

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: P455352

Luminaire Tested: **GALN-SA6C-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455352
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-SA6C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43725 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

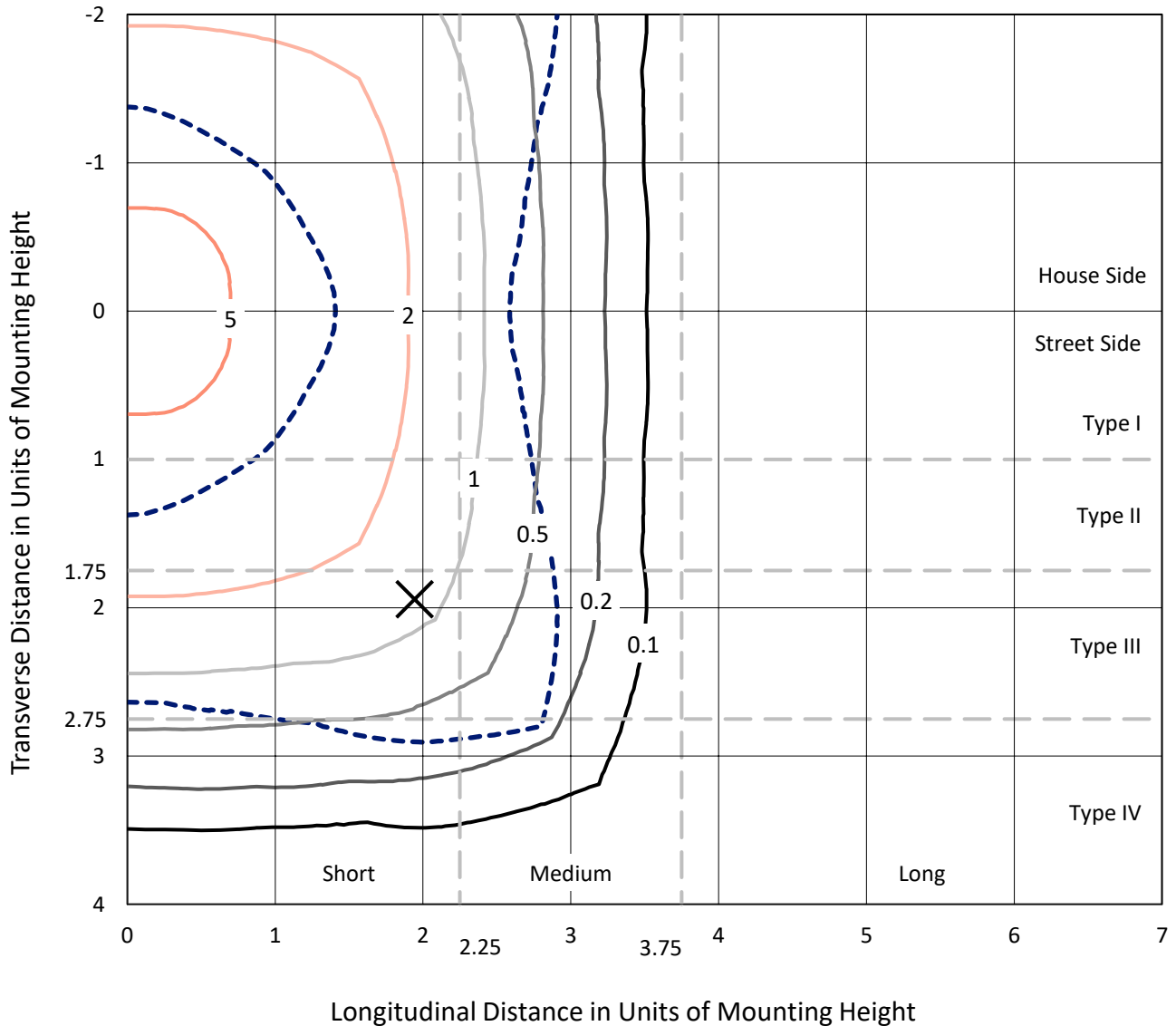
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

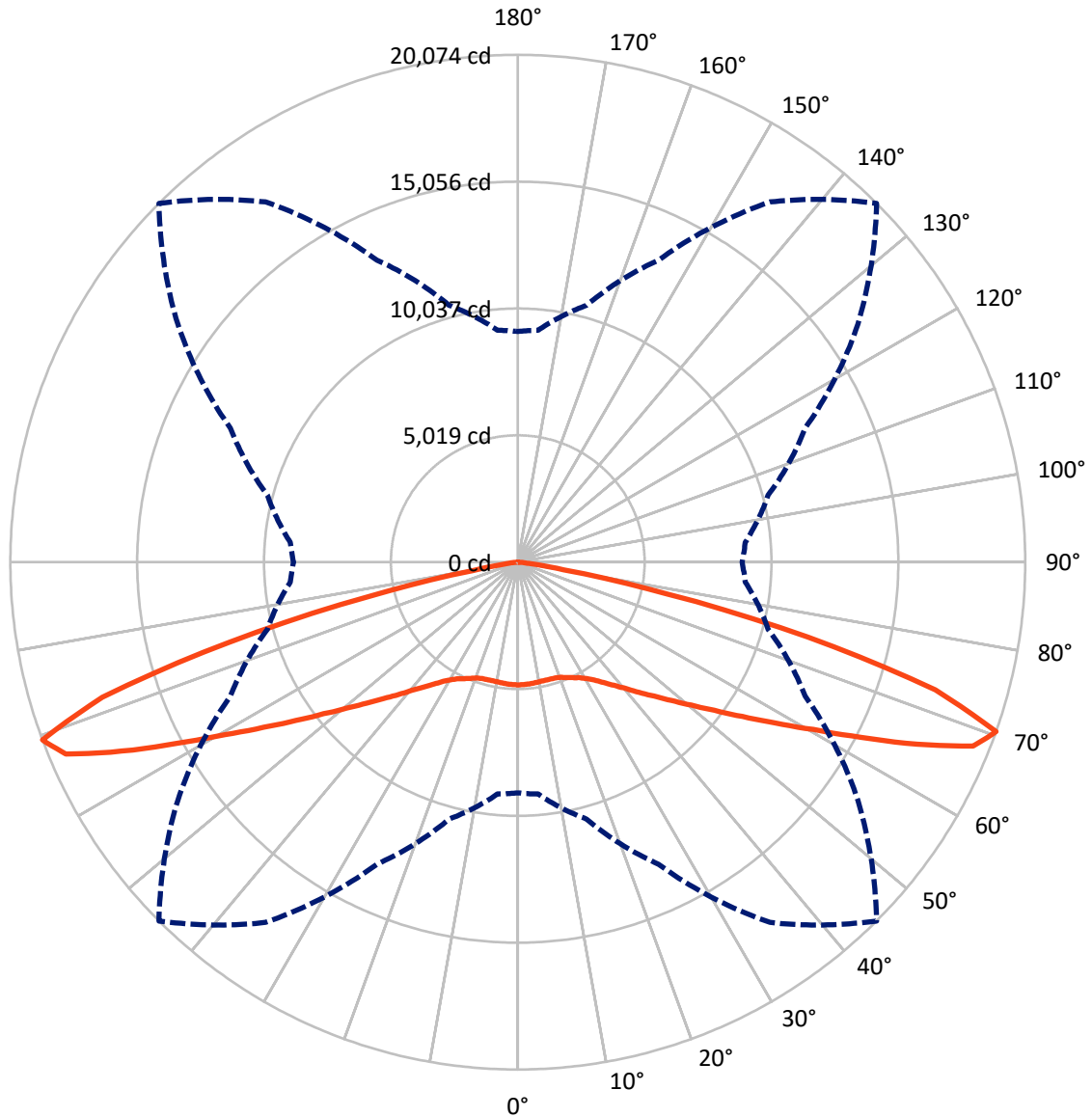
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	21862.5	0.0	21862.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21862.5	0.0	21862.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43725.0	0.0	43725.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	1.1
10°-20°	1351.1	3.1
20°-30°	2310.8	5.3
30°-40°	3667.8	8.4
40°-50°	5917.1	13.5
50°-60°	9627.2	22.0
60°-70°	13956.0	31.9
70°-80°	6190.4	14.2
80°-90°	244.2	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°	43725.0	100.0
0°-180°	43725.0	100.0



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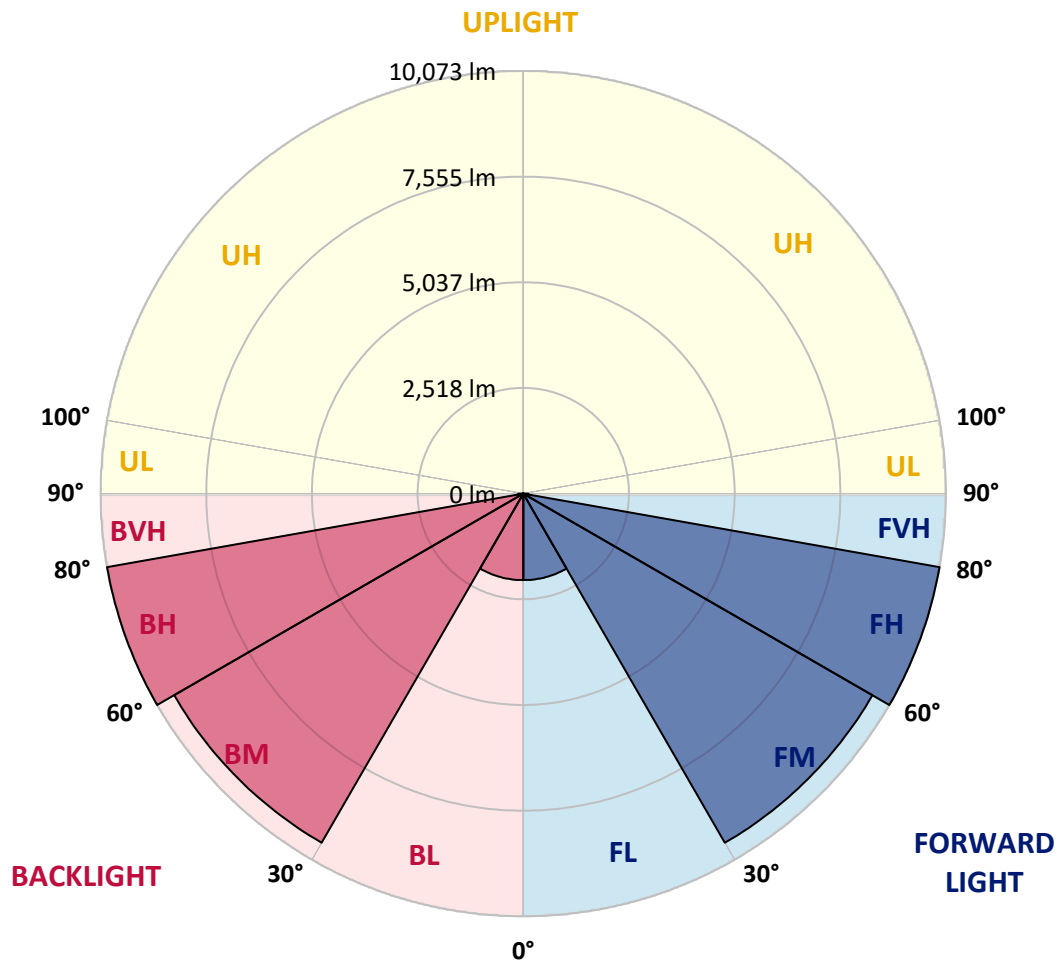
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.2	4.7			
FM (30°-60°)	9606.0	22.0			
FH (60°-80°)	10073.2	23.0			G4/12000
FVH (80°-90°)	122.1	0.3			G2/225
BL (0°-30°)	2061.2	4.7	B3/2500		
BM (30°-60°)	9606.0	22.0	B5		
BH (60°-80°)	10073.2	23.0	B5		G4/12000
BVH (80°-90°)	122.1	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°	4855.5	4855.5	4855.5	4855.5	4855.5	4855.5	4855.5	4855.5	4855.5	4855.5	4855.5
2.5°	4855.5	4860.1	4853.2	4848.5	4846.2	4846.2	4843.9	4846.2	4860.1	4862.4	4855.5
5°	4841.6	4846.2	4843.9	4839.3	4837.0	4837.0	4834.7	4832.4	4843.9	4848.5	4846.2
7.5°	4823.2	4825.5	4823.2	4820.9	4823.2	4820.9	4814.0	4809.4	4818.6	4818.6	4816.3
10°	4790.9	4795.5	4793.2	4795.5	4800.1	4800.1	4790.9	4781.7	4784.0	4779.4	4779.4
12.5°	4751.8	4758.7	4761.0	4770.2	4781.7	4795.5	4774.8	4754.1	4749.5	4747.1	4744.8
15°	4726.4	4733.3	4742.5	4751.8	4772.5	4802.5	4772.5	4740.2	4731.0	4721.8	4717.2
17.5°	4719.5	4728.7	4742.5	4756.4	4784.0	4814.0	4788.6	4756.4	4733.3	4719.5	4714.9
20°	4737.9	4744.8	4765.6	4790.9	4830.1	4860.1	4834.7	4800.1	4765.6	4744.8	4737.9
22.5°	4774.8	4786.3	4811.7	4857.8	4913.1	4956.9	4922.3	4864.7	4809.4	4781.7	4772.5
25°	4855.5	4864.7	4894.6	4956.9	5021.4	5062.9	5026.0	4959.2	4883.1	4846.2	4834.7
27.5°	4977.6	4991.4	5023.7	5097.4	5150.4	5173.5	5148.1	5102.0	5046.7	5007.5	4998.3
30°	5150.4	5166.6	5214.9	5293.3	5327.9	5341.7	5330.2	5300.2	5261.0	5219.6	5210.3
32.5°	5383.2	5392.4	5447.7	5521.4	5553.7	5558.3	5544.5	5530.7	5466.1	5397.0	5392.4
35°	5643.6	5659.7	5726.5	5814.1	5844.1	5846.4	5818.7	5798.0	5721.9	5666.6	5666.6
37.5°	5989.2	5996.2	6060.7	6159.8	6192.0	6182.8	6169.0	6150.6	6069.9	5998.5	6000.8
40°	6394.8	6408.6	6464.0	6579.2	6579.2	6567.7	6576.9	6563.0	6482.4	6413.3	6415.6
42.5°	6876.4	6883.4	6950.2	7072.3	7063.1	7040.1	7049.3	7030.8	6980.1	6901.8	6874.1
45°	7390.3	7418.0	7533.2	7650.7	7632.3	7558.6	7595.4	7590.8	7544.7	7427.2	7434.1
47.5°	8010.2	8056.3	8166.9	8307.5	8286.8	8171.5	8213.0	8240.7	8176.2	8047.1	8024.1
50°	8708.5	8738.4	8902.1	9033.4	9015.0	8892.8	8987.3	8991.9	8830.6	8648.6	8648.6
52.5°	9452.8	9482.8	9704.0	9909.1	9920.6	9743.2	9819.2	9814.6	9551.9	9312.2	9266.2
55°	10287.0	10300.8	10586.6	10888.5	10953.0	10780.2	10789.4	10697.2	10356.2	10077.3	10052.0
57.5°	11148.9	11199.6	11515.3	11907.0	12098.3	11992.3	11943.9	11697.3	11367.8	11047.5	11031.4
60°	12102.9	12105.2	12515.4	12978.6	13365.8	13437.2	13239.0	12909.5	12483.2	12059.1	12040.7
62.5°	12764.3	12863.4	13381.9	14165.4	14859.0	15260.0	14736.9	14045.6	13206.7	12522.3	12453.2
65°	12900.3	12967.1	13757.5	15084.9	16502.1	17366.3	16156.4	14686.2	13255.1	12342.6	12296.5
67.5°	11801.0	11872.5	12937.1	14974.3	17654.3	19426.4	17078.2	14377.4	12434.8	11305.6	11215.7
70°	9127.9	9208.5	10524.4	13181.4	17398.5	20074.0	16421.4	12540.8	10254.8	9035.7	8872.1
72.5°	4853.2	5150.4	6275.0	9047.2	14121.6	17283.3	13464.8	9150.9	6613.7	5406.2	5189.6
75°	1772.1	1809.0	2435.8	4012.0	8215.3	11851.7	8531.0	4364.6	2509.5	1938.0	1838.9
77.5°	732.8	730.5	801.9	1212.1	2984.2	6069.9	3329.9	1281.3	799.6	739.7	730.5
80°	433.2	433.2	477.0	504.7	785.8	1832.0	878.0	571.5	479.3	437.8	444.8
82.5°	193.6	205.1	301.9	318.0	380.2	502.4	424.0	364.1	313.4	216.6	195.9
85°	106.0	92.2	159.0	165.9	182.1	186.7	200.5	198.2	182.1	106.0	108.3
87.5°	20.7	25.3	46.1	34.6	39.2	34.6	46.1	64.5	66.8	36.9	30.0
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)