	5427.1	5450.4	5645.5	5849.5	5913.6	5765.0	5561.0	5403.8	5333.9	5310.5
35°	5703.8	5724.2	5776.7	5986.4	6213.6	6362.2	6129.1	5864.0	5703.8	5639.7	5628.1
37.5°	6021.3	6056.3	6082.5	6370.9	6644.7	6700.1	6475.8	6263.1	6067.9	6015.5	5986.4
40°	6469.9	6446.6	6455.3	6668.0	6915.6	6950.6	6729.2	6577.7	6417.5	6385.5	6385.5
42.5°	6839.9	6813.7	6842.8	6921.4	7110.8	7084.6	6962.2	6851.5	6784.5	6749.6	6784.5
45°	7064.2	7058.3	7110.8	7169.1	7303.1	7215.7	7119.6	7137.1	7073.0	7014.7	7011.8
47.5°	7308.9	7271.0	7335.1	7422.5	7320.6	7279.8	7274.0	7311.8	7291.4	7189.5	7157.4
50°	7428.3	7413.8	7515.8	7617.7	7562.4	7469.1	7489.5	7550.7	7288.5	7151.6	7073.0
52.5°	7748.8	7751.7	7946.9	8002.2	7978.9	7842.0	7885.7	7719.6	7410.9	7218.6	7227.3
55°	8252.7	8232.4	8450.8	8613.9	8640.2	8465.4	8255.7	8022.6	7635.2	7440.0	7381.7
57°	7976.0	8022.6	8264.4	8748.0	8992.6	8785.8	8328.5	7903.1	7387.6	7151.6	7046.7
57.5°	7606.0	7681.8	8101.3	8587.7	8844.1	8826.6	8238.2	7681.8	7221.5	6854.5	6863.2
60°	5572.7	5587.3	5966.0	6737.9	7539.1	7556.6	6839.9	6102.9	5590.2	5191.1	5246.4
62.5°	2939.3	3006.3	3157.8	3778.3	4471.6	4640.6	4206.5	3827.8	3385.0	3082.0	3111.2
65°	1555.6	1546.9	1619.7	1794.4	2135.3	2222.7	2164.4	1864.3	1710.0	1660.5	1663.3
67.5°	1264.3	1278.8	1270.1	1278.8	1302.1	1340.0	1331.3	1342.9	1351.7	1366.2	1363.3
70°	1072.0	1072.0	1077.8	1080.8	1080.8	1098.3	1118.6	1156.5	1159.4	1174.0	1179.8
72.5°	844.8	839.0	847.7	868.1	871.0	885.6	914.7	938.1	946.7	946.7	929.3
75°	573.9	579.7	591.4	608.8	626.3	652.5	675.8	690.4	696.3	687.5	678.8
77.5°	323.4	329.2	337.9	364.2	384.5	407.8	434.0	448.6	463.1	466.1	448.6
80°	192.3	192.3	206.8	227.2	250.5	273.8	297.1	314.6	320.4	320.4	311.7
82.5°	116.6	119.4	131.1	151.5	171.9	186.4	206.8	221.4	233.0	230.1	224.3
85°	61.1	61.1	72.8	90.3	104.9	119.4	119.4	110.7	104.9	90.3	84.5
87.5°	20.4	17.5	23.3	23.3	20.4	23.3	23.3	26.2	26.2	26.2	26.2
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)