

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: P456744

Luminaire Tested: **GALN-SA8A-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456744
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-SA8A-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38731 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

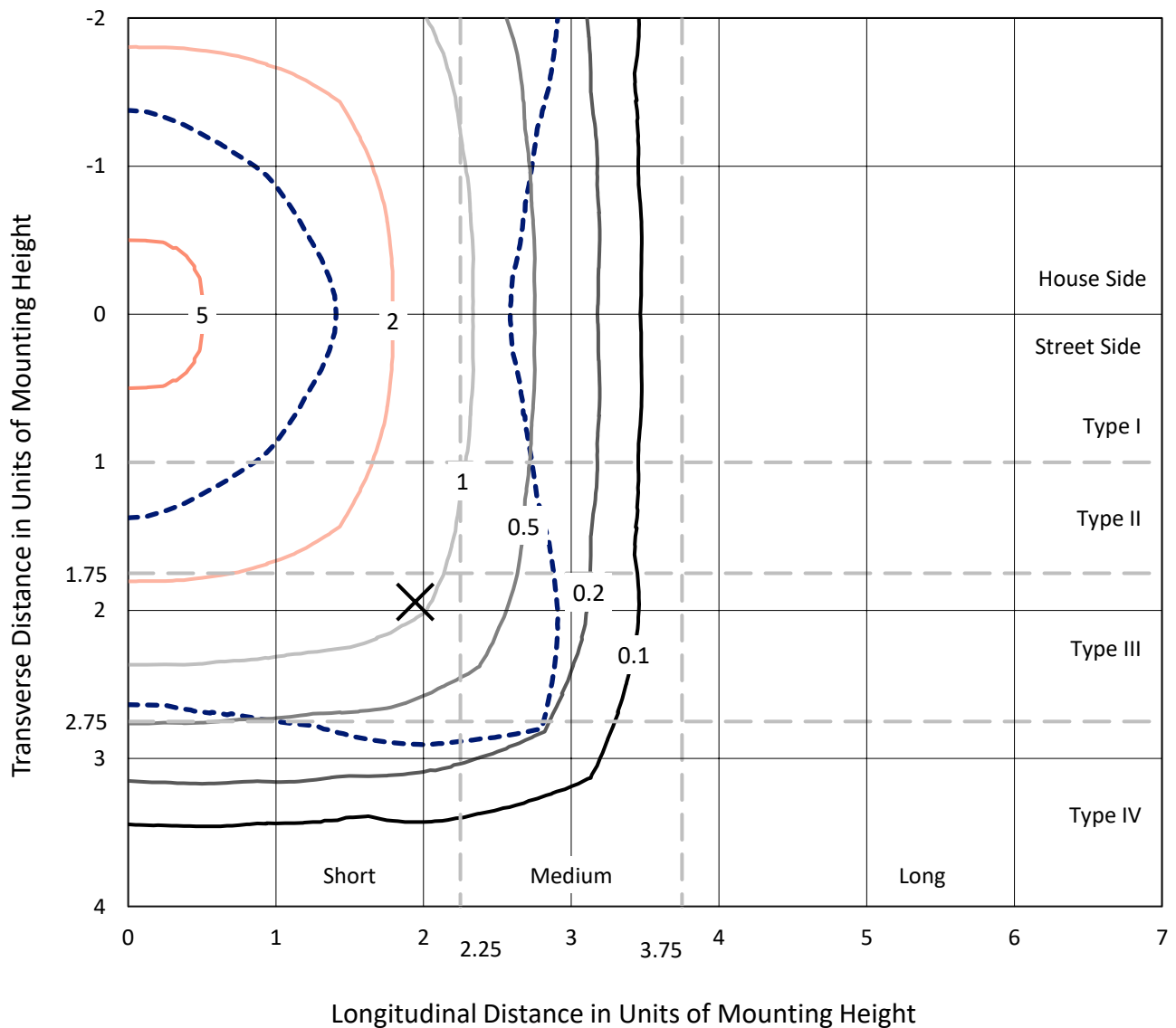
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

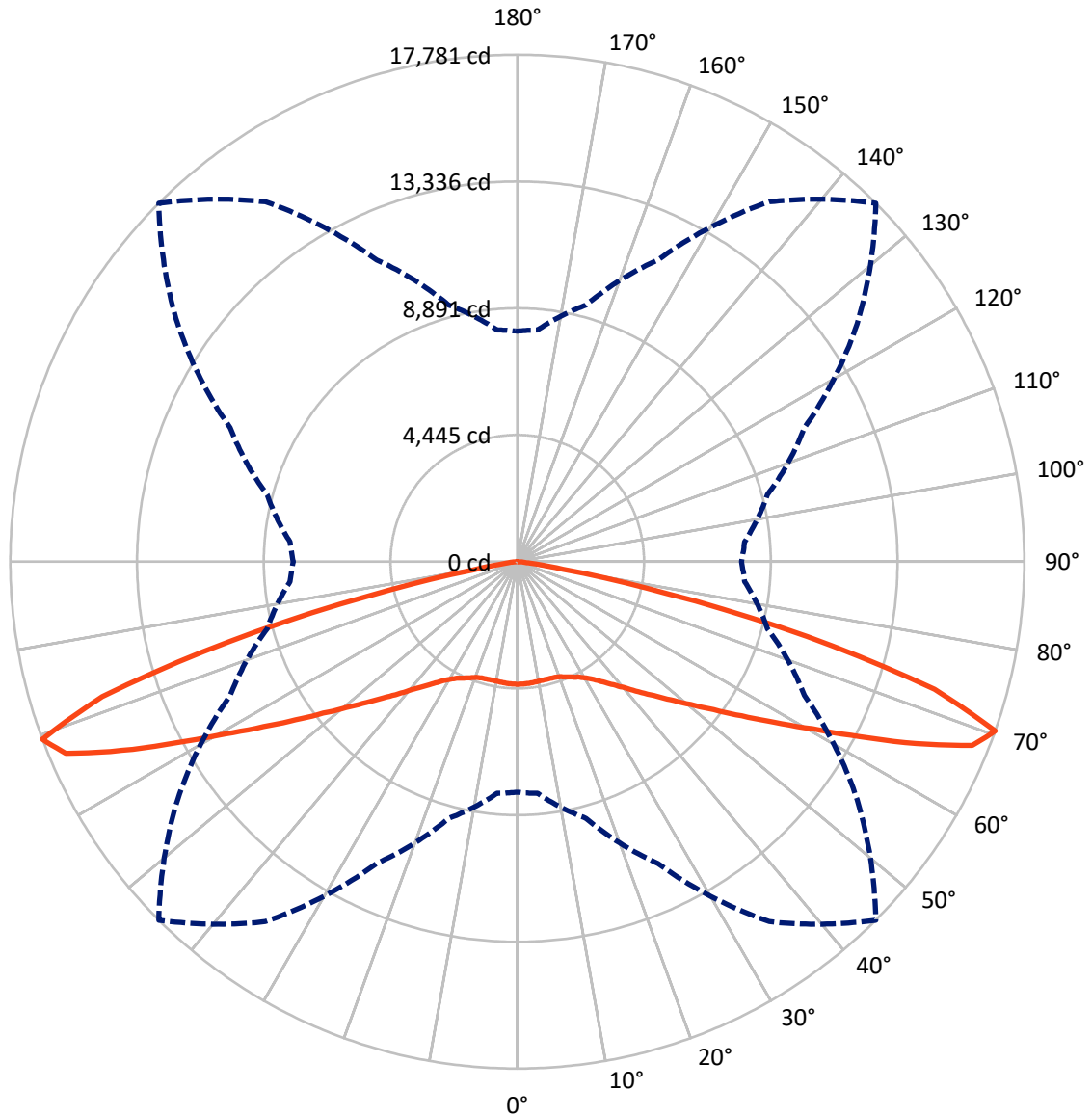
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	19365.5	0.0	19365.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19365.5	0.0	19365.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38731.0	0.0	38731.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.8	1.1
10°-20°	1196.8	3.1
20°-30°	2046.9	5.3
30°-40°	3248.9	8.4
40°-50°	5241.3	13.5
50°-60°	8527.7	22.0
60°-70°	12362.0	31.9
70°-80°	5483.4	14.2
80°-90°	216.3	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°	38731.0	100.0
0°-180°	38731.0	100.0



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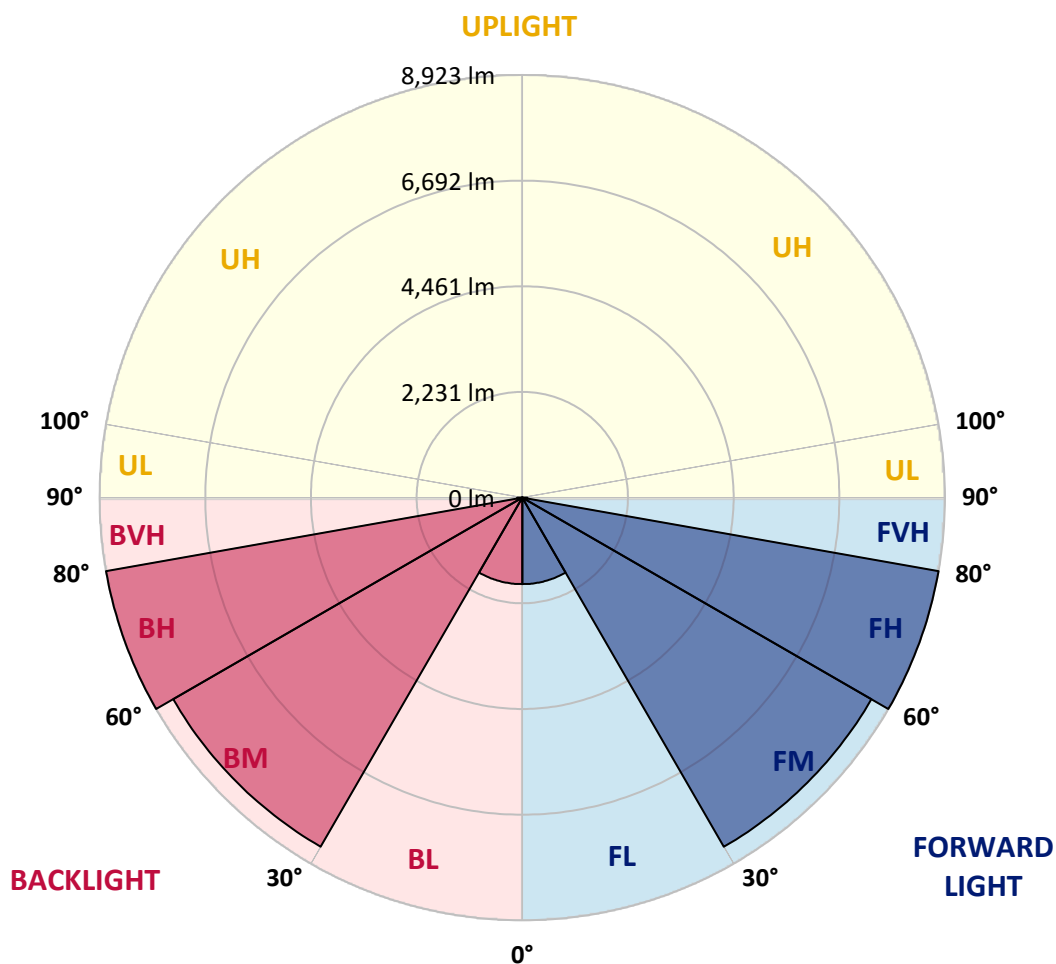
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.8	4.7			
FM (30°-60°)	8508.9	22.0			
FH (60°-80°)	8922.7	23.0			G4/12000
FVH (80°-90°)	108.1	0.3			G2/225
BL (0°-30°)	1825.8	4.7	B3/2500		
BM (30°-60°)	8508.9	22.0	B5		
BH (60°-80°)	8922.7	23.0	B5		G4/12000
BVH (80°-90°)	108.1	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°	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9	4300.9
2.5°	4300.9	4305.0	4298.9	4294.8	4292.7	4292.7	4290.7	4292.7	4305.0	4307.0	4300.9
5°	4288.6	4292.7	4290.7	4286.6	4284.6	4284.6	4282.5	4280.5	4290.7	4294.8	4292.7
7.5°	4272.3	4274.4	4272.3	4270.3	4272.3	4270.3	4264.2	4260.1	4268.2	4268.2	4266.2
10°	4243.7	4247.8	4245.8	4247.8	4251.9	4251.9	4243.7	4235.6	4237.6	4233.5	4233.5
12.5°	4209.0	4215.2	4217.2	4225.4	4235.6	4247.8	4229.5	4211.1	4207.0	4205.0	4202.9
15°	4186.6	4192.7	4200.9	4209.0	4227.4	4253.9	4227.4	4198.8	4190.7	4182.5	4178.4
17.5°	4180.5	4188.6	4200.9	4213.1	4237.6	4264.2	4241.7	4213.1	4192.7	4180.5	4176.4
20°	4196.8	4202.9	4221.3	4243.7	4278.4	4305.0	4282.5	4251.9	4221.3	4202.9	4196.8
22.5°	4229.5	4239.7	4262.1	4302.9	4351.9	4390.7	4360.1	4309.1	4260.1	4235.6	4227.4
25°	4300.9	4309.1	4335.6	4390.7	4447.9	4484.6	4451.9	4392.8	4325.4	4292.7	4282.5
27.5°	4409.1	4421.3	4449.9	4515.2	4562.2	4582.6	4560.1	4519.3	4470.3	4435.6	4427.5
30°	4562.2	4576.5	4619.3	4688.7	4719.3	4731.6	4721.4	4694.9	4660.2	4623.4	4615.2
32.5°	4768.3	4776.5	4825.5	4890.8	4919.4	4923.5	4911.2	4899.0	4841.8	4780.6	4776.5
35°	4999.0	5013.3	5072.5	5150.1	5176.6	5178.6	5154.1	5135.8	5068.4	5019.4	5019.4
37.5°	5305.2	5311.3	5368.5	5456.2	5484.8	5476.6	5464.4	5448.1	5376.6	5313.4	5315.4
40°	5664.4	5676.7	5725.7	5827.7	5827.7	5817.5	5825.7	5813.5	5742.0	5680.8	5682.8
42.5°	6091.1	6097.2	6156.4	6264.6	6256.4	6236.0	6244.2	6227.8	6182.9	6113.5	6089.0
45°	6546.3	6570.8	6672.8	6776.9	6760.6	6695.3	6727.9	6723.8	6683.0	6578.9	6585.0
47.5°	7095.4	7136.2	7234.2	7358.7	7340.3	7238.2	7275.0	7299.5	7242.3	7128.0	7107.6
50°	7713.9	7740.4	7885.3	8001.7	7985.3	7877.1	7960.8	7964.9	7822.0	7660.8	7660.8
52.5°	8373.2	8399.7	8595.7	8777.3	8787.5	8630.4	8697.7	8693.6	8460.9	8248.7	8207.8
55°	9112.1	9124.3	9377.5	9644.9	9702.0	9548.9	9557.1	9475.4	9173.3	8926.3	8903.9
57.5°	9875.5	9920.4	10200.1	10547.1	10716.5	10622.6	10579.8	10361.3	10069.4	9785.7	9771.4
60°	10720.6	10722.6	11086.0	11496.3	11839.2	11902.5	11726.9	11435.0	11057.4	10681.8	10665.5
62.5°	11306.4	11394.2	11853.5	12547.5	13161.9	13517.1	13053.7	12441.4	11698.4	11092.1	11030.9
65°	11426.9	11486.1	12186.2	13362.0	14617.3	15382.8	14311.1	13008.8	11741.2	10932.9	10892.1
67.5°	10453.2	10516.5	11459.5	13264.0	15637.9	17207.7	15127.6	12735.3	11014.5	10014.3	9934.7
70°	8085.4	8156.8	9322.3	11675.9	15411.4	17781.3	14545.9	11108.4	9083.5	8003.7	7858.8
72.5°	4298.9	4562.2	5558.3	8013.9	12508.7	15309.3	11927.0	8105.8	5858.4	4788.8	4596.9
75°	1569.7	1602.4	2157.6	3553.8	7277.0	10498.1	7556.7	3866.1	2222.9	1716.7	1628.9
77.5°	649.1	647.1	710.4	1073.7	2643.4	5376.6	2949.6	1134.9	708.3	655.2	647.1
80°	383.8	383.8	422.5	447.0	696.1	1622.8	777.7	506.2	424.6	387.8	394.0
82.5°	171.5	181.7	267.4	281.7	336.8	445.0	375.6	322.5	277.6	191.9	173.5
85°	93.9	81.6	140.8	147.0	161.3	165.3	177.6	175.5	161.3	93.9	95.9
87.5°	18.4	22.5	40.8	30.6	34.7	30.6	40.8	57.2	59.2	32.7	26.5
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)