

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: P533057

Luminaire Tested: **GALN-SA8C-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533057
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-SA8C-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 28494 lumens
Efficiency: N/A
Efficacy: 66.4 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

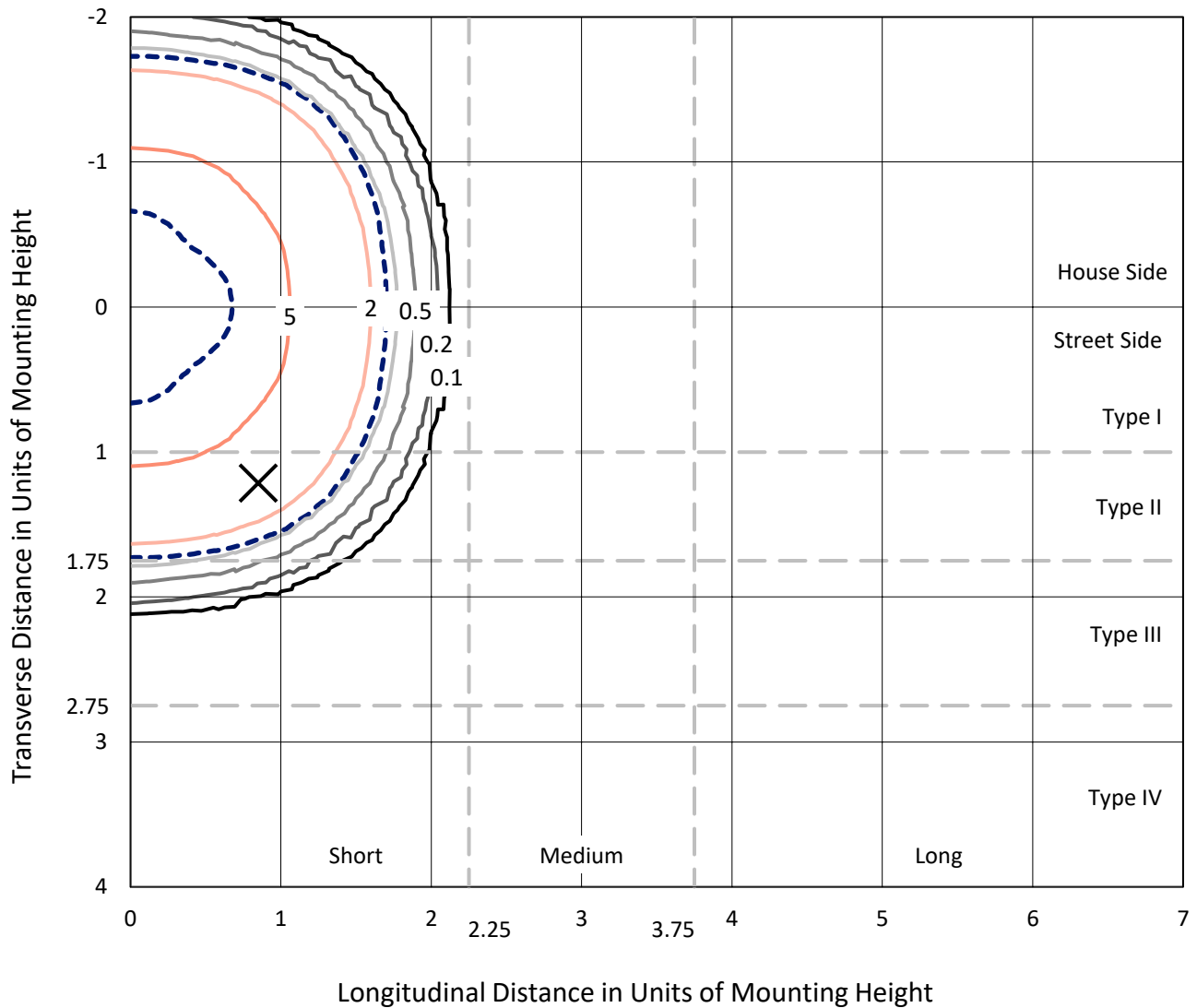
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

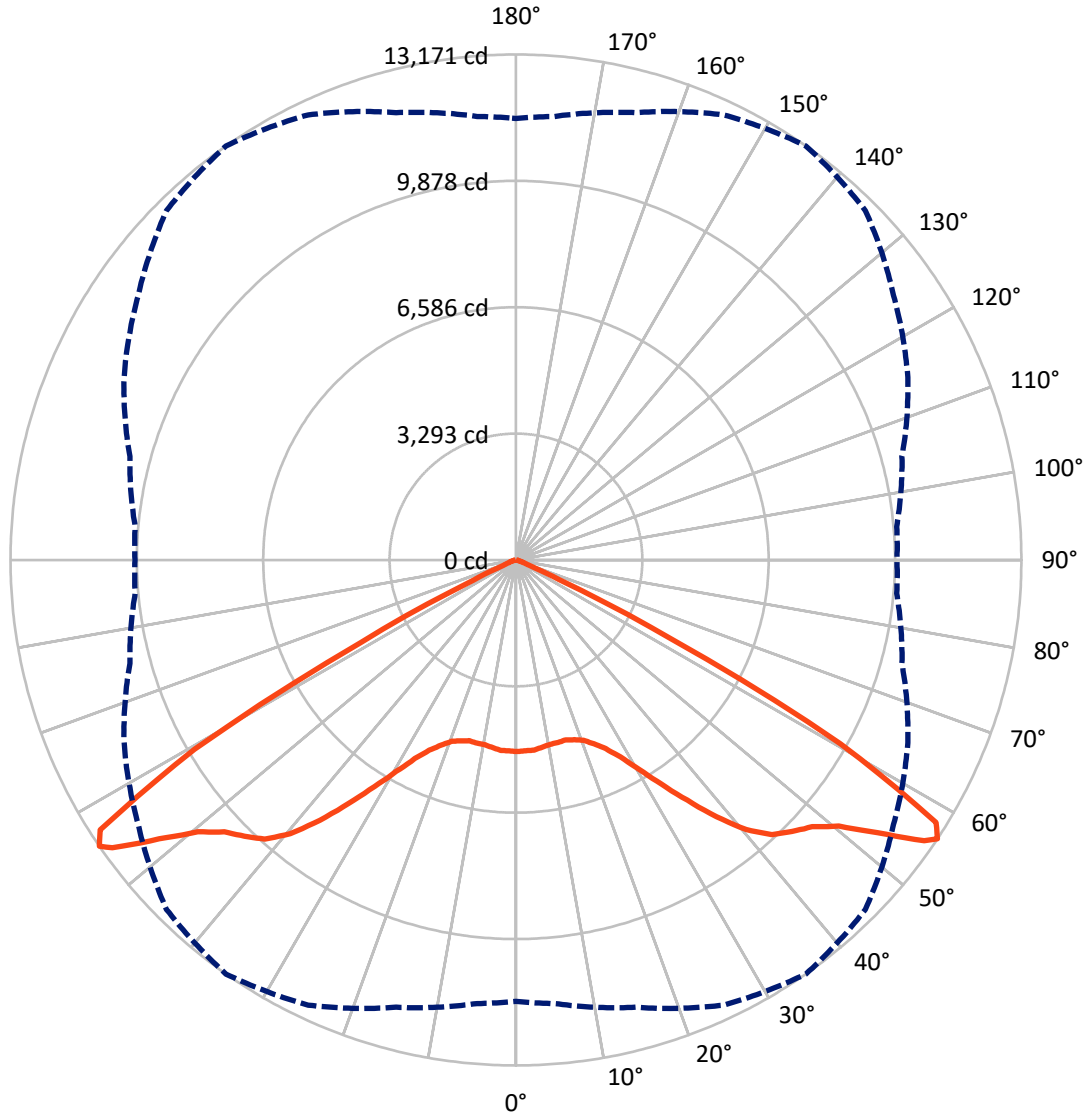
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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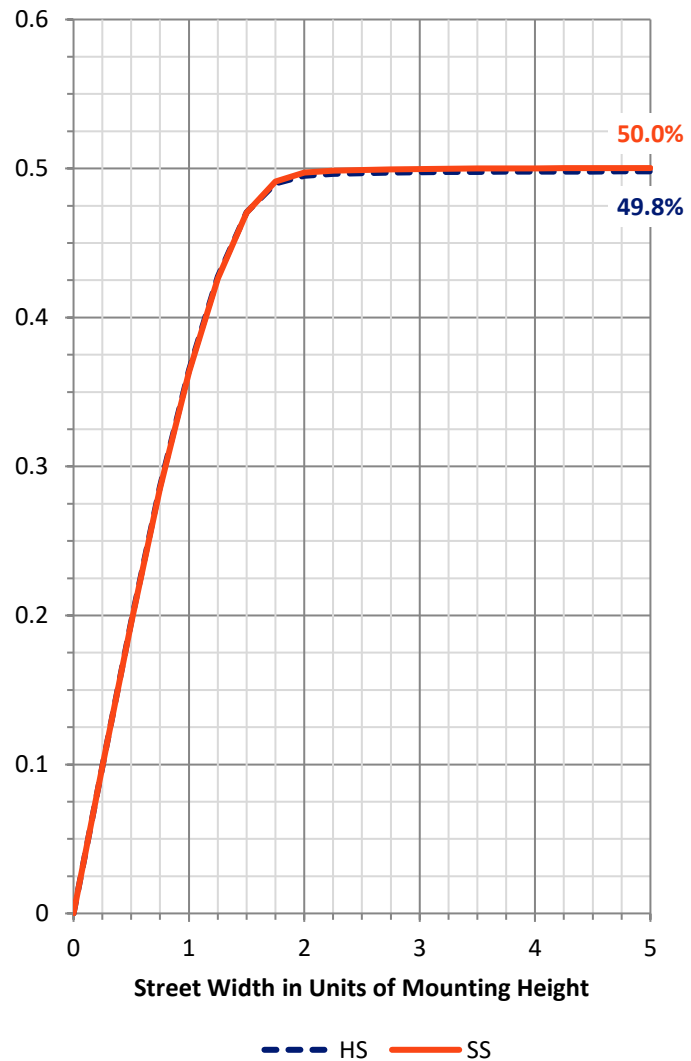
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14247.0	0.0	14247.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14247.0	0.0	14247.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28494.0	0.0	28494.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	1.6
10°-20°	1370.0	4.8
20°-30°	2480.8	8.7
30°-40°	4600.3	16.1
40°-50°	7551.1	26.5
50°-60°	9728.0	34.1
60°-70°	2143.9	7.5
70°-80°	124.4	0.4
80°-90°	26.2	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°	28494.0	100.0
0°-180°	28494.0	100.0

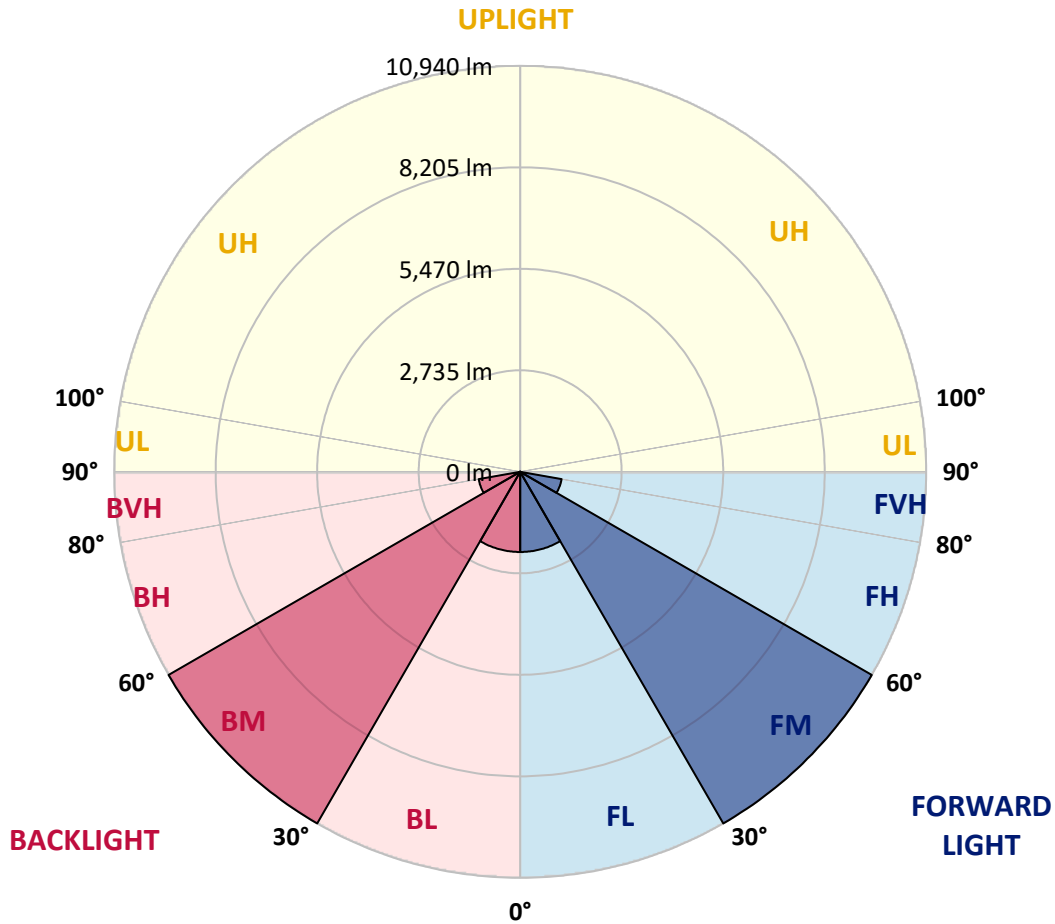


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2160.0	7.6			
FM (30°-60°)	10939.7	38.4			
FH (60°-80°)	1134.2	4.0			G1/1800
FVH (80°-90°)	13.1	0.0			G1/100
BL (0°-30°)	2160.0	7.6	B3/2500		
BM (30°-60°)	10939.7	38.4	B5		
BH (60°-80°)	1134.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	13.1	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°	4992.8	4992.8	4992.8	4992.8	4992.8	4992.8	4992.8	4992.8	4992.8	4992.8	4992.8
2.5°	5003.1	5003.1	5008.3	5013.4	4977.3	4961.8	4966.9	4956.6	4951.5	4966.9	4966.9
5°	4987.6	4987.6	4972.1	4977.3	4977.3	4930.8	4930.8	4941.1	4941.1	4910.2	4899.8
7.5°	4946.3	4936.0	4915.3	4941.1	4925.6	4925.6	4889.5	4863.7	4853.4	4874.0	4853.4
10°	4858.5	4863.7	4884.3	4894.7	4884.3	4915.3	4853.4	4817.2	4781.1	4765.6	4765.6
12.5°	4817.2	4848.2	4817.2	4843.0	4879.2	4853.4	4817.2	4791.4	4739.8	4719.1	4719.1
15°	4812.1	4832.7	4843.0	4879.2	4863.7	4874.0	4801.7	4770.7	4693.3	4657.2	4641.7
17.5°	4806.9	4832.7	4848.2	4915.3	4925.6	4930.8	4874.0	4781.1	4714.0	4677.8	4641.7
20°	4863.7	4874.0	4905.0	4972.1	5013.4	5085.7	4982.4	4884.3	4739.8	4698.5	4683.0
22.5°	4936.0	4987.6	5018.6	5090.9	5199.3	5261.2	5127.0	5003.1	4853.4	4801.7	4739.8
25°	5168.3	5158.0	5209.6	5359.3	5447.1	5493.6	5385.2	5204.5	5008.3	4946.3	4956.6
27.5°	5457.4	5467.8	5514.2	5679.5	5808.5	5880.8	5751.7	5514.2	5323.2	5219.9	5209.6
30°	5834.4	5824.0	5875.7	6097.7	6330.0	6438.4	6211.3	5932.5	5746.6	5612.3	5643.3
32.5°	6231.9	6237.1	6381.6	6583.0	6959.9	7171.6	6805.0	6464.3	6185.4	6092.5	6046.0
35°	6820.5	6846.3	6959.9	7269.7	7687.9	7961.6	7558.8	7151.0	6830.8	6660.5	6681.1
37.5°	7548.5	7522.7	7713.7	8049.3	8488.2	8689.6	8348.8	7884.1	7558.8	7445.3	7517.5
40°	8323.0	8348.8	8446.9	8751.5	9242.0	9376.3	8870.3	8617.3	8333.3	8276.5	8364.3
42.5°	9097.5	9082.0	9154.3	9427.9	9784.2	9691.2	9391.8	9242.0	9040.7	8927.1	9045.8
45°	9665.4	9639.6	9773.8	9959.7	10088.8	9913.2	9779.0	9727.4	9624.1	9500.2	9608.6
47.5°	10217.9	10197.2	10326.3	10377.9	10388.2	10155.9	10181.7	10274.7	10016.5	9758.3	9882.3
50°	10687.7	10651.6	10811.6	10925.2	10899.4	10527.7	10620.6	10527.7	10124.9	9820.3	9773.8
52.5°	11472.5	11488.0	11658.4	11864.9	11803.0	11493.2	11358.9	10935.5	10419.2	10145.6	9985.5
55°	11968.2	11890.7	12185.0	12840.7	12913.0	12592.9	11999.1	11374.4	10599.9	10264.3	10223.0
56°	11503.5	11601.6	12066.3	12799.4	13171.2	12876.9	12014.6	11266.0	10414.1	9959.7	9928.7
57.5°	10321.1	10269.5	10899.4	11901.1	12913.0	12789.1	11591.3	10491.5	9500.2	8989.0	8927.1
60°	6423.0	6572.7	7125.1	8364.3	9717.0	9779.0	8591.5	7646.6	6490.1	6035.7	6144.1
62.5°	2514.5	2385.4	2731.3	3655.5	4584.9	4791.4	4342.2	3609.0	2963.6	2514.5	2483.5
65°	583.4	567.9	640.2	882.9	1234.0	1430.2	1357.9	975.8	717.7	681.5	629.9
67.5°	330.4	330.4	315.0	315.0	345.9	366.6	351.1	345.9	361.4	376.9	371.7
70°	232.3	227.2	216.9	222.0	211.7	211.7	227.2	253.0	273.6	273.6	278.8
72.5°	139.4	139.4	139.4	154.9	154.9	154.9	170.4	191.0	196.2	191.0	185.9
75°	62.0	62.0	72.3	87.8	98.1	103.3	118.8	129.1	139.4	129.1	118.8
77.5°	15.5	15.5	25.8	36.1	46.5	56.8	77.4	92.9	98.1	92.9	77.4
80°	5.2	5.2	10.3	25.8	46.5	56.8	77.4	82.6	87.8	77.4	62.0
82.5°	5.2	5.2	10.3	25.8	36.1	46.5	62.0	72.3	77.4	67.1	62.0
85°	0.0	5.2	10.3	20.7	31.0	41.3	41.3	31.0	25.8	15.5	20.7
87.5°	0.0	0.0	5.2	5.2	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)