

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: P457992

Luminaire Tested: **GALN-SA9B-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39575 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

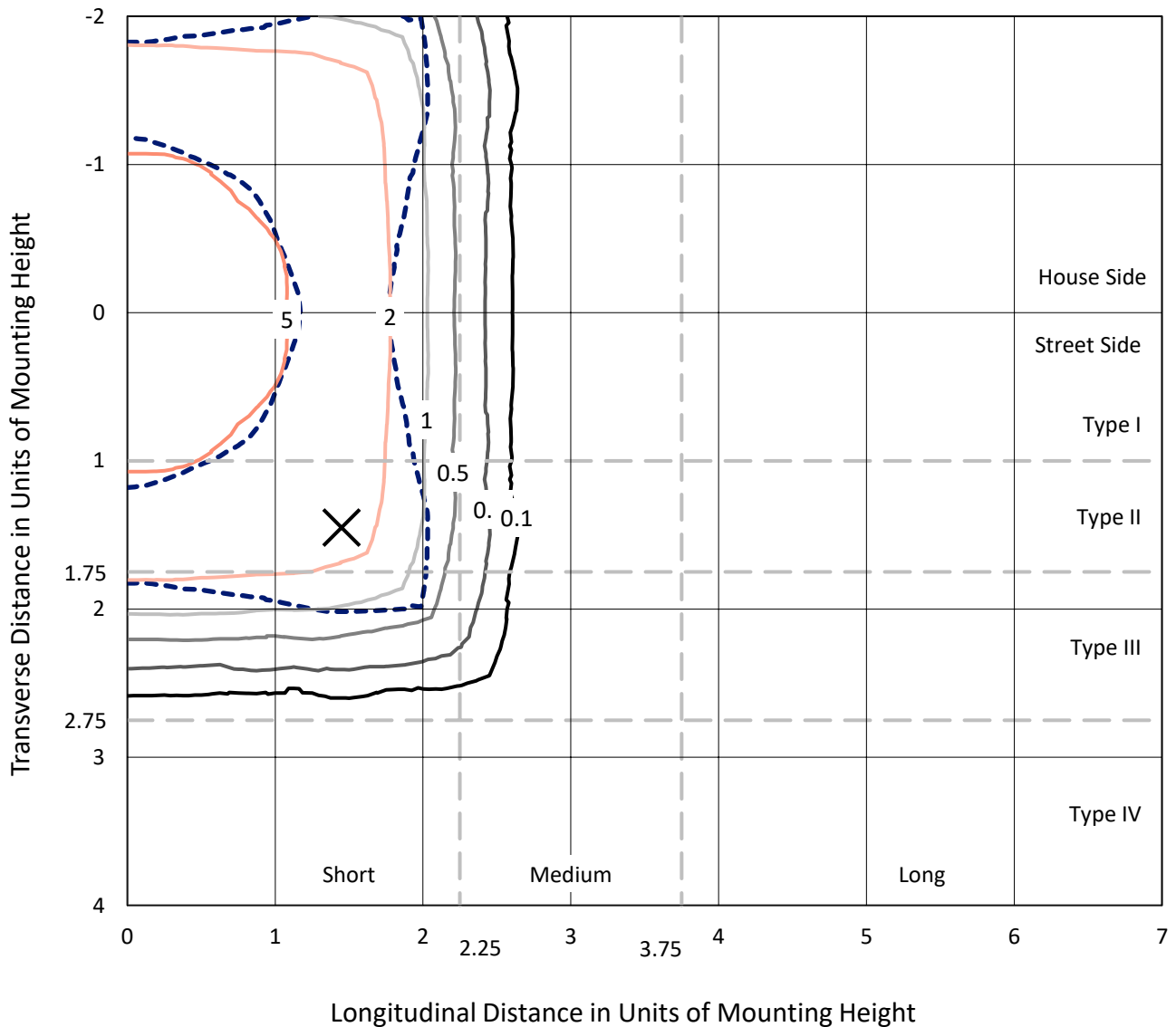
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

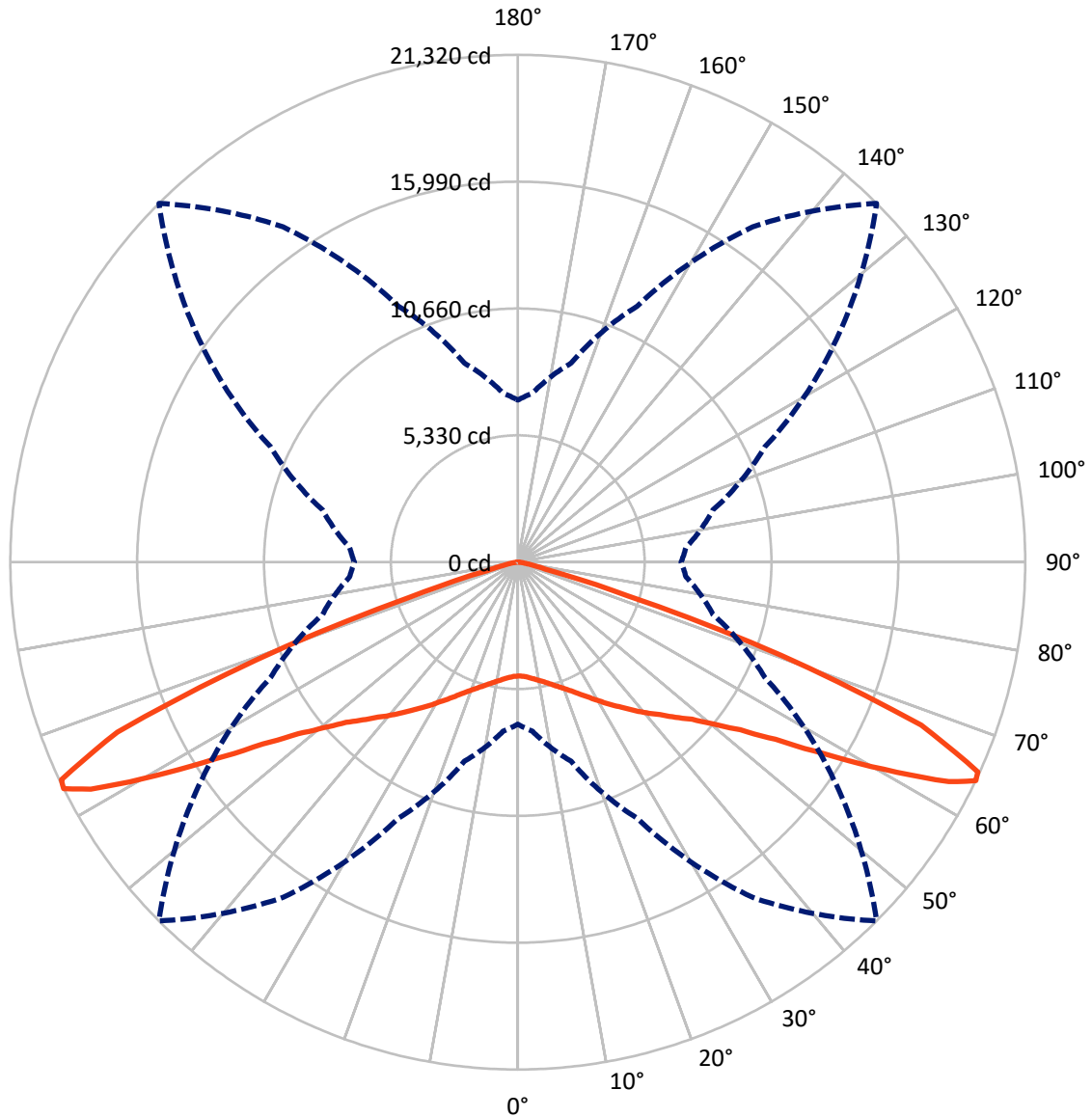
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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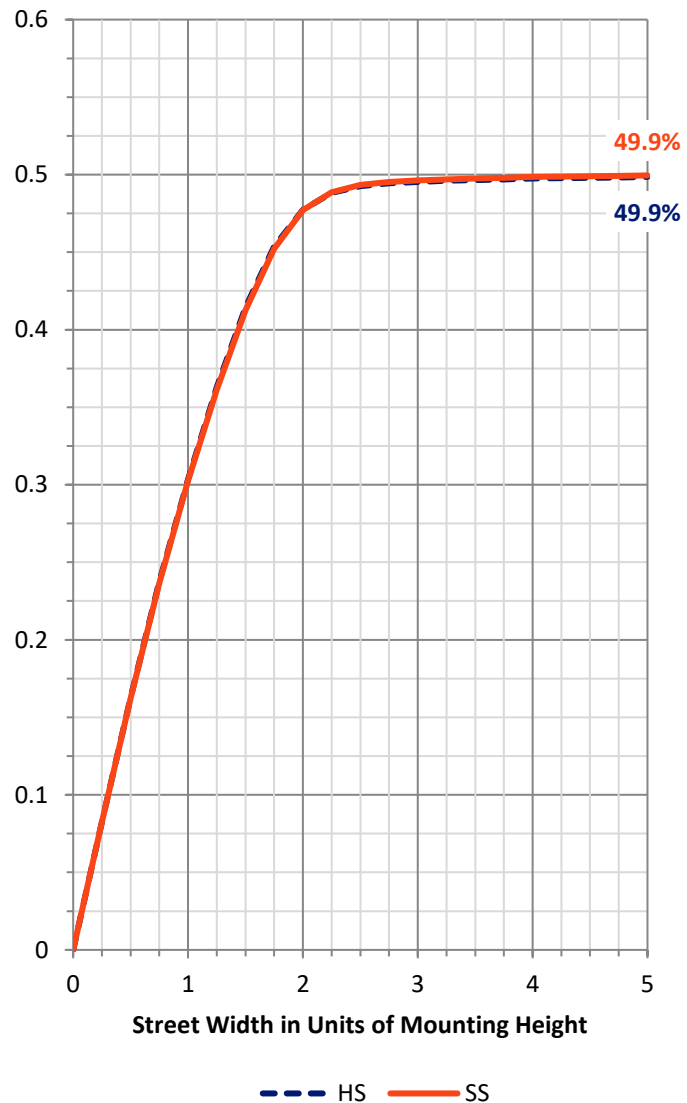
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19787.5	0.0	19787.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19787.5	0.0	19787.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39575.0	0.0	39575.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.9	1.2
10°-20°	1515.8	3.8
20°-30°	2864.5	7.2
30°-40°	4743.9	12.0
40°-50°	7405.9	18.7
50°-60°	11449.4	28.9
60°-70°	9872.7	24.9
70°-80°	1118.8	2.8
80°-90°	134.0	0.3
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°	39575.0	100.0
0°-180°	39575.0	100.0



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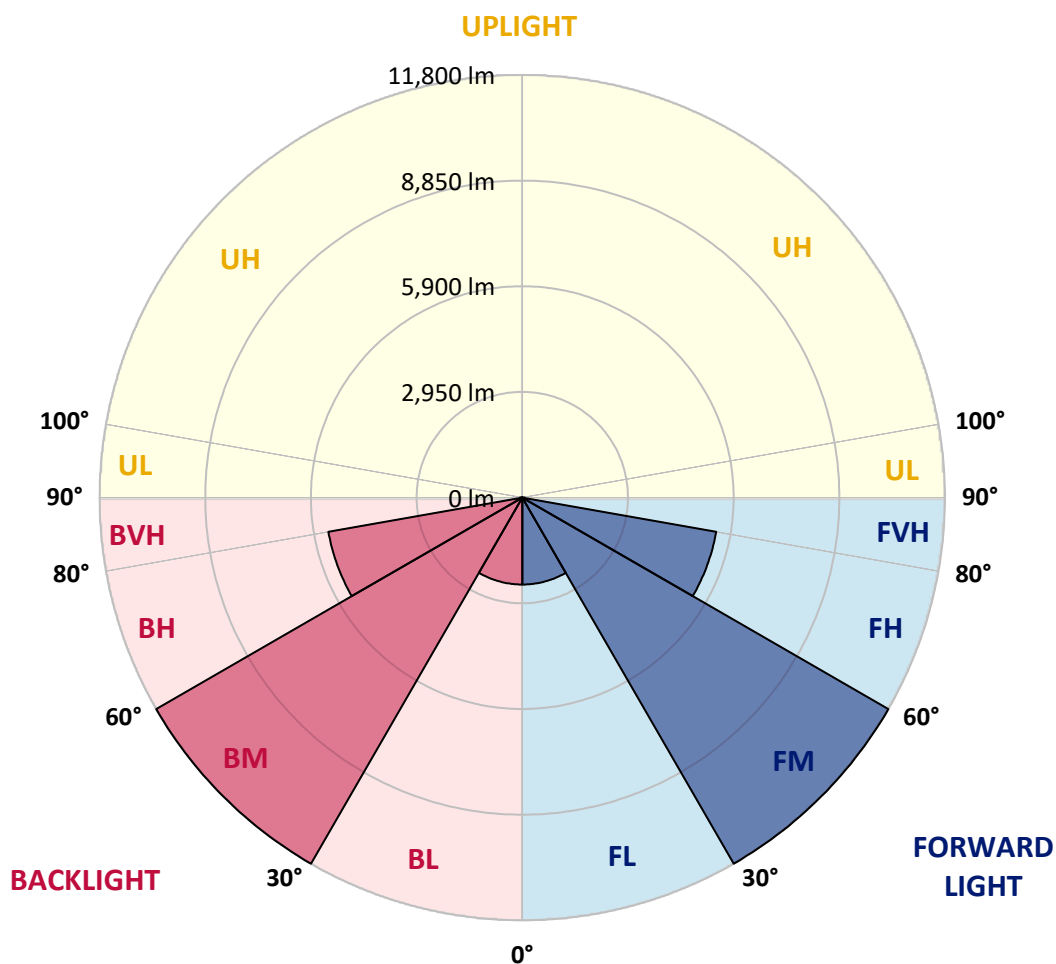
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2425.1	6.1			
FM	(30°-60°)	11799.6	29.8			
FH	(60°-80°)	5495.8	13.9			G3/7500
FVH	(80°-90°)	67.0	0.2			G1/100
BL	(0°-30°)	2425.1	6.1	B3/2500		
BM	(30°-60°)	11799.6	29.8	B5		
BH	(60°-80°)	5495.8	13.9	B5		G3/7500
BVH	(80°-90°)	67.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4783.3	4783.3	4783.3	4783.3	4783.3	4783.3	4783.3	4783.3	4783.3	4783.3	4783.3
2.5°	4802.2	4812.6	4804.3	4802.2	4800.1	4800.1	4800.1	4802.2	4810.6	4816.8	4812.6
5°	4863.0	4871.3	4867.1	4865.1	4863.0	4865.1	4860.9	4858.8	4865.1	4865.1	4863.0
7.5°	4938.4	4948.9	4944.7	4948.9	4951.0	4953.1	4942.6	4934.2	4932.1	4938.4	4934.2
10°	5041.1	5049.5	5051.6	5053.7	5057.9	5055.8	5043.2	5028.5	5026.5	5024.4	5022.3
12.5°	5156.4	5162.7	5164.8	5173.2	5179.5	5181.6	5166.9	5154.3	5133.4	5137.5	5129.2
15°	5286.4	5298.9	5296.8	5309.4	5326.2	5330.4	5315.7	5294.8	5275.9	5265.4	5259.1
17.5°	5445.7	5454.1	5449.9	5462.4	5483.4	5493.9	5481.3	5454.1	5435.2	5412.1	5399.6
20°	5634.3	5649.0	5653.2	5653.2	5672.1	5682.5	5663.7	5655.3	5625.9	5609.2	5598.7
22.5°	5848.1	5854.4	5867.0	5879.6	5898.4	5894.2	5887.9	5875.4	5848.1	5833.5	5816.7
25°	6089.2	6095.5	6126.9	6154.2	6160.4	6156.3	6147.9	6141.6	6116.4	6082.9	6070.3
27.5°	6370.1	6382.6	6424.6	6449.7	6449.7	6451.8	6435.0	6456.0	6401.5	6361.7	6357.5
30°	6722.2	6730.6	6766.2	6791.4	6778.8	6768.3	6764.1	6785.1	6726.4	6655.1	6638.4
32.5°	7070.2	7099.5	7130.9	7185.4	7141.4	7122.6	7118.4	7133.0	7066.0	6986.3	6963.3
35°	7443.3	7464.2	7522.9	7569.0	7529.2	7485.2	7504.0	7550.2	7470.5	7363.6	7359.4
37.5°	7856.2	7875.1	7950.5	7998.7	7969.4	7893.9	7925.4	7979.9	7900.2	7768.2	7740.9
40°	8285.9	8325.7	8420.0	8470.3	8422.1	8321.5	8380.2	8438.9	8367.6	8214.6	8153.8
42.5°	8768.0	8830.9	8967.1	8992.3	8900.0	8763.8	8866.5	8960.8	8910.5	8734.5	8711.4
45°	9331.8	9369.6	9537.3	9591.8	9463.9	9294.1	9422.0	9593.9	9556.1	9352.8	9308.8
47.5°	9962.8	9998.4	10172.4	10254.1	10092.7	9864.3	10094.8	10319.1	10296.1	10078.1	10057.1
50°	10709.0	10717.4	10958.4	11050.6	10889.2	10692.2	10897.6	11176.4	11084.2	10805.4	10801.2
52.5°	11526.5	11536.9	11840.9	12019.0	11928.9	11706.7	11949.9	12119.7	11884.9	11520.2	11492.9
55°	12234.9	12287.3	12702.4	13176.1	13299.8	13138.4	13211.7	13132.1	12553.6	12042.1	11962.5
57.5°	12524.2	12626.9	13257.8	14142.4	14947.3	15186.3	14620.3	13861.5	12819.8	12096.6	12019.0
60°	11817.8	11928.9	12907.8	14586.8	16641.0	17678.5	16087.6	13985.2	12214.0	11197.4	11075.8
62.5°	9463.9	9495.3	10935.4	13540.8	17628.2	20315.4	16705.9	12930.9	10451.2	9069.8	9021.6
64°	6810.2	7133.0	8659.0	11872.3	17196.4	21319.5	16349.6	11453.1	8489.2	7091.1	6864.7
65°	5093.5	5181.6	6980.0	10138.8	16435.5	21244.0	15657.9	10040.3	7030.3	5426.8	5175.3
67.5°	1924.2	1934.7	2576.1	5053.7	11700.4	18278.0	11949.9	5462.4	2961.8	2142.2	2064.7
70°	798.6	813.3	945.3	1699.9	5028.5	11736.1	5762.2	1970.3	1083.7	878.3	865.7
72.5°	584.8	593.2	633.0	754.6	1546.9	4818.9	1894.9	836.3	635.1	568.0	561.8
75°	459.0	463.2	492.6	555.5	721.1	1335.2	788.1	574.3	484.2	436.0	431.8
77.5°	350.0	360.5	381.5	423.4	484.2	633.0	521.9	429.7	373.1	333.3	327.0
80°	241.1	253.6	293.5	310.2	324.9	410.8	356.3	324.9	291.4	243.1	228.5
82.5°	148.8	157.2	197.0	211.7	205.4	230.6	228.5	232.7	207.5	150.9	140.4
85°	77.6	81.7	106.9	111.1	102.7	94.3	117.4	136.2	127.9	85.9	83.8
87.5°	16.8	18.9	23.1	21.0	23.1	23.1	29.3	44.0	46.1	29.3	27.2
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)