

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: P533215

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
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-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28670 lumens
Efficiency: N/A
Efficacy: 66.8 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

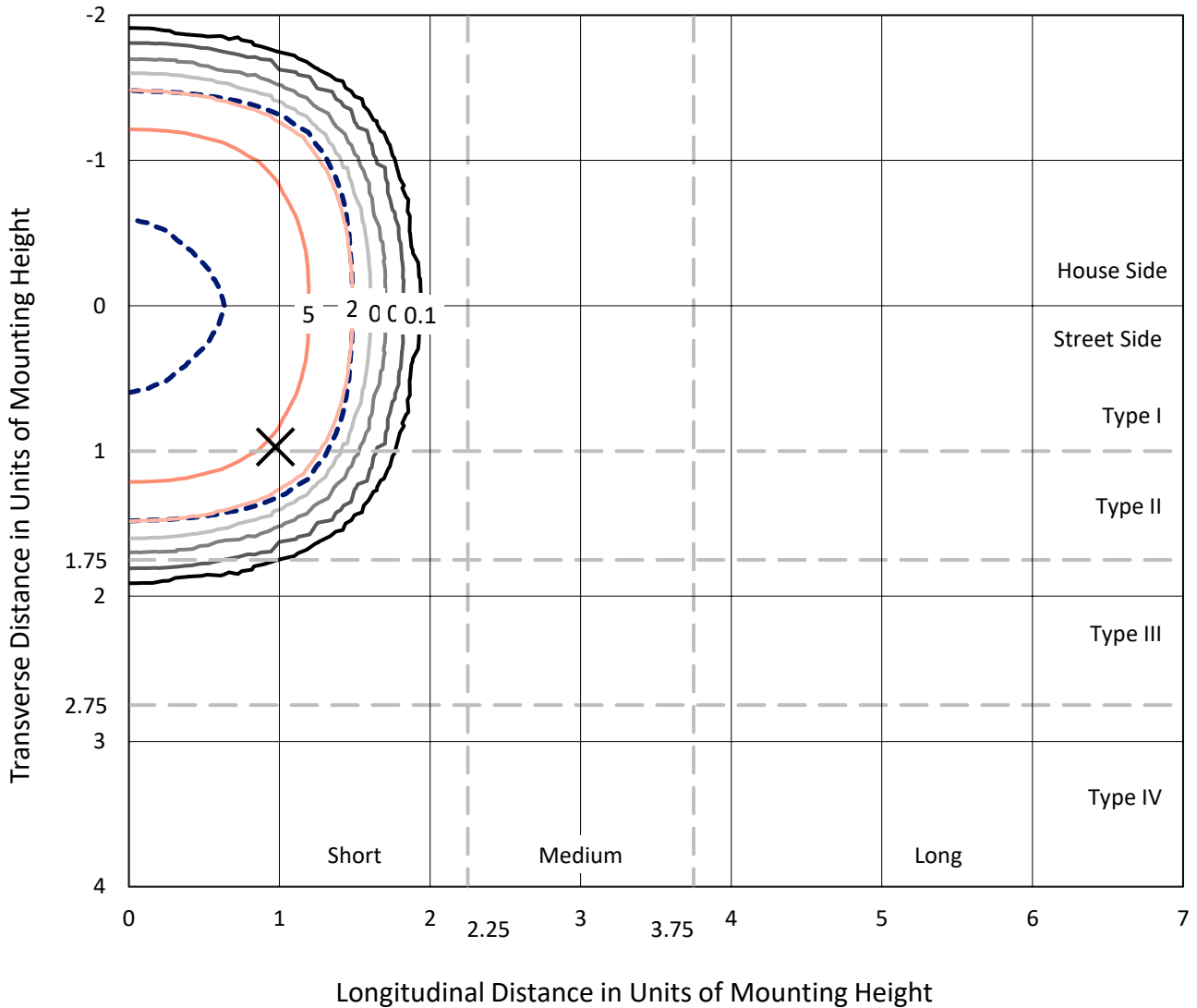
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

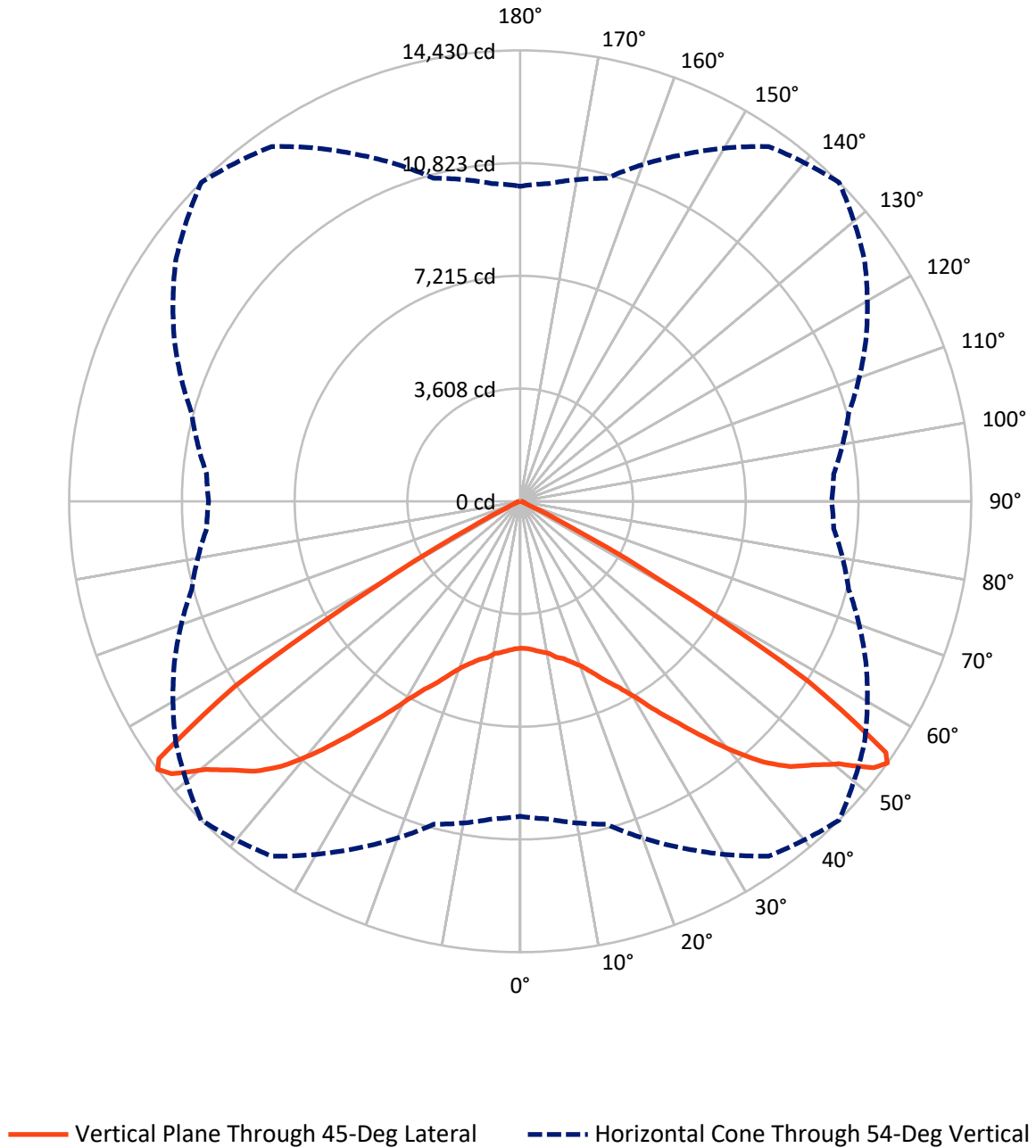
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14335.0	0.0	14335.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14335.0	0.0	14335.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28670.0	0.0	28670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.1	1.6
10°-20°	1490.0	5.2
20°-30°	2920.4	10.2
30°-40°	5251.4	18.3
40°-50°	8989.4	31.4
50°-60°	8698.1	30.3
60°-70°	744.6	2.6
70°-80°	88.3	0.3
80°-90°	27.7	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°	28670.0	100.0
0°-180°	28670.0	100.0

Coefficient of Utilization



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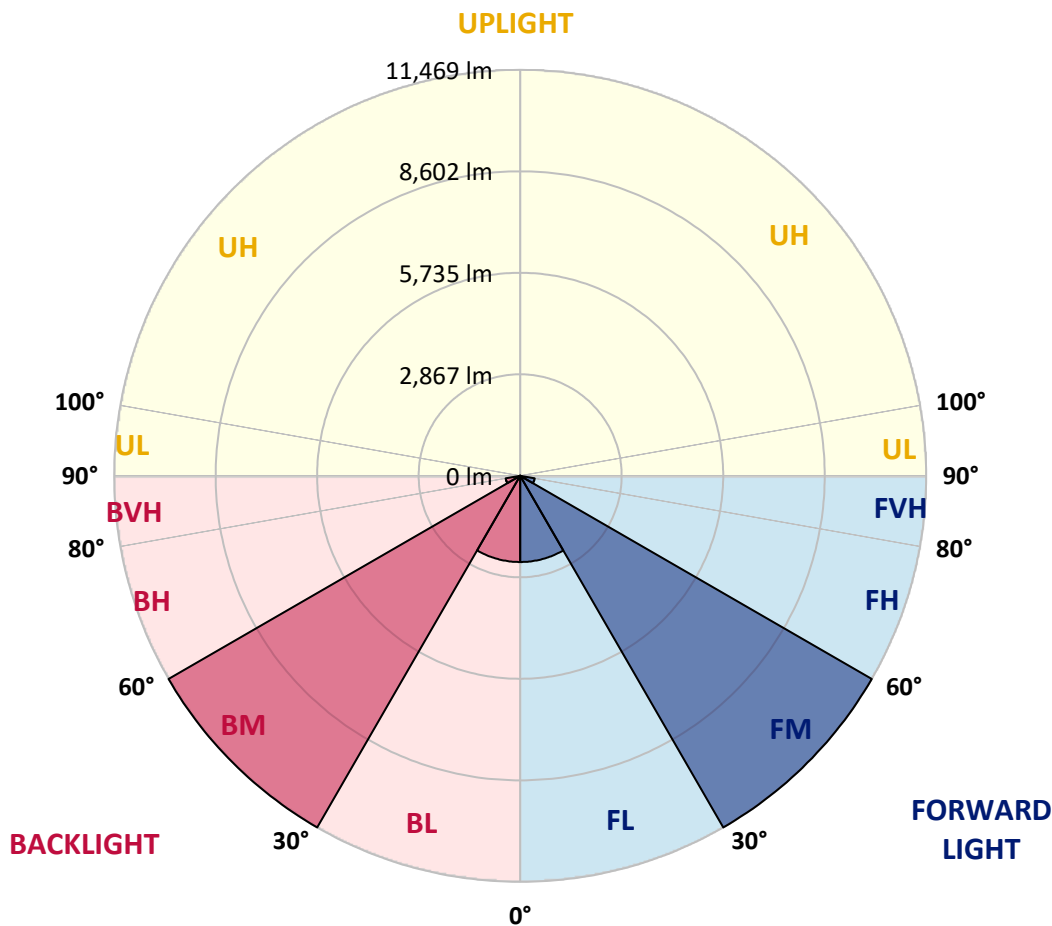
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2435.3	8.5			
FM (30°-60°)	11469.5	40.0			
FH (60°-80°)	416.4	1.5			G0/660
FVH (80°-90°)	13.8	0.0			G1/100
BL (0°-30°)	2435.3	8.5	B3/2500		
BM (30°-60°)	11469.5	40.0	B5		
BH (60°-80°)	416.4	1.5	B1/500		G0/660
BVH (80°-90°)	13.8	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°	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0	4701.0
2.5°	4723.7	4750.9	4732.8	4746.4	4746.4	4723.7	4737.3	4682.8	4719.2	4691.9	4696.4
5°	4796.4	4791.8	4791.8	4796.4	4778.2	4787.3	4769.1	4750.9	4737.3	4719.2	4773.7
7.5°	4887.2	4887.2	4855.4	4864.5	4855.4	4869.0	4832.7	4796.4	4782.7	4769.1	4760.0
10°	4973.5	4964.4	4950.8	4991.7	4959.9	4941.7	4923.5	4900.8	4850.9	4832.7	4814.5
12.5°	5100.7	5096.1	5078.0	5118.9	5100.7	5118.9	5050.7	4991.7	4982.6	4923.5	4955.3
15°	5250.6	5291.4	5259.7	5259.7	5250.6	5227.9	5200.6	5173.4	5091.6	5068.9	5073.4
17.5°	5445.9	5432.3	5436.8	5436.8	5482.2	5423.2	5368.7	5300.5	5259.7	5246.0	5200.6
20°	5632.1	5650.3	5645.7	5677.5	5704.8	5641.2	5582.1	5573.1	5459.5	5477.7	5414.1
22.5°	5959.1	5945.5	5968.2	5990.9	5972.8	5963.7	5909.2	5841.0	5741.1	5695.7	5686.6
25°	6304.3	6281.6	6240.7	6295.2	6322.5	6363.4	6258.9	6222.6	6068.1	6000.0	6004.5
27.5°	6599.5	6631.3	6676.8	6699.5	6767.6	6754.0	6681.3	6563.2	6445.1	6367.9	6317.9
30°	7003.8	7022.0	7099.2	7131.0	7249.1	7280.9	7167.3	7031.0	6822.1	6722.2	6663.1
32.5°	7376.2	7503.4	7498.9	7657.8	7848.6	7980.3	7775.9	7567.0	7358.1	7240.0	7135.5
35°	7980.3	7957.6	8089.3	8257.4	8566.2	8716.1	8493.6	8252.8	7934.9	7744.1	7662.4
37.5°	8543.5	8552.6	8729.8	8997.7	9352.0	9583.7	9388.3	8993.2	8666.2	8420.9	8307.3
40°	9361.1	9379.3	9560.9	9865.3	10265.0	10514.8	10287.7	9888.0	9451.9	9261.2	9261.2
42.5°	10319.5	10396.7	10514.8	10778.2	11137.0	11414.1	11209.7	10896.3	10455.7	10210.5	10246.8
45°	11305.1	11341.4	11418.6	11809.2	11977.3	12113.6	11922.8	11777.4	11482.2	11182.4	11132.5
47.5°	12227.1	12240.7	12467.8	12590.5	12722.2	12608.6	12731.3	12540.5	12208.9	11918.3	11859.2
50°	12635.9	12613.2	12935.7	13308.1	13408.0	13208.2	13103.7	12976.5	12472.4	12122.6	11968.2
52.5°	11445.9	11577.6	12177.1	13212.7	13994.0	14162.0	13553.4	12967.5	12027.3	11346.0	11241.5
54°	10083.3	10205.9	10701.0	12236.2	13862.2	14430.0	13448.9	12204.4	10878.1	10069.6	9965.2
55°	8734.3	8598.0	9497.4	11064.4	13244.5	14193.8	13035.6	11218.8	9701.7	8961.4	8816.1
57.5°	4728.2	4750.9	5509.5	6990.2	9306.6	10882.7	9610.9	7589.7	5732.0	4900.8	4828.2
60°	1498.9	1535.2	1866.8	2825.1	4446.6	5309.6	4551.1	3047.7	2107.5	1689.6	1621.5
62.5°	467.8	486.0	531.4	790.3	1217.3	1739.6	1362.6	817.6	608.6	558.7	567.8
65°	286.1	286.1	290.7	308.9	363.4	422.4	408.8	358.8	345.2	336.1	331.6
67.5°	186.2	181.7	190.8	204.4	213.5	218.0	231.6	245.3	240.7	231.6	231.6
70°	113.6	109.0	118.1	136.3	140.8	149.9	163.5	181.7	177.1	168.1	172.6
72.5°	63.6	63.6	68.1	81.8	95.4	104.5	118.1	131.7	136.3	131.7	131.7
75°	22.7	27.3	36.3	50.0	59.0	72.7	86.3	99.9	113.6	104.5	99.9
77.5°	9.1	9.1	18.2	31.8	45.4	59.0	81.8	95.4	104.5	95.4	86.3
80°	4.5	4.5	13.6	27.3	40.9	54.5	68.1	81.8	86.3	77.2	68.1
82.5°	4.5	4.5	13.6	27.3	40.9	50.0	72.7	81.8	90.8	81.8	68.1
85°	0.0	4.5	13.6	27.3	36.3	40.9	40.9	27.3	22.7	13.6	13.6
87.5°	0.0	0.0	4.5	0.0	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)