

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: P652095

Luminaire Tested: **GALN-SA9A-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652095  
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-SA9A-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36568.4 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

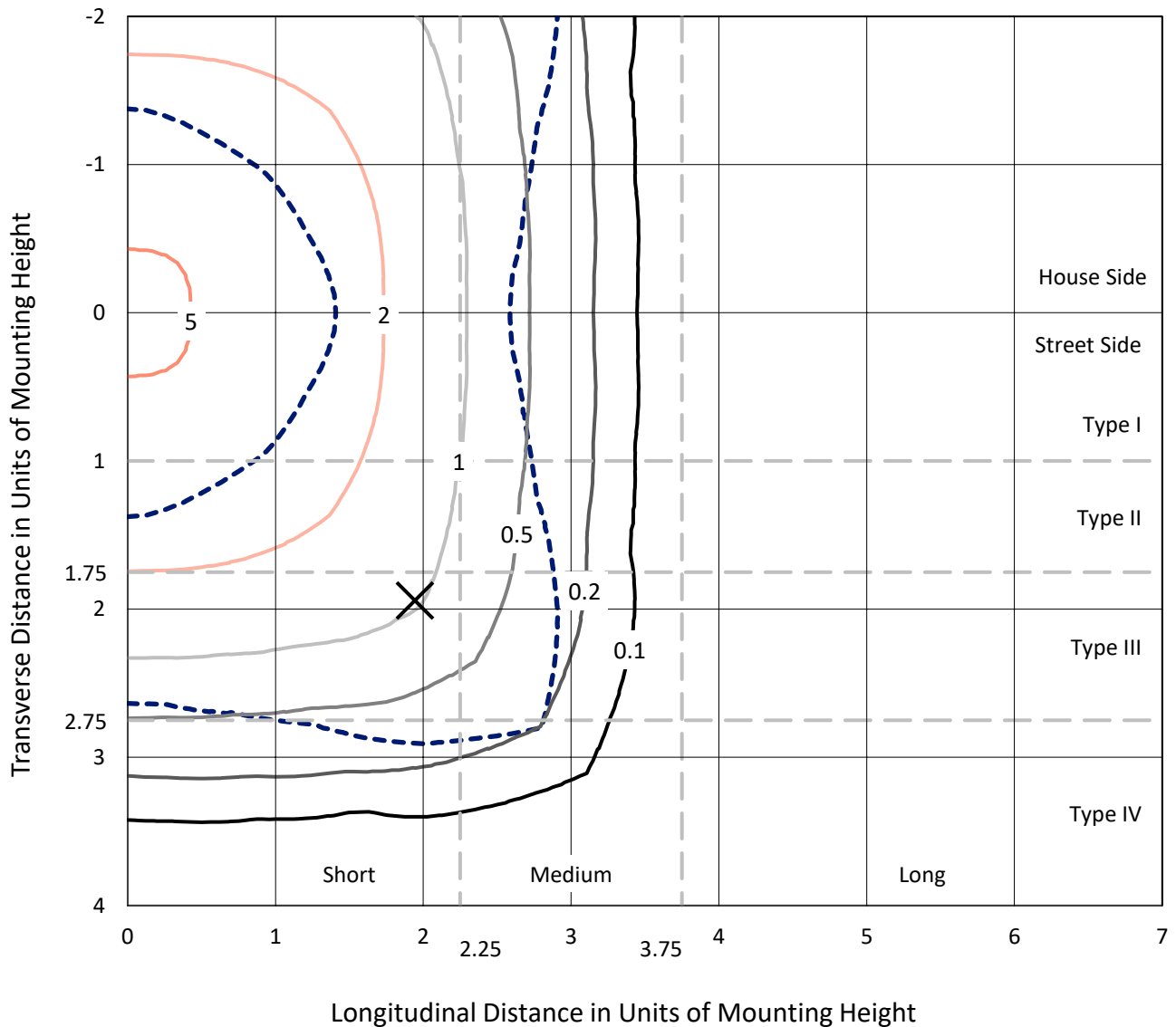
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

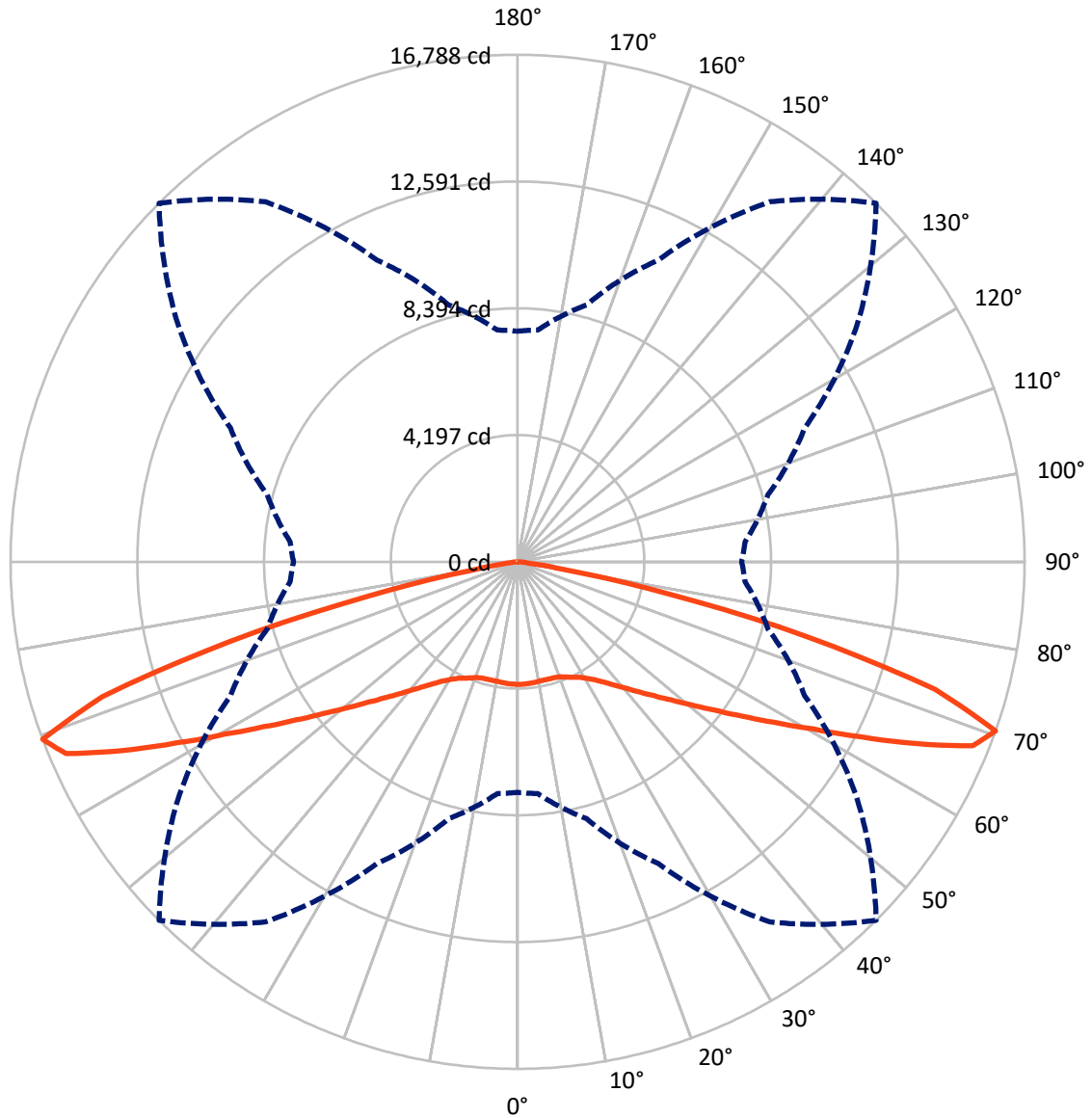
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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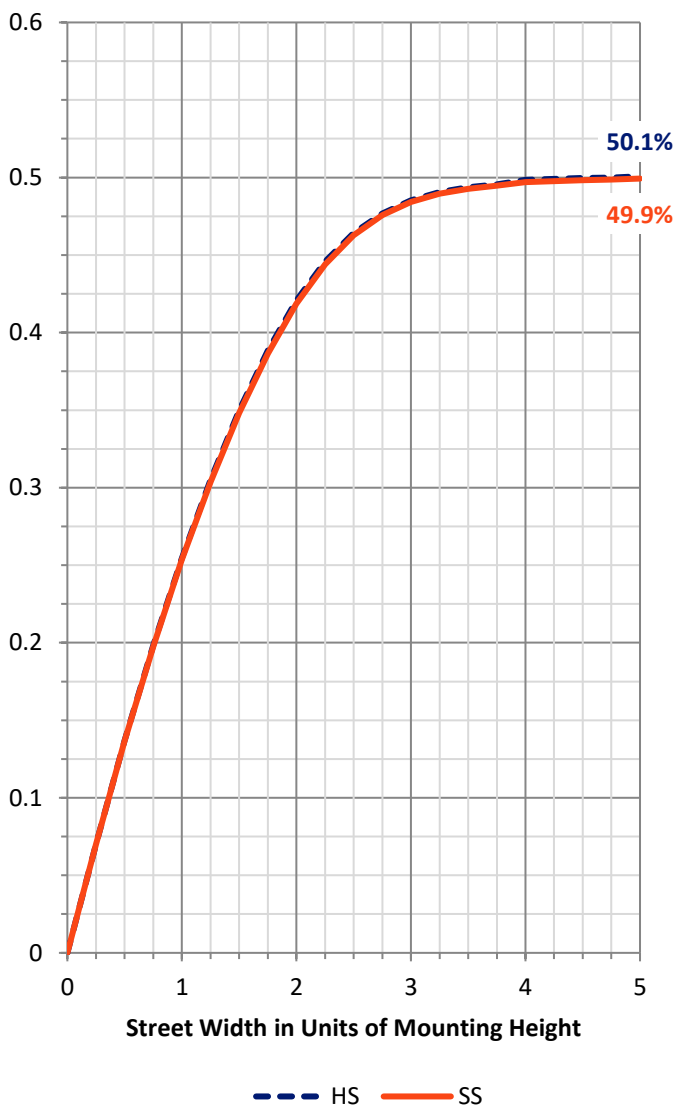
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18284.2	0.0	18284.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18284.2	0.0	18284.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36568.4	0.0	36568.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.1	1.1
10°-20°	1130.0	3.1
20°-30°	1932.6	5.3
30°-40°	3067.4	8.4
40°-50°	4948.6	13.5
50°-60°	8051.5	22.0
60°-70°	11671.8	31.9
70°-80°	5177.2	14.2
80°-90°	204.2	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°	36568.4	100.0
0°-180°	36568.4	100.0

**Coefficient of Utilization**



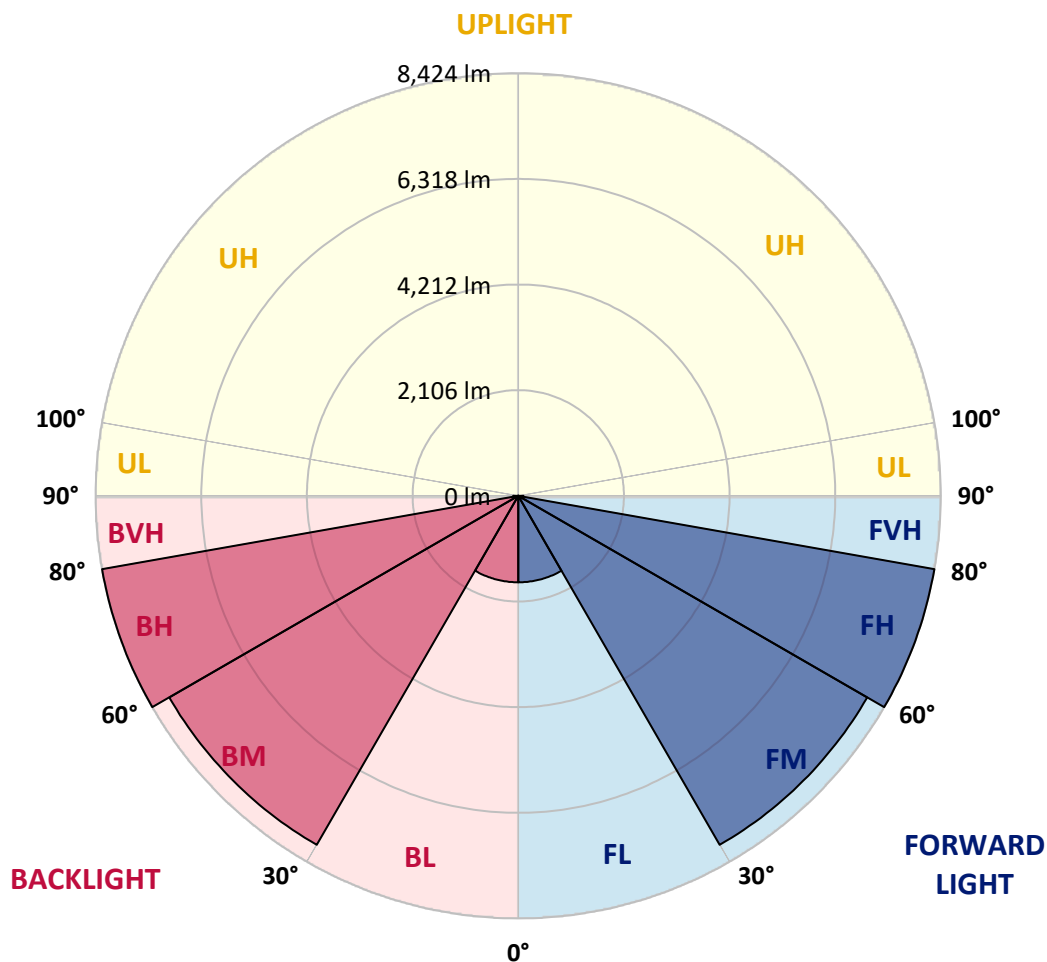
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.8	4.7			
FM (30°-60°)	8033.8	22.0			
FH (60°-80°)	8424.5	23.0			G4/12000
FVH (80°-90°)	102.1	0.3			G2/225
BL (0°-30°)	1723.8	4.7	B3/2500		
BM (30°-60°)	8033.8	22.0	B4/8500		
BH (60°-80°)	8424.5	23.0	B5		G4/12000
BVH (80°-90°)	102.1	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°	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8	4060.8
2.5°	4060.8	4064.6	4058.8	4055.0	4053.0	4053.0	4051.1	4053.0	4064.6	4066.5	4060.8
5°	4049.2	4053.0	4051.1	4047.2	4045.3	4045.3	4043.4	4041.5	4051.1	4055.0	4053.0
7.5°	4033.8	4035.7	4033.8	4031.8	4033.8	4031.8	4026.0	4022.2	4029.9	4029.9	4028.0
10°	4006.8	4010.6	4008.7	4010.6	4014.5	4014.5	4006.8	3999.0	4001.0	3997.1	3997.1
12.5°	3974.0	3979.8	3981.7	3989.5	3999.0	4010.6	3993.3	3975.9	3972.1	3970.2	3968.3
15°	3952.8	3958.6	3966.3	3974.0	3991.4	4016.4	3991.4	3964.4	3956.7	3949.0	3945.1
17.5°	3947.1	3954.7	3966.3	3977.8	4001.0	4026.0	4004.8	3977.8	3958.6	3947.1	3943.2
20°	3962.5	3968.3	3985.6	4006.8	4039.6	4064.6	4043.4	4014.5	3985.6	3968.3	3962.5
22.5°	3993.3	4002.9	4024.1	4062.7	4109.0	4145.5	4116.6	4068.4	4022.2	3999.0	3991.4
25°	4060.8	4068.4	4093.5	4145.5	4199.5	4234.2	4203.4	4147.5	4083.9	4053.0	4043.4
27.5°	4162.9	4174.5	4201.5	4263.1	4307.4	4326.7	4305.5	4267.0	4220.7	4187.9	4180.3
30°	4307.4	4320.9	4361.4	4426.9	4455.9	4467.4	4457.7	4432.7	4399.9	4365.2	4357.6
32.5°	4502.1	4509.8	4556.0	4617.8	4644.7	4648.5	4637.0	4625.4	4571.5	4513.6	4509.8
35°	4719.9	4733.4	4789.2	4862.5	4887.6	4889.5	4866.4	4849.0	4785.4	4739.1	4739.1
37.5°	5009.0	5014.7	5068.7	5151.5	5178.5	5170.9	5159.3	5143.9	5076.4	5016.6	5018.6
40°	5348.2	5359.7	5405.9	5502.3	5502.3	5492.7	5500.4	5488.9	5421.4	5363.6	5365.5
42.5°	5750.9	5756.7	5812.7	5914.8	5907.1	5887.8	5895.5	5880.1	5837.7	5772.1	5749.0
45°	6180.8	6203.9	6300.2	6398.5	6383.1	6321.5	6352.2	6348.4	6309.9	6211.5	6217.3
47.5°	6699.2	6737.7	6830.2	6947.8	6930.4	6834.1	6868.8	6891.9	6837.9	6730.0	6710.8
50°	7283.1	7308.2	7445.0	7554.9	7539.5	7437.3	7516.4	7520.2	7385.2	7233.0	7233.0
52.5°	7905.7	7930.7	8115.7	8287.2	8296.9	8148.4	8212.0	8208.2	7988.5	7788.1	7749.6
55°	8603.3	8614.9	8853.9	9106.3	9160.3	9015.8	9023.4	8946.4	8661.1	8427.9	8406.7
57.5°	9324.1	9366.5	9630.5	9958.2	10118.2	10029.5	9989.0	9782.8	9507.2	9239.3	9225.8
60°	10122.0	10123.9	10467.0	10854.4	11178.2	11237.9	11072.1	10796.5	10440.0	10085.4	10070.0
62.5°	10675.1	10758.0	11191.6	11846.9	12427.0	12762.3	12324.9	11746.7	11045.1	10472.7	10414.9
65°	10788.9	10844.7	11505.8	12615.8	13801.1	14523.8	13512.0	12282.5	11085.6	10322.4	10283.9
67.5°	9869.6	9929.3	10819.6	12523.3	14764.8	16246.9	14283.0	12024.2	10399.6	9455.2	9380.0
70°	7633.9	7701.4	8801.8	11023.9	14550.8	16788.4	13733.7	10488.2	8576.3	7556.8	7420.0
72.5°	4058.8	4307.4	5247.9	7566.5	11810.2	14454.4	11261.0	7653.2	5531.3	4521.4	4340.2
75°	1482.1	1512.9	2037.2	3355.3	6870.7	9911.9	7134.7	3650.3	2098.8	1620.9	1537.9
77.5°	612.8	610.9	670.7	1013.7	2495.8	5076.4	2784.9	1071.5	668.8	618.6	610.9
80°	362.3	362.3	399.0	422.1	657.2	1532.1	734.3	477.9	400.9	366.2	372.0
82.5°	161.9	171.6	252.5	265.9	318.0	420.2	354.6	304.5	262.1	181.2	163.8
85°	88.6	77.1	133.0	138.8	152.2	156.1	167.7	165.8	152.2	88.6	90.6
87.5°	17.3	21.2	38.5	28.9	32.8	28.9	38.5	54.0	55.9	30.9	25.1
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)