

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: P532048

Luminaire Tested: **GALN-SA7B-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24718 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

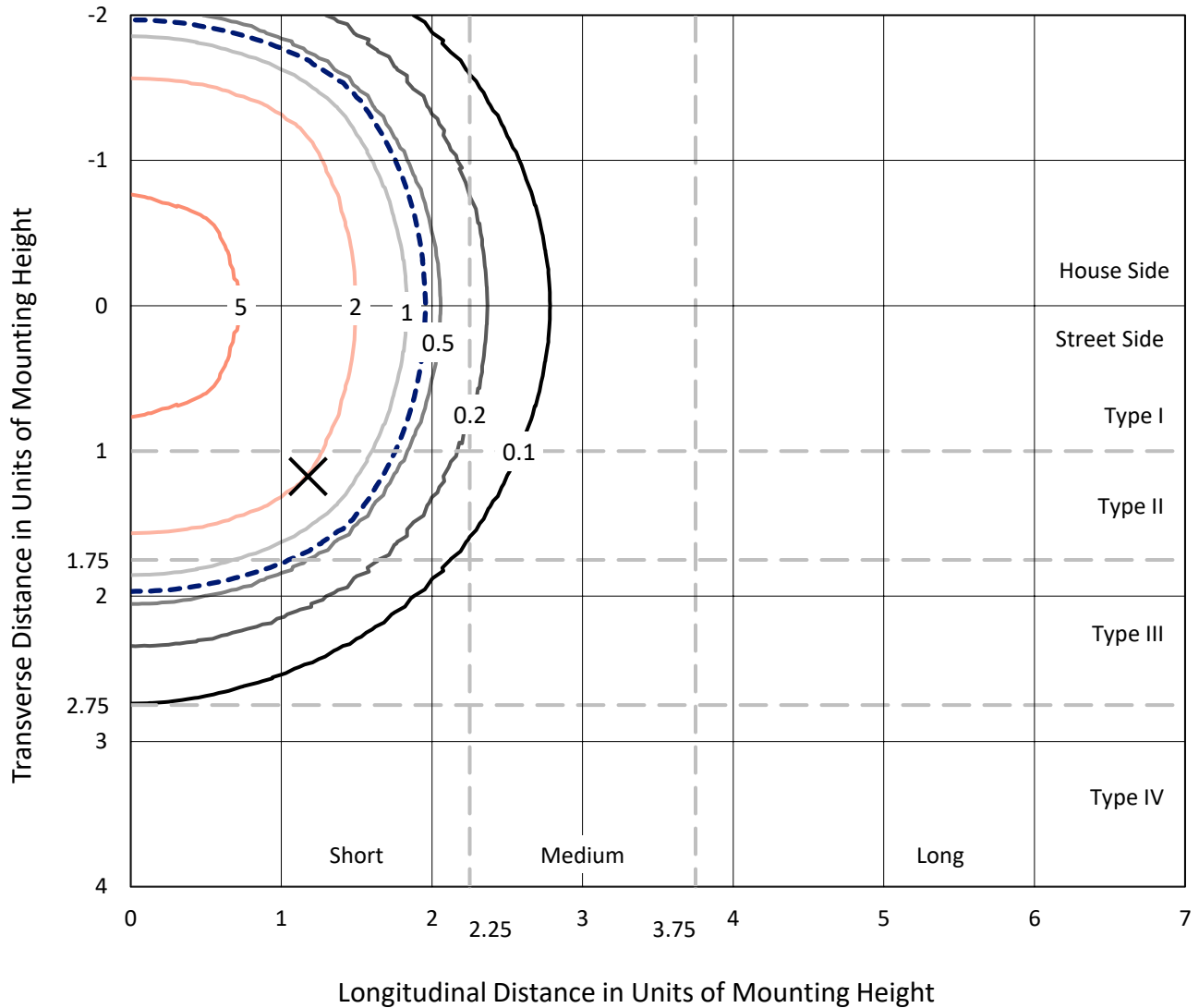
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

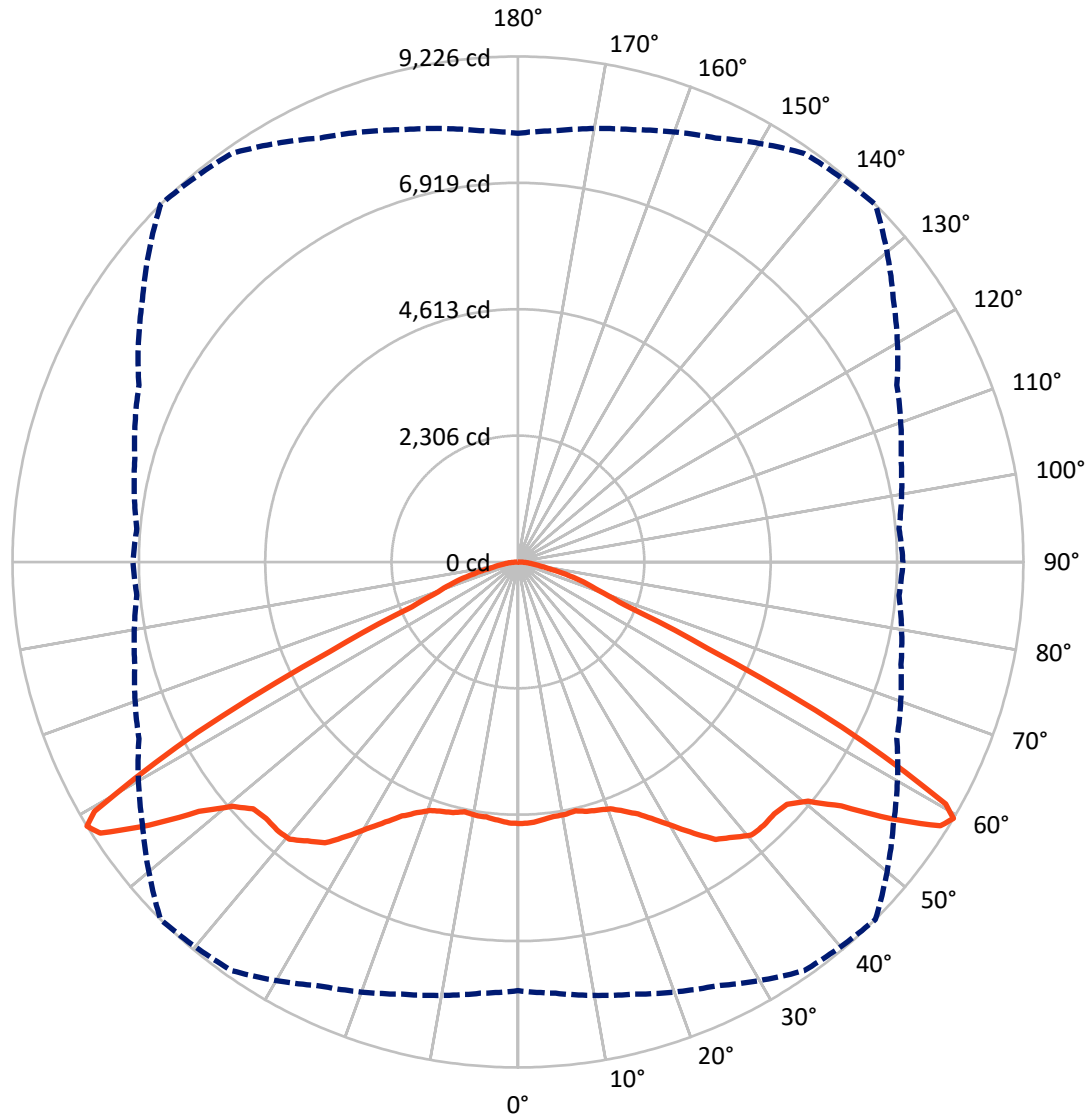
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12359.0	0.0	12359.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12359.0	0.0	12359.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24718.0	0.0	24718.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.1	1.8
10°-20°	1338.4	5.4
20°-30°	2337.0	9.5
30°-40°	3732.6	15.1
40°-50°	5084.5	20.6
50°-60°	6875.6	27.8
60°-70°	3770.6	15.3
70°-80°	964.6	3.9
80°-90°	164.5	0.7
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°	24718.0	100.0
0°-180°	24718.0	100.0



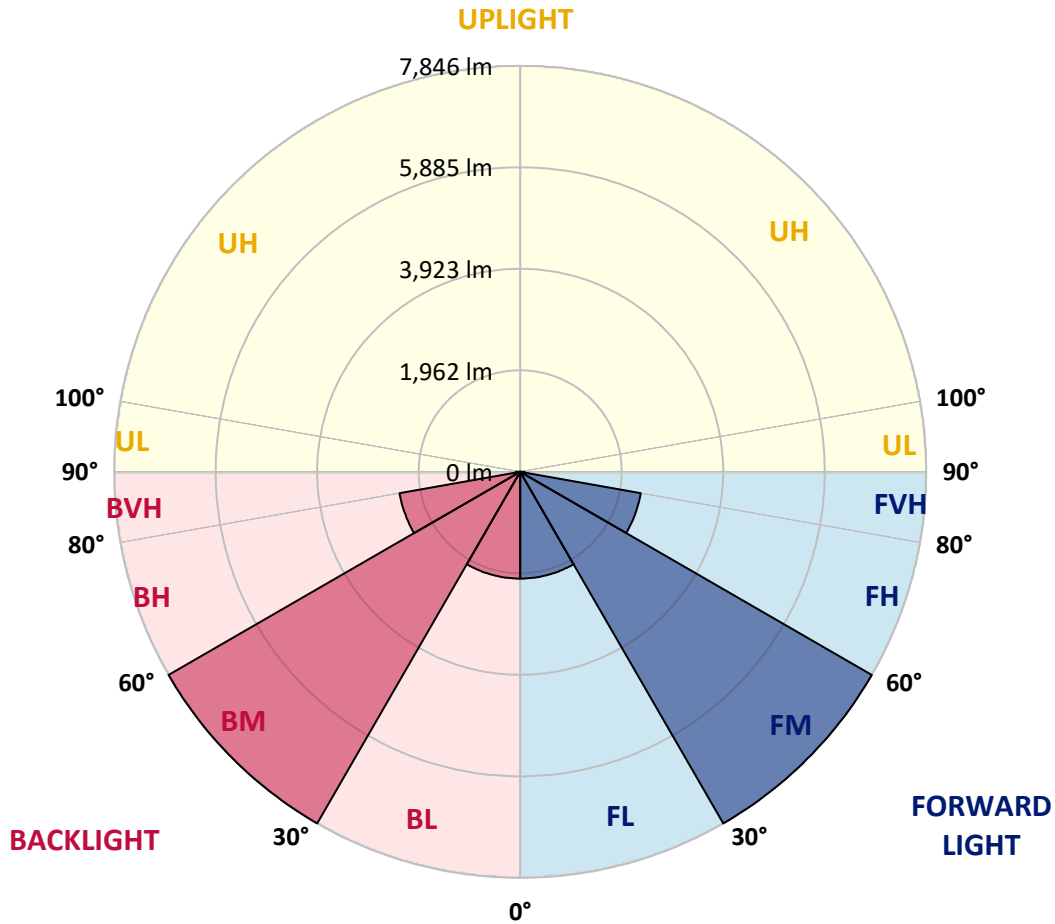
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2062.8	8.3			
FM (30°-60°)	7846.4	31.7			
FH (60°-80°)	2367.6	9.6			G2/5000
FVH (80°-90°)	82.3	0.3			G1/100
BL (0°-30°)	2062.8	8.3	B3/2500		
BM (30°-60°)	7846.4	31.7	B4/8500		
BH (60°-80°)	2367.6	9.6	B3/2500		G2/5000
BVH (80°-90°)	82.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3	4774.3
2.5°	4745.8	4780.7	4755.3	4777.5	4774.3	4764.8	4749.0	4739.5	4726.8	4745.8	4714.1
5°	4726.8	4755.3	4783.8	4745.8	4745.8	4726.8	4717.3	4698.3	4698.3	4695.1	4692.0
7.5°	4758.5	4730.0	4717.3	4723.6	4730.0	4688.8	4717.3	4679.3	4647.6	4669.8	4695.1
10°	4730.0	4742.7	4695.1	4717.3	4682.5	4688.8	4669.8	4695.1	4660.3	4660.3	4660.3
12.5°	4758.5	4723.6	4739.5	4723.6	4714.1	4660.3	4685.6	4657.1	4653.9	4685.6	4657.1
15°	4815.5	4758.5	4745.8	4714.1	4723.6	4723.6	4698.3	4701.5	4666.6	4685.6	4692.0
17.5°	4796.5	4764.8	4755.3	4717.3	4749.0	4758.5	4711.0	4679.3	4701.5	4698.3	4695.1
20°	4812.4	4825.0	4815.5	4821.9	4834.5	4809.2	4764.8	4720.5	4692.0	4733.2	4730.0
22.5°	4913.7	4901.1	4894.7	4888.4	4910.6	4935.9	4875.7	4806.0	4806.0	4834.5	4847.2
25°	4996.1	4992.9	4989.8	5018.3	5094.3	5094.3	5018.3	4929.6	4907.4	4926.4	4910.6
27.5°	5116.5	5151.3	5138.7	5189.4	5300.2	5325.6	5224.2	5119.7	5059.5	5037.3	5065.8
30°	5392.1	5350.9	5360.4	5414.3	5512.5	5594.9	5439.6	5328.8	5246.4	5243.2	5255.9
32.5°	5575.9	5607.5	5636.1	5686.8	5842.0	5905.3	5718.4	5537.8	5487.2	5458.6	5468.2
35°	5943.4	5914.9	5908.5	5959.2	6114.4	6219.0	5984.6	5826.1	5759.6	5823.0	5823.0
37.5°	6291.9	6212.7	6152.5	6219.0	6361.6	6374.2	6174.6	6089.1	6054.3	6127.1	6123.9
40°	6456.6	6450.3	6310.9	6348.9	6539.0	6558.0	6371.1	6269.7	6263.3	6358.4	6453.4
42.5°	6627.7	6567.5	6428.1	6453.4	6570.7	6577.0	6399.6	6371.1	6440.8	6532.6	6539.0
45°	6656.2	6605.5	6516.8	6453.4	6539.0	6558.0	6453.4	6472.4	6478.8	6589.7	6589.7
47.5°	6713.2	6706.9	6656.2	6608.7	6624.5	6608.7	6542.1	6570.7	6665.7	6719.6	6694.2
50°	6871.6	6805.1	6855.8	6814.6	6817.8	6862.1	6801.9	6830.4	6811.4	6763.9	6732.2
52.5°	7220.1	7188.4	7232.8	7261.3	7293.0	7394.4	7324.7	7172.6	7030.0	6903.3	6900.1
55°	7730.2	7752.4	7837.9	7983.6	8107.2	8268.8	7932.9	7568.6	7340.5	7140.9	7153.6
57.5°	8211.7	8195.9	8313.1	8645.8	9006.9	9089.3	8430.3	7910.8	7540.1	7413.4	7359.5
59°	7825.2	7901.3	8167.4	8538.0	9105.1	9225.5	8363.8	7632.0	7239.1	6982.5	7026.9
60°	7216.9	7245.5	7483.1	7999.5	8766.1	8972.1	7917.1	7201.1	6678.4	6529.5	6596.0
62.5°	5100.7	5078.5	5249.6	5670.9	6358.4	6637.2	5886.3	5382.6	5053.1	4888.4	4926.4
65°	2711.9	2813.3	2883.0	3145.9	3510.3	3804.9	3494.4	3275.8	3092.1	2955.8	2952.7
67.5°	1831.2	1818.5	1834.3	1894.5	2018.1	2100.5	2094.1	1983.2	1967.4	1942.0	1970.6
70°	1542.9	1536.5	1508.0	1508.0	1533.4	1552.4	1574.5	1587.2	1612.6	1644.2	1641.1
72.5°	1251.4	1235.6	1216.6	1207.0	1238.7	1248.2	1276.7	1289.4	1311.6	1308.4	1336.9
75°	826.9	826.9	849.1	874.4	883.9	902.9	906.1	944.1	944.1	950.4	925.1
77.5°	462.5	449.9	465.7	491.1	513.2	548.1	582.9	611.4	627.3	620.9	620.9
80°	269.3	269.3	285.1	313.6	342.2	373.8	399.2	421.4	437.2	430.9	418.2
82.5°	167.9	167.9	183.8	212.3	234.4	253.4	288.3	316.8	335.8	329.5	313.6
85°	85.5	85.5	104.5	123.6	152.1	164.7	161.6	148.9	145.7	129.9	129.9
87.5°	22.2	22.2	31.7	34.8	28.5	31.7	31.7	31.7	31.7	31.7	34.8
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)