

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: P457672

Luminaire Tested: **GALN-SA9A-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457672
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-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 43482 lumens
Efficiency: N/A
Efficacy: 158.7 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

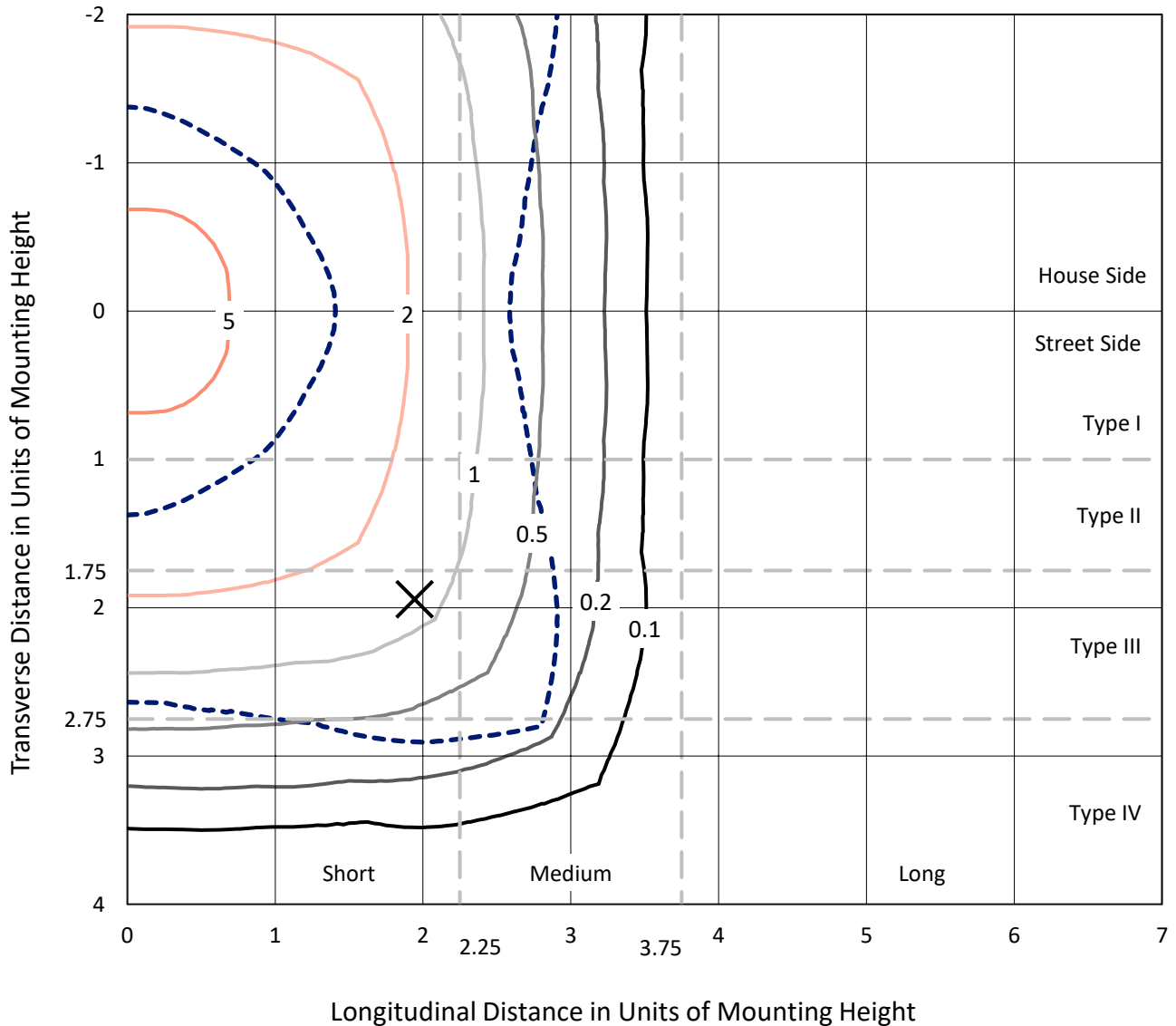
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

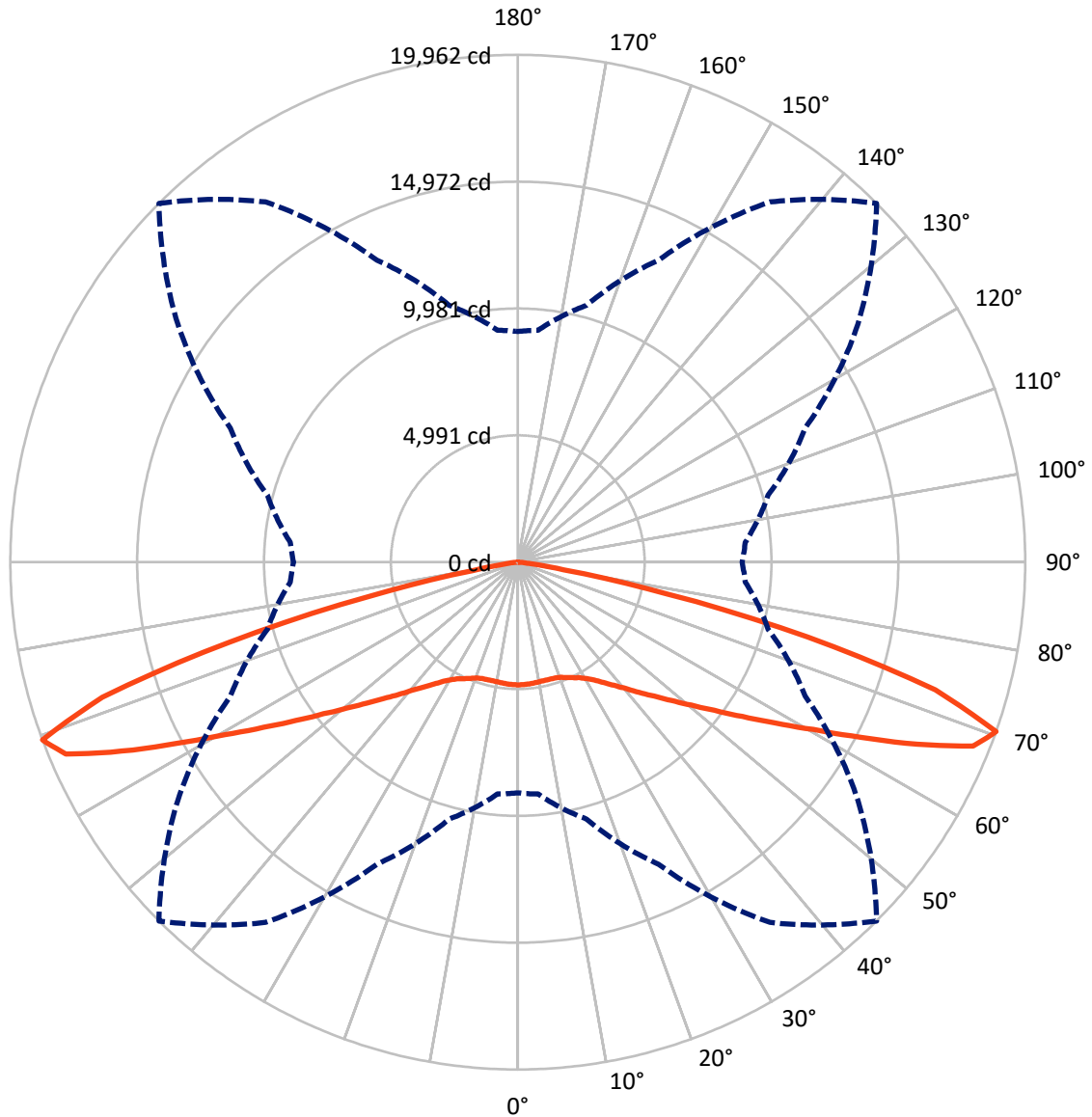
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	21741.0	0.0	21741.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21741.0	0.0	21741.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43482.0	0.0	43482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.9	1.1
10°-20°	1343.6	3.1
20°-30°	2298.0	5.3
30°-40°	3647.4	8.4
40°-50°	5884.2	13.5
50°-60°	9573.7	22.0
60°-70°	13878.4	31.9
70°-80°	6156.0	14.2
80°-90°	242.8	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°	43482.0	100.0
0°-180°	43482.0	100.0



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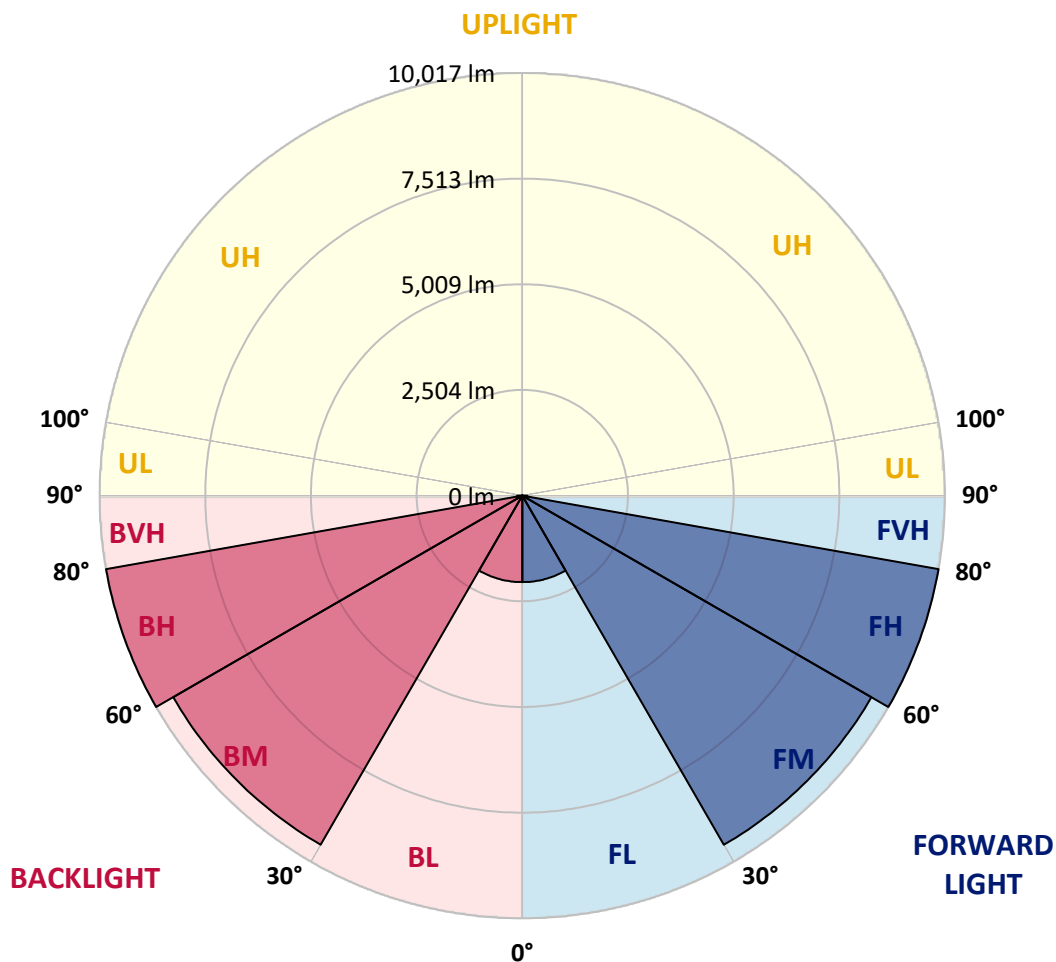
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.7	4.7			
FM (30°-60°)	9552.7	22.0			
FH (60°-80°)	10017.2	23.0			G4/12000
FVH (80°-90°)	121.4	0.3			G2/225
BL (0°-30°)	2049.7	4.7	B3/2500		
BM (30°-60°)	9552.7	22.0	B5		
BH (60°-80°)	10017.2	23.0	B5		G4/12000
BVH (80°-90°)	121.4	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°	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5	4828.5
2.5°	4828.5	4833.1	4826.2	4821.6	4819.3	4819.3	4817.0	4819.3	4833.1	4835.3	4828.5
5°	4814.7	4819.3	4817.0	4812.4	4810.1	4810.1	4807.8	4805.6	4817.0	4821.6	4819.3
7.5°	4796.4	4798.7	4796.4	4794.1	4796.4	4794.1	4787.2	4782.6	4791.8	4791.8	4789.5
10°	4764.3	4768.9	4766.6	4768.9	4773.5	4773.5	4764.3	4755.1	4757.4	4752.8	4752.8
12.5°	4725.3	4732.2	4734.5	4743.7	4755.1	4768.9	4748.3	4727.6	4723.1	4720.8	4718.5
15°	4700.1	4707.0	4716.2	4725.3	4746.0	4775.8	4746.0	4713.9	4704.7	4695.6	4691.0
17.5°	4693.3	4702.4	4716.2	4729.9	4757.4	4787.2	4762.0	4729.9	4707.0	4693.3	4688.7
20°	4711.6	4718.5	4739.1	4764.3	4803.3	4833.1	4807.8	4773.5	4739.1	4718.5	4711.6
22.5°	4748.3	4759.7	4784.9	4830.8	4885.8	4929.3	4894.9	4837.6	4782.6	4755.1	4746.0
25°	4828.5	4837.6	4867.4	4929.3	4993.5	5034.7	4998.1	4931.6	4856.0	4819.3	4807.8
27.5°	4949.9	4963.7	4995.8	5069.1	5121.8	5144.7	5119.5	5073.7	5018.7	4979.7	4970.6
30°	5121.8	5137.8	5186.0	5263.9	5298.3	5312.0	5300.5	5270.8	5231.8	5190.5	5181.4
32.5°	5353.3	5362.4	5417.4	5490.8	5522.8	5527.4	5513.7	5499.9	5435.8	5367.0	5362.4
35°	5612.2	5628.3	5694.7	5781.8	5811.6	5813.9	5786.4	5765.7	5690.1	5635.1	5635.1
37.5°	5956.0	5962.8	6027.0	6125.5	6157.6	6148.5	6134.7	6116.4	6036.2	5965.1	5967.4
40°	6359.3	6373.0	6428.0	6542.6	6542.6	6531.2	6540.3	6526.6	6446.4	6377.6	6379.9
42.5°	6838.2	6845.1	6911.6	7033.0	7023.9	7000.9	7010.1	6991.8	6941.4	6863.4	6835.9
45°	7349.3	7376.8	7491.3	7608.2	7589.9	7516.6	7553.2	7548.6	7502.8	7385.9	7392.8
47.5°	7965.7	8011.5	8121.5	8261.3	8240.7	8126.1	8167.4	8194.9	8130.7	8002.4	7979.5
50°	8660.1	8689.9	8852.6	8983.2	8964.9	8843.4	8937.4	8942.0	8781.5	8600.5	8600.5
52.5°	9400.3	9430.1	9650.1	9854.0	9865.5	9689.0	9764.6	9760.1	9498.8	9260.5	9214.7
55°	10229.9	10243.6	10527.8	10828.0	10892.1	10720.3	10729.4	10637.8	10298.6	10021.3	9996.1
57.5°	11086.9	11137.3	11451.3	11840.9	12031.1	11925.7	11877.5	11632.3	11304.6	10986.1	10970.0
60°	12035.7	12037.9	12445.9	12906.5	13291.5	13362.5	13165.4	12837.7	12413.8	11992.1	11973.8
62.5°	12693.4	12791.9	13307.5	14086.7	14776.5	15175.2	14655.0	13967.5	13133.3	12452.7	12384.0
65°	12828.6	12895.0	13681.1	15001.0	16410.4	17269.7	16066.6	14604.6	13181.5	12274.0	12228.2
67.5°	11735.5	11806.5	12865.2	14891.0	17556.2	19318.5	16983.3	14297.5	12365.7	11242.8	11153.4
70°	9077.2	9157.4	10465.9	13108.1	17301.8	19962.4	16330.2	12471.1	10197.8	8985.5	8822.8
72.5°	4826.2	5121.8	6240.1	8997.0	14043.1	17187.2	13390.0	9100.1	6577.0	5376.2	5160.8
75°	1762.3	1798.9	2422.3	3989.7	8169.7	11785.9	8483.6	4340.4	2495.6	1927.3	1828.7
77.5°	728.7	726.4	797.5	1205.4	2967.7	6036.2	3311.4	1274.1	795.2	735.6	726.4
80°	430.8	430.8	474.4	501.9	781.4	1821.8	873.1	568.3	476.7	435.4	442.3
82.5°	192.5	204.0	300.2	316.2	378.1	499.6	421.7	362.1	311.7	215.4	194.8
85°	105.4	91.7	158.1	165.0	181.0	185.6	199.4	197.1	181.0	105.4	107.7
87.5°	20.6	25.2	45.8	34.4	39.0	34.4	45.8	64.2	66.5	36.7	29.8
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)