

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: P533213

Luminaire Tested: **GALN-SA8C-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533213
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-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 25046 lumens
Efficiency: N/A
Efficacy: 58.4 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

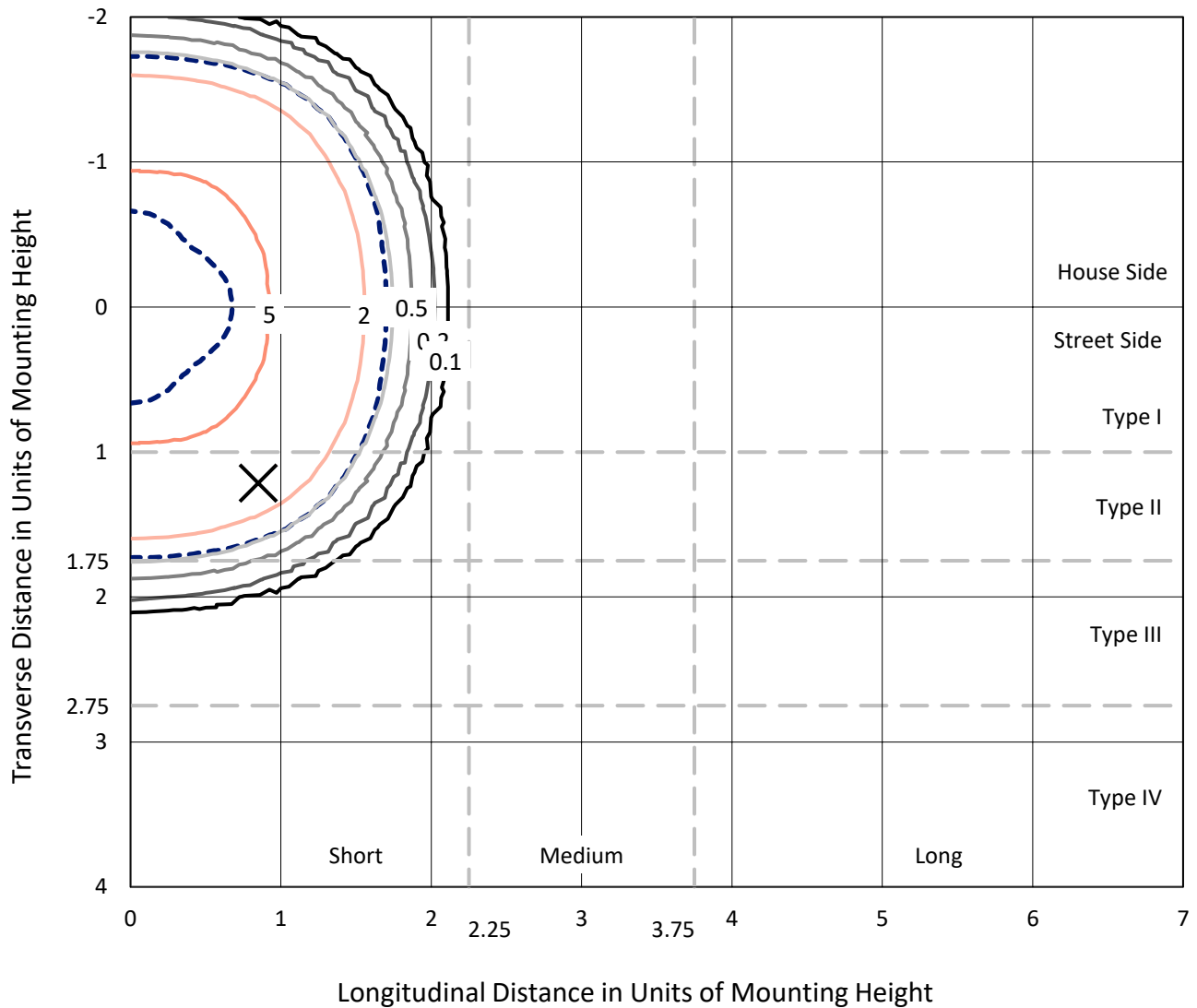
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

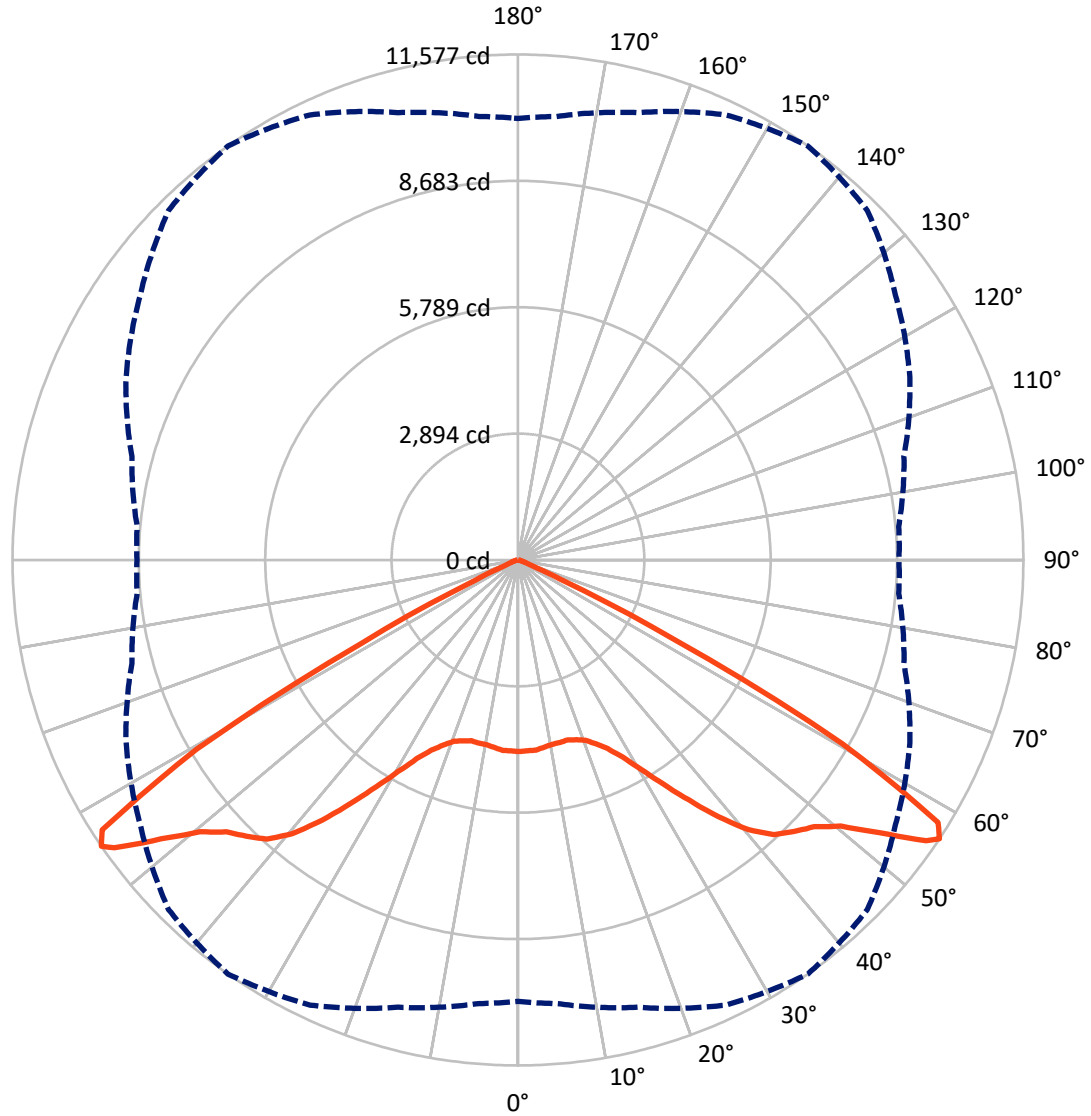
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	12523.0	0.0	12523.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12523.0	0.0	12523.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25046.0	0.0	25046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	1.6
10°-20°	1204.2	4.8
20°-30°	2180.6	8.7
30°-40°	4043.6	16.1
40°-50°	6637.4	26.5
50°-60°	8550.9	34.1
60°-70°	1884.5	7.5
70°-80°	109.3	0.4
80°-90°	23.0	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°	25046.0	100.0
0°-180°	25046.0	100.0

Coefficient of Utilization

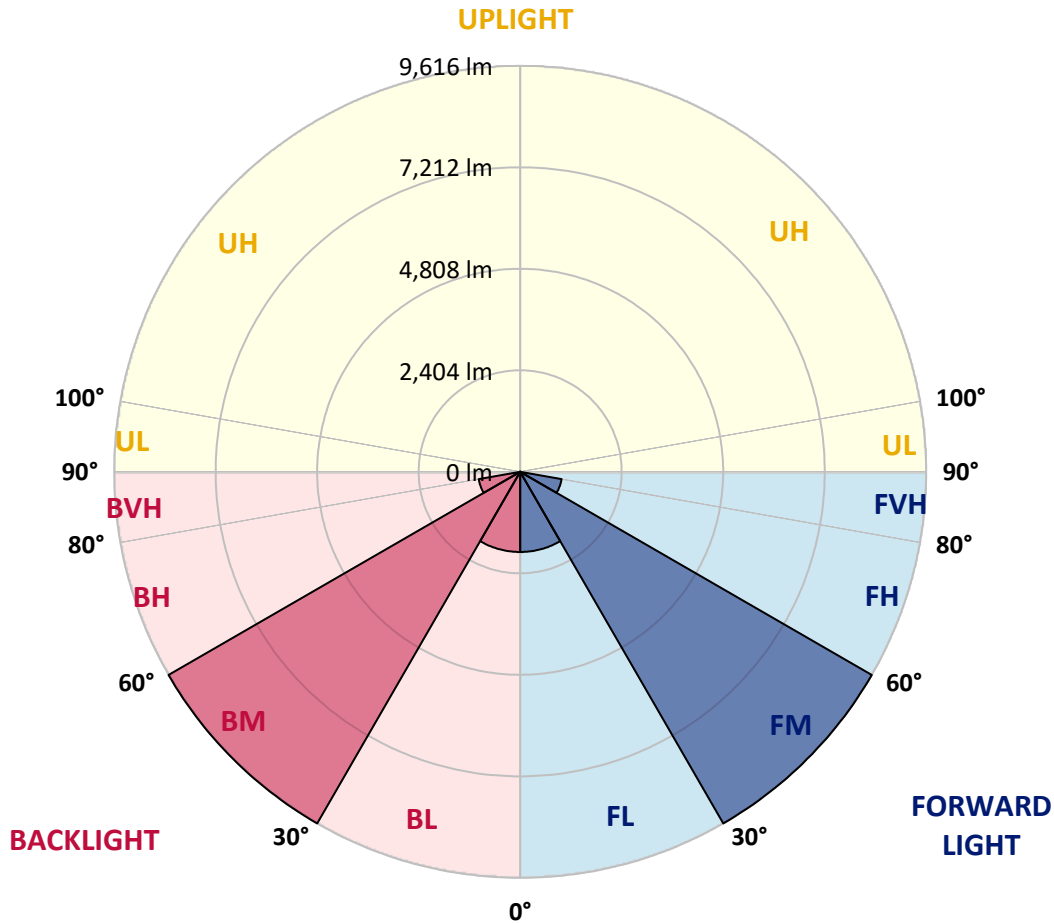


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.6	7.6			
FM (30°-60°)	9615.9	38.4			
FH (60°-80°)	996.9	4.0			G1/1800
FVH (80°-90°)	11.5	0.0			G1/100
BL (0°-30°)	1898.6	7.6	B3/2500		
BM (30°-60°)	9615.9	38.4	B5		
BH (60°-80°)	996.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	11.5	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°	4388.6	4388.6	4388.6	4388.6	4388.6	4388.6	4388.6	4388.6	4388.6	4388.6	4388.6
2.5°	4397.7	4397.7	4402.2	4406.8	4375.0	4361.4	4365.9	4356.8	4352.3	4365.9	4365.9
5°	4384.1	4384.1	4370.4	4375.0	4375.0	4334.1	4334.1	4343.2	4343.2	4316.0	4306.9
7.5°	4347.8	4338.7	4320.5	4343.2	4329.6	4329.6	4297.8	4275.1	4266.1	4284.2	4266.1
10°	4270.6	4275.1	4293.3	4302.4	4293.3	4320.5	4266.1	4234.3	4202.5	4188.9	4188.9
12.5°	4234.3	4261.5	4234.3	4257.0	4288.8	4266.1	4234.3	4211.6	4166.2	4148.1	4148.1
15°	4229.8	4247.9	4257.0	4288.8	4275.1	4284.2	4220.7	4193.4	4125.4	4093.6	4080.0
17.5°	4225.2	4247.9	4261.5	4320.5	4329.6	4334.1	4284.2	4202.5	4143.5	4111.8	4080.0
20°	4275.1	4284.2	4311.4	4370.4	4406.8	4470.3	4379.5	4293.3	4166.2	4129.9	4116.3
22.5°	4338.7	4384.1	4411.3	4474.8	4570.1	4624.6	4506.6	4397.7	4266.1	4220.7	4166.2
25°	4542.9	4533.8	4579.2	4710.8	4788.0	4828.8	4733.5	4574.7	4402.2	4347.8	4356.8
27.5°	4797.1	4806.1	4847.0	4992.2	5105.7	5169.2	5055.7	4847.0	4679.1	4588.3	4579.2
30°	5128.4	5119.3	5164.7	5359.8	5564.0	5659.3	5459.7	5214.6	5051.2	4933.2	4960.4
32.5°	5477.8	5482.3	5609.4	5786.4	6117.7	6303.8	5981.6	5682.0	5437.0	5355.3	5314.4
35°	5995.2	6017.9	6117.7	6390.0	6757.6	6998.2	6644.2	6285.6	6004.3	5854.5	5872.6
37.5°	6635.1	6612.4	6780.3	7075.3	7461.1	7638.1	7338.5	6930.1	6644.2	6544.3	6607.9
40°	7315.8	7338.5	7424.8	7692.5	8123.7	8241.7	7796.9	7574.5	7324.9	7275.0	7352.1
42.5°	7996.6	7983.0	8046.5	8287.1	8600.2	8518.5	8255.3	8123.7	7946.7	7846.8	7951.2
45°	8495.8	8473.1	8591.1	8754.5	8868.0	8713.7	8595.7	8550.3	8459.5	8350.6	8445.9
47.5°	8981.4	8963.3	9076.7	9122.1	9131.2	8927.0	8949.7	9031.3	8804.4	8577.5	8686.4
50°	9394.4	9362.6	9503.3	9603.2	9580.5	9253.7	9335.4	9253.7	8899.7	8632.0	8591.1
52.5°	10084.2	10097.9	10247.6	10429.2	10374.7	10102.4	9984.4	9612.3	9158.4	8917.9	8777.2
55°	10519.9	10451.9	10710.5	11286.9	11350.4	11069.1	10547.2	9998.0	9317.3	9022.3	8986.0
56°	10111.5	10197.7	10606.2	11250.6	11577.4	11318.7	10560.8	9902.7	9153.9	8754.5	8727.3
57.5°	9072.2	9026.8	9580.5	10460.9	11350.4	11241.5	10188.6	9222.0	8350.6	7901.3	7846.8
60°	5645.7	5777.3	6262.9	7352.1	8541.2	8595.7	7551.8	6721.3	5704.7	5305.3	5400.7
62.5°	2210.2	2096.7	2400.8	3213.2	4030.1	4211.6	3816.8	3172.3	2605.0	2210.2	2183.0
65°	512.8	499.2	562.8	776.1	1084.7	1257.1	1193.6	857.8	630.8	599.1	553.7
67.5°	290.5	290.5	276.8	276.8	304.1	322.2	308.6	304.1	317.7	331.3	326.8
70°	204.2	199.7	190.6	195.1	186.1	186.1	199.7	222.4	240.5	240.5	245.1
72.5°	122.5	122.5	122.5	136.2	136.2	136.2	149.8	167.9	172.5	167.9	163.4
75°	54.5	54.5	63.5	77.2	86.2	90.8	104.4	113.5	122.5	113.5	104.4
77.5°	13.6	13.6	22.7	31.8	40.8	49.9	68.1	81.7	86.2	81.7	68.1
80°	4.5	4.5	9.1	22.7	40.8	49.9	68.1	72.6	77.2	68.1	54.5
82.5°	4.5	4.5	9.1	22.7	31.8	40.8	54.5	63.5	68.1	59.0	54.5
85°	0.0	4.5	9.1	18.2	27.2	36.3	36.3	27.2	22.7	13.6	18.2
87.5°	0.0	0.0	4.5	4.5	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)