

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: P534071

Luminaire Tested: **GALN-SA9C-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-740-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38250 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

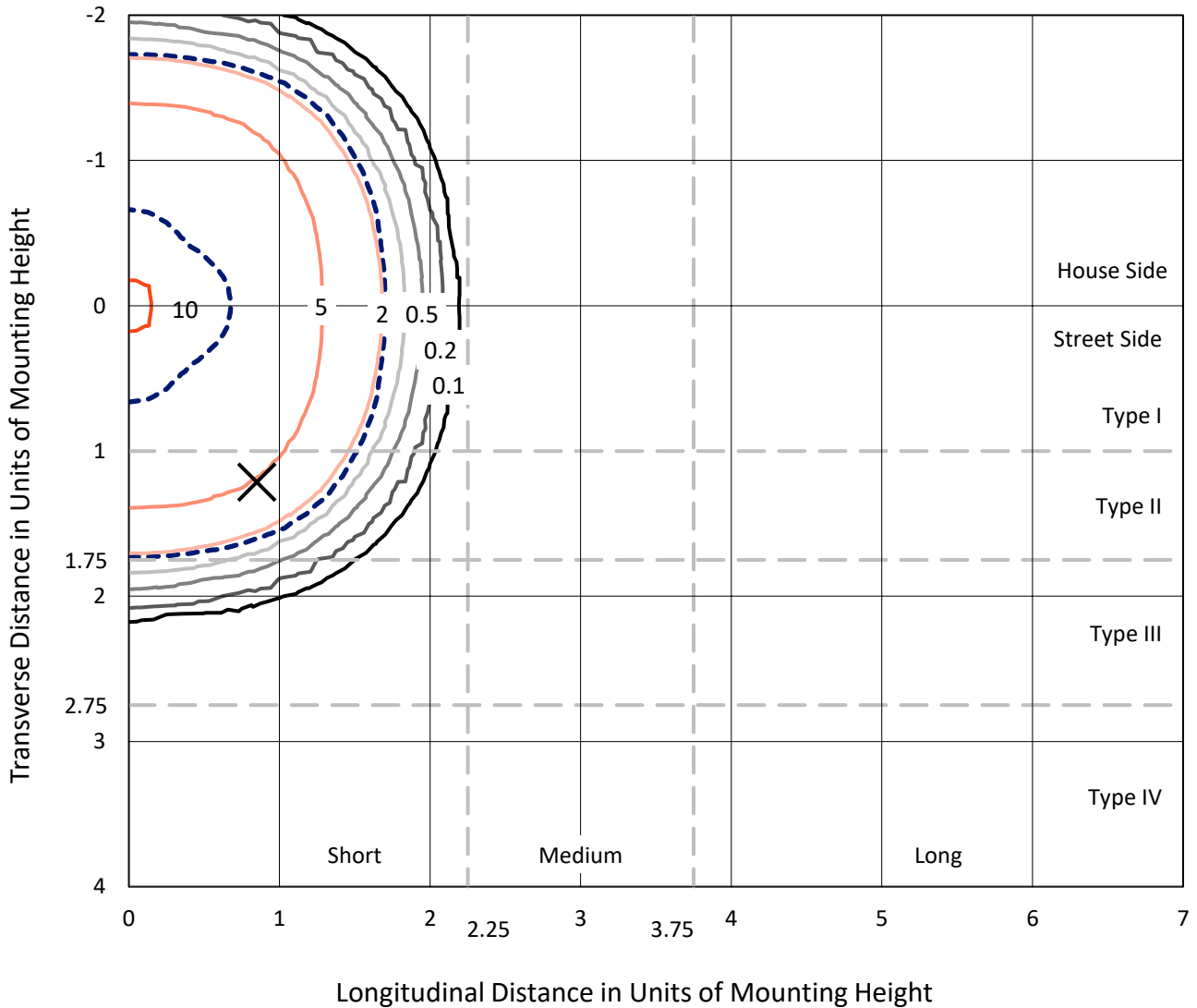
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

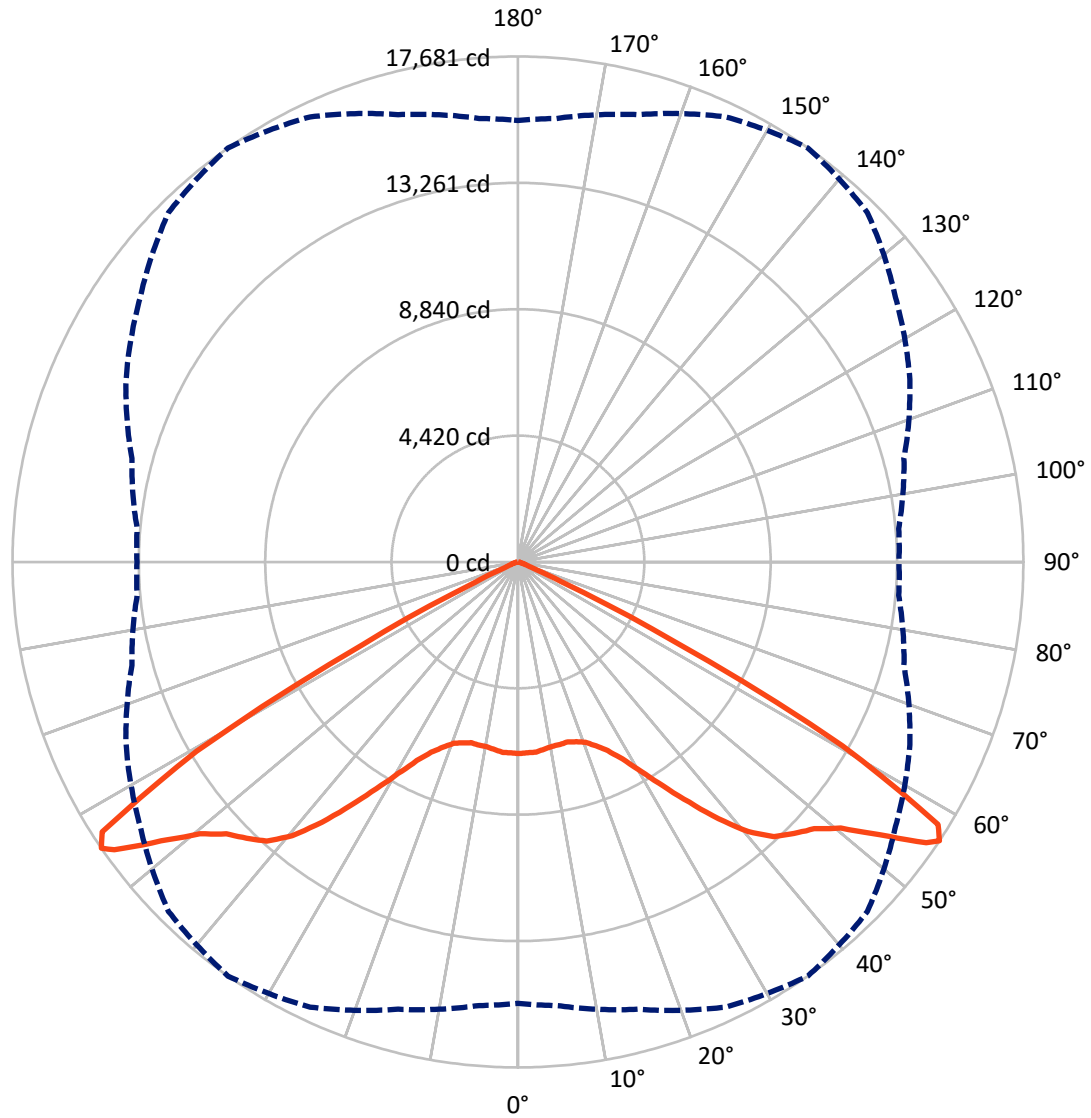
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19125.0	0.0	19125.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19125.0	0.0	19125.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38250.0	0.0	38250.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.9	1.6
10°-20°	1839.0	4.8
20°-30°	3330.2	8.7
30°-40°	6175.4	16.1
40°-50°	10136.5	26.5
50°-60°	13058.8	34.1
60°-70°	2878.0	7.5
70°-80°	167.0	0.4
80°-90°	35.1	0.1
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°	38250.0	100.0
0°-180°	38250.0	100.0

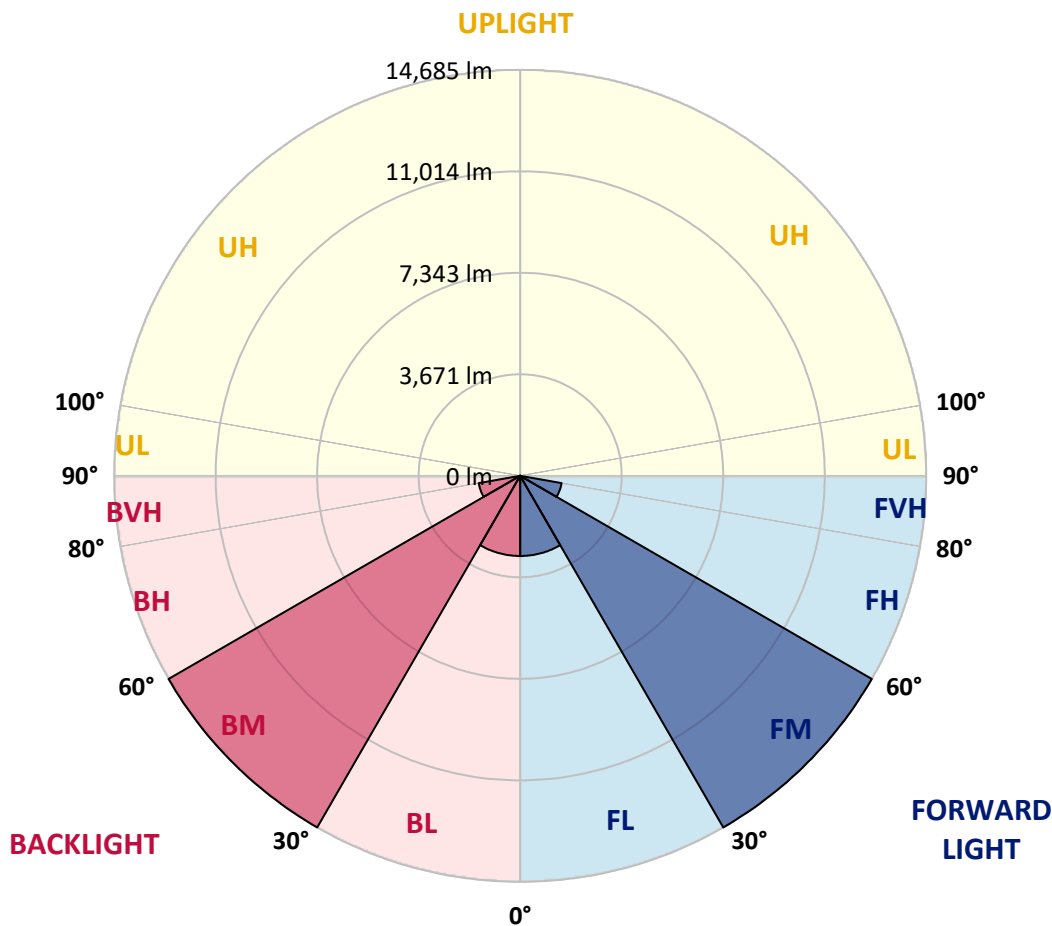


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.6	7.6			
FM (30°-60°)	14685.4	38.4			
FH (60°-80°)	1522.5	4.0			G1/1800
FVH (80°-90°)	17.6	0.0			G1/100
BL (0°-30°)	2899.6	7.6	B4/5000		
BM (30°-60°)	14685.4	38.4	B5		
BH (60°-80°)	1522.5	4.0	B3/2500		G1/1800
BVH (80°-90°)	17.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6702.2	6702.2	6702.2	6702.2	6702.2	6702.2	6702.2	6702.2	6702.2	6702.2	6702.2
2.5°	6716.1	6716.1	6723.0	6729.9	6681.4	6660.6	6667.6	6653.7	6646.8	6667.6	6667.6
5°	6695.3	6695.3	6674.5	6681.4	6681.4	6619.1	6619.1	6632.9	6632.9	6591.3	6577.5
7.5°	6639.8	6626.0	6598.3	6632.9	6612.1	6612.1	6563.6	6528.9	6515.1	6542.8	6515.1
10°	6522.0	6528.9	6556.7	6570.5	6556.7	6598.3	6515.1	6466.6	6418.1	6397.3	6397.3
12.5°	6466.6	6508.2	6466.6	6501.2	6549.7	6515.1	6466.6	6431.9	6362.6	6334.9	6334.9
15°	6459.6	6487.4	6501.2	6549.7	6528.9	6542.8	6445.8	6404.2	6300.2	6251.7	6230.9
17.5°	6452.7	6487.4	6508.2	6598.3	6612.1	6619.1	6542.8	6418.1	6328.0	6279.4	6230.9
20°	6528.9	6542.8	6584.4	6674.5	6729.9	6827.0	6688.4	6556.7	6362.6	6307.2	6286.4
22.5°	6626.0	6695.3	6736.9	6833.9	6979.5	7062.6	6882.4	6716.1	6515.1	6445.8	6362.6
25°	6937.9	6924.0	6993.3	7194.3	7312.1	7374.5	7229.0	6986.4	6723.0	6639.8	6653.7
27.5°	7326.0	7339.9	7402.2	7624.0	7797.3	7894.3	7721.1	7402.2	7145.8	7007.2	6993.3
30°	7832.0	7818.1	7887.4	8185.4	8497.3	8642.9	8337.9	7963.7	7714.1	7533.9	7575.5
32.5°	8365.6	8372.6	8566.6	8837.0	9342.9	9627.1	9135.0	8677.5	8303.3	8178.5	8116.1
35°	9155.8	9190.4	9342.9	9758.8	10320.2	10687.5	10146.9	9599.4	9169.6	8940.9	8968.6
37.5°	10133.0	10098.4	10354.8	10805.3	11394.5	11664.8	11207.3	10583.6	10146.9	9994.4	10091.5
40°	11172.7	11207.3	11339.0	11747.9	12406.4	12586.6	11907.4	11567.7	11186.5	11110.3	11228.1
42.5°	12212.3	12191.5	12288.6	12655.9	13134.1	13009.4	12607.4	12406.4	12136.1	11983.6	12143.0
45°	12974.7	12940.1	13120.3	13369.8	13543.1	13307.4	13127.2	13057.9	12919.3	12752.9	12898.5
47.5°	13716.3	13688.6	13861.9	13931.2	13945.1	13633.2	13667.8	13792.6	13446.0	13099.5	13265.8
50°	14347.1	14298.5	14513.4	14665.9	14631.2	14132.2	14257.0	14132.2	13591.6	13182.7	13120.3
52.5°	15400.6	15421.3	15650.1	15927.3	15844.1	15428.3	15248.1	14679.7	13986.6	13619.3	13404.4
55°	16065.9	15962.0	16357.0	17237.3	17334.3	16904.6	16107.5	15268.9	14229.2	13778.7	13723.3
56°	15442.1	15573.8	16197.6	17181.8	17680.8	17285.8	16128.3	15123.3	13979.7	13369.8	13328.2
57.5°	13855.0	13785.6	14631.2	15975.8	17334.3	17167.9	15560.0	14083.7	12752.9	12066.8	11983.6
60°	8622.1	8823.1	9564.7	11228.1	13044.0	13127.2	11533.1	10264.7	8712.2	8102.3	8247.8
62.5°	3375.4	3202.1	3666.5	4907.1	6154.7	6431.9	5828.9	4844.7	3978.4	3375.4	3333.8
65°	783.2	762.4	859.4	1185.2	1656.5	1919.9	1822.8	1309.9	963.4	914.9	845.6
67.5°	443.6	443.6	422.8	422.8	464.4	492.1	471.3	464.4	485.2	506.0	499.0
70°	311.9	305.0	291.1	298.0	284.2	284.2	305.0	339.6	367.3	367.3	374.3
72.5°	187.1	187.1	187.1	207.9	207.9	207.9	228.7	256.4	263.4	256.4	249.5
75°	83.2	83.2	97.0	117.8	131.7	138.6	159.4	173.3	187.1	173.3	159.4
77.5°	20.8	20.8	34.7	48.5	62.4	76.2	104.0	124.8	131.7	124.8	104.0
80°	6.9	6.9	13.9	34.7	62.4	76.2	104.0	110.9	117.8	104.0	83.2
82.5°	6.9	6.9	13.9	34.7	48.5	62.4	83.2	97.0	104.0	90.1	83.2
85°	0.0	6.9	13.9	27.7	41.6	55.4	55.4	41.6	34.7	20.8	27.7
87.5°	0.0	0.0	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)