

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: P531810

Luminaire Tested: **GALN-SA7A-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20667 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

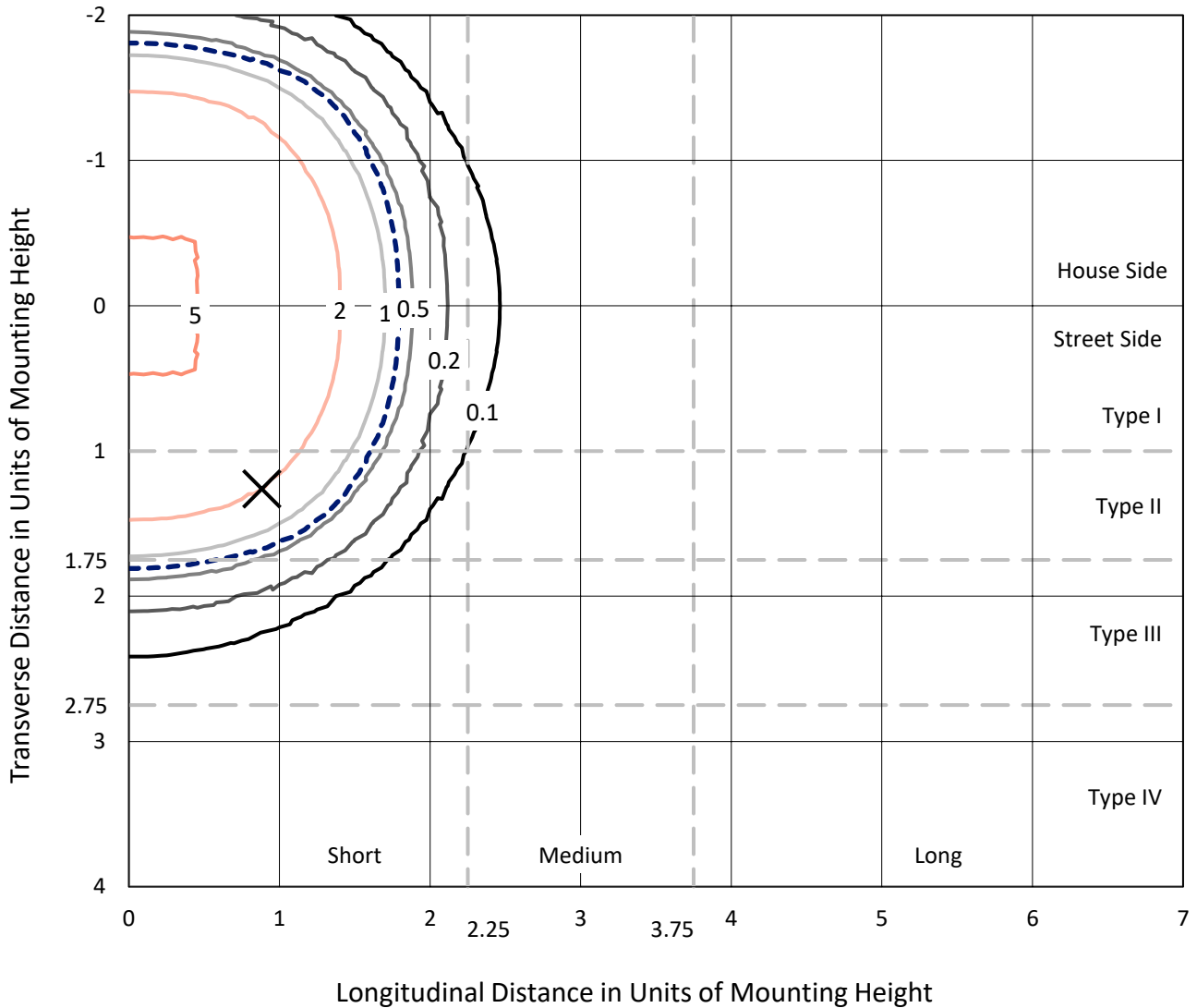
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

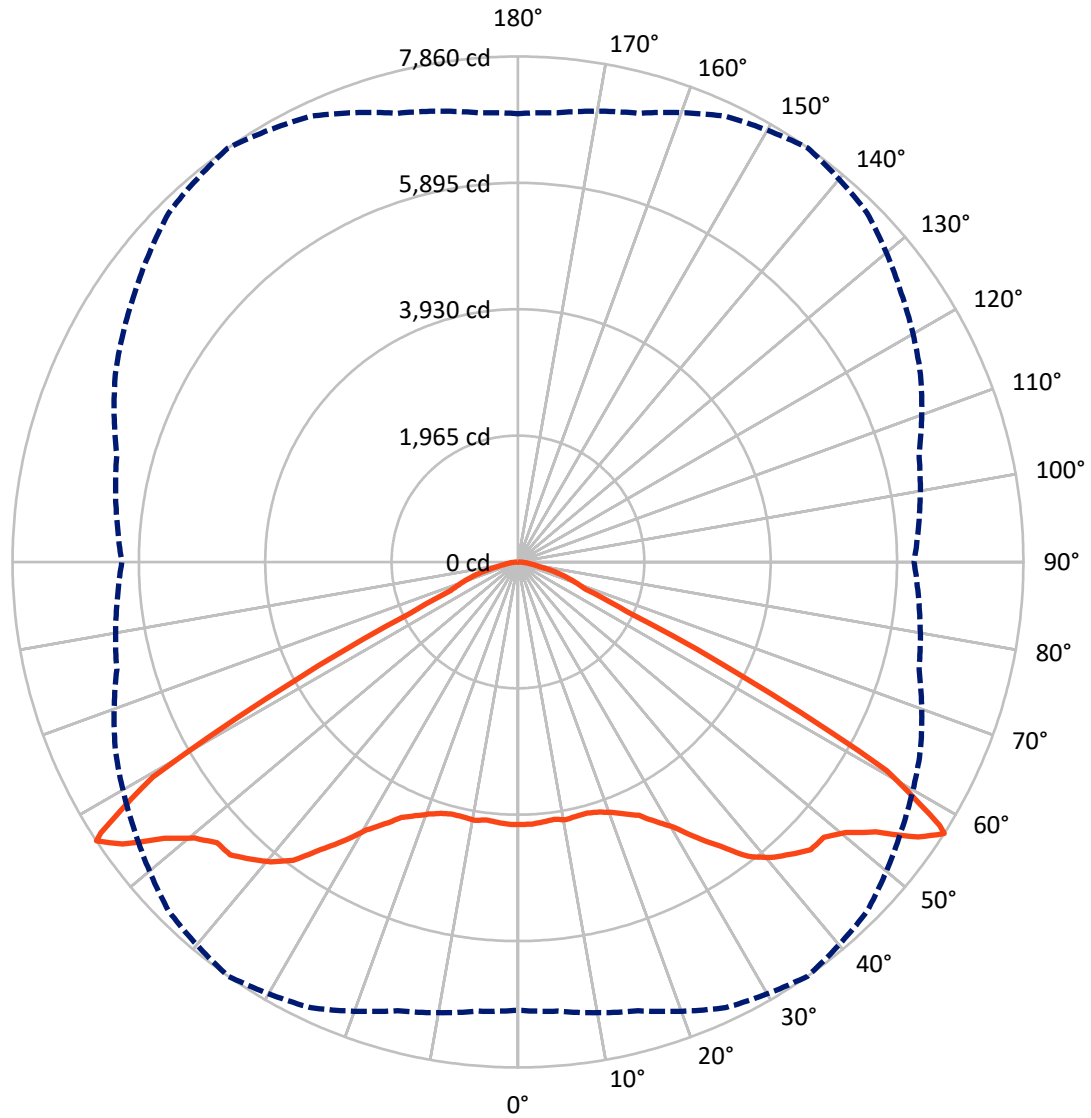
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10333.5	0.0	10333.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10333.5	0.0	10333.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20667.0	0.0	20667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	1.9
10°-20°	1146.0	5.5
20°-30°	2001.5	9.7
30°-40°	3279.6	15.9
40°-50°	4808.6	23.3
50°-60°	6056.8	29.3
60°-70°	2277.9	11.0
70°-80°	605.7	2.9
80°-90°	103.9	0.5
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°	20667.0	100.0
0°-180°	20667.0	100.0

Coefficient of Utilization

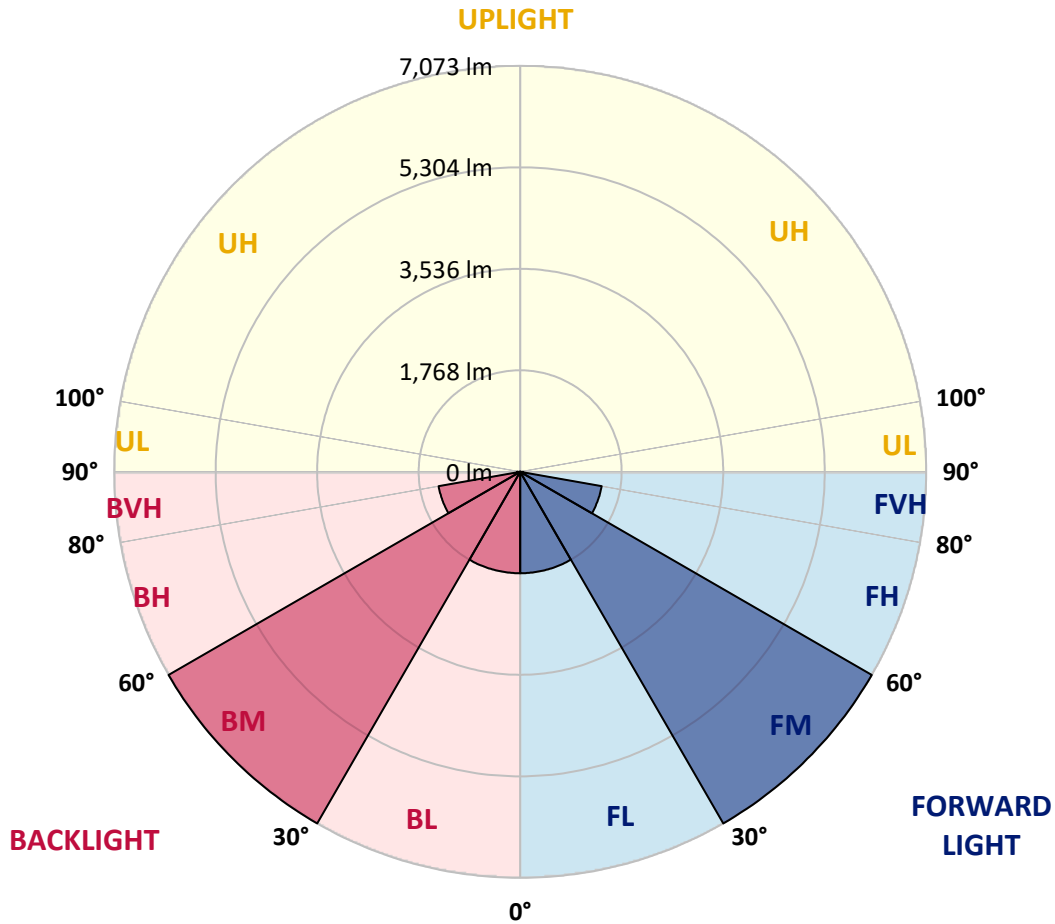


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.3	8.6			
FM (30°-60°)	7072.5	34.2			
FH (60°-80°)	1441.8	7.0			G1/1800
FVH (80°-90°)	51.9	0.3			G1/100
BL (0°-30°)	1767.3	8.6	B3/2500		
BM (30°-60°)	7072.5	34.2	B4/8500		
BH (60°-80°)	1441.8	7.0	B3/2500		G1/1800
BVH (80°-90°)	51.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6	4081.6
2.5°	4061.2	4101.9	4084.1	4073.9	4081.6	4068.8	4048.5	4071.4	4066.3	4045.9	4038.3
5°	4051.0	4081.6	4061.2	4081.6	4061.2	4096.9	4086.7	4048.5	4094.3	4051.0	4066.3
7.5°	4043.4	4053.6	4058.7	4048.5	4040.8	4084.1	4061.2	4043.4	4017.9	4010.3	4023.0
10°	4025.6	4051.0	4012.8	4063.8	4073.9	4043.4	4043.4	4010.3	3989.9	3977.2	4020.5
12.5°	4071.4	4028.1	4023.0	4048.5	4056.1	4068.8	4033.2	4015.4	3977.2	3982.3	3974.6
15°	4017.9	4035.7	4038.3	4043.4	4051.0	4081.6	4048.5	4010.3	3995.0	3941.5	3946.6
17.5°	4038.3	4020.5	4038.3	4096.9	4086.7	4109.6	4073.9	4015.4	3979.7	3949.2	3989.9
20°	4073.9	4066.3	4073.9	4145.2	4158.0	4178.3	4147.8	4094.3	4025.6	3989.9	4010.3
22.5°	4112.1	4107.0	4112.1	4180.9	4254.7	4280.2	4249.6	4124.9	4089.2	4023.0	4000.1
25°	4180.9	4186.0	4239.4	4315.8	4364.2	4412.6	4356.6	4267.5	4152.9	4112.1	4063.8
27.5°	4333.7	4346.4	4376.9	4489.0	4573.0	4616.3	4537.4	4415.1	4343.8	4259.8	4247.1
30°	4522.1	4522.1	4575.5	4672.3	4786.9	4853.1	4756.3	4611.2	4524.6	4478.8	4450.8
32.5°	4771.6	4743.6	4764.0	4934.6	5112.8	5168.8	5039.0	4860.7	4723.2	4662.1	4641.7
35°	4985.5	5003.3	5049.1	5232.5	5431.1	5560.9	5357.2	5125.5	4985.5	4929.5	4919.3
37.5°	5263.0	5293.6	5316.5	5568.6	5807.9	5856.3	5660.2	5474.4	5303.8	5257.9	5232.5
40°	5655.1	5634.8	5642.4	5828.3	6044.7	6075.3	5881.8	5749.4	5609.3	5581.3	5581.3
42.5°	5978.5	5955.6	5981.1	6049.8	6215.3	6192.4	6085.5	5988.7	5930.1	5899.6	5930.1
45°	6174.6	6169.5	6215.3	6266.2	6383.4	6307.0	6222.9	6238.2	6182.2	6131.3	6128.7
47.5°	6388.4	6355.3	6411.4	6487.8	6398.6	6363.0	6357.9	6391.0	6373.2	6284.1	6256.0
50°	6492.8	6480.1	6569.2	6658.3	6610.0	6528.5	6546.3	6599.8	6370.6	6251.0	6182.2
52.5°	6772.9	6775.5	6946.1	6994.4	6974.1	6854.4	6892.6	6747.5	6477.6	6309.5	6317.2
55°	7213.4	7195.6	7386.6	7529.2	7552.1	7399.3	7216.0	7012.3	6673.6	6503.0	6452.1
57°	6971.5	7012.3	7223.6	7646.3	7860.2	7679.4	7279.6	6907.9	6457.2	6251.0	6159.3
57.5°	6648.2	6714.4	7081.0	7506.2	7730.3	7715.0	7200.7	6714.4	6312.1	5991.2	5998.9
60°	4870.9	4883.6	5214.6	5889.4	6589.6	6604.9	5978.5	5334.3	4886.2	4537.4	4585.7
62.5°	2569.1	2627.7	2760.1	3302.4	3908.4	4056.1	3676.7	3345.7	2958.7	2693.9	2719.4
65°	1359.7	1352.0	1415.7	1568.5	1866.4	1942.8	1891.8	1629.6	1494.6	1451.3	1453.9
67.5°	1105.1	1117.8	1110.1	1117.8	1138.2	1171.3	1163.6	1173.8	1181.4	1194.2	1191.6
70°	937.0	937.0	942.1	944.6	944.6	959.9	977.7	1010.8	1013.4	1026.1	1031.2
72.5°	738.4	733.3	740.9	758.8	761.3	774.0	799.5	819.9	827.5	827.5	812.2
75°	501.6	506.7	516.9	532.2	547.4	570.4	590.7	603.5	608.5	600.9	593.3
77.5°	282.6	287.7	295.4	318.3	336.1	356.5	379.4	392.1	404.8	407.4	392.1
80°	168.1	168.1	180.8	198.6	219.0	239.3	259.7	275.0	280.1	280.1	272.4
82.5°	101.8	104.4	114.6	132.4	150.2	163.0	180.8	193.5	203.7	201.2	196.1
85°	53.5	53.5	63.7	78.9	91.7	104.4	104.4	96.8	91.7	78.9	73.8
87.5°	17.8	15.3	20.4	20.4	17.8	20.4	20.4	22.9	22.9	22.9	22.9
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)