

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: P533690

Luminaire Tested: **GALN-SA9A-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26705 lumens
Efficiency: N/A
Efficacy: 97.5 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

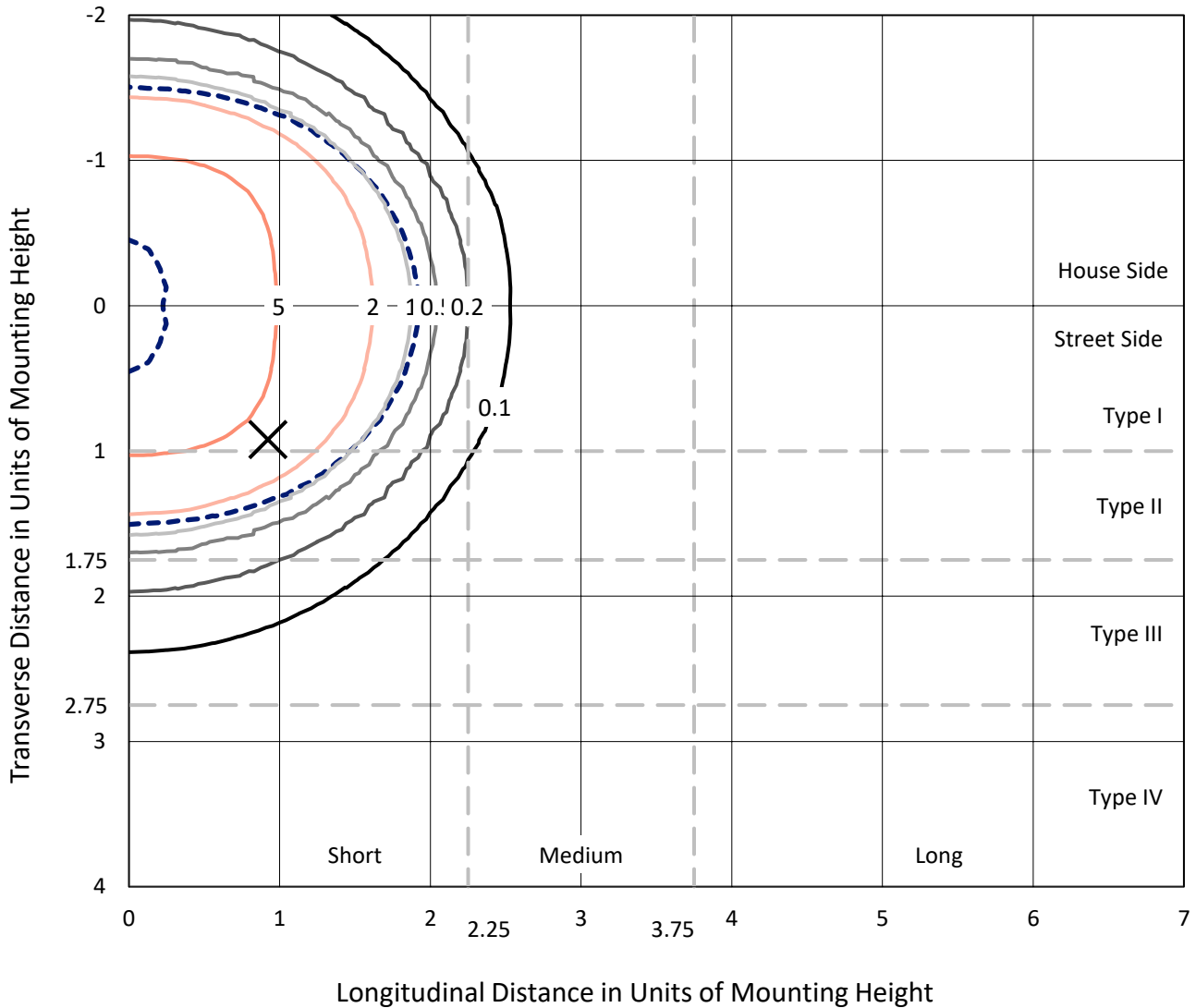
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

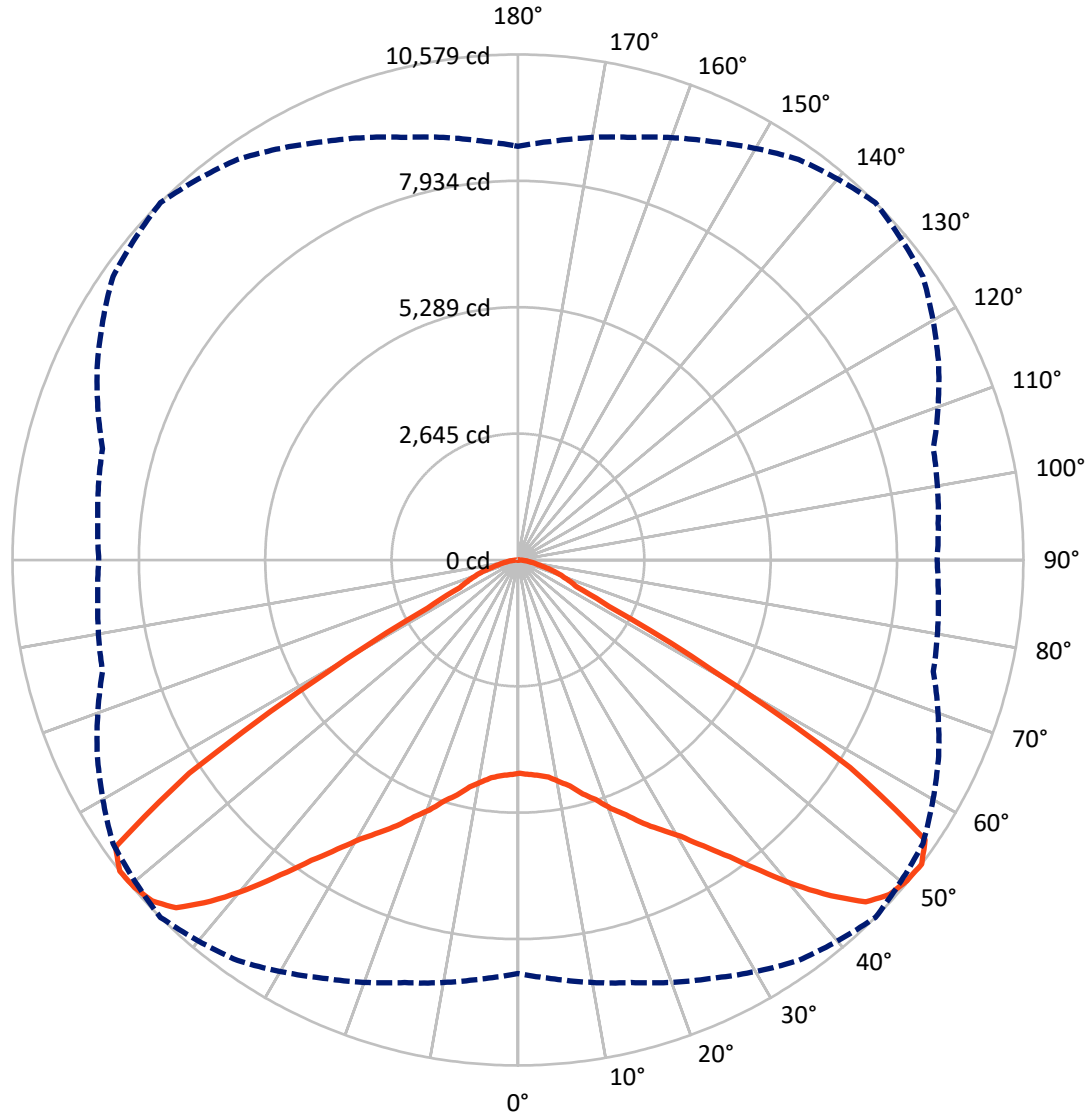
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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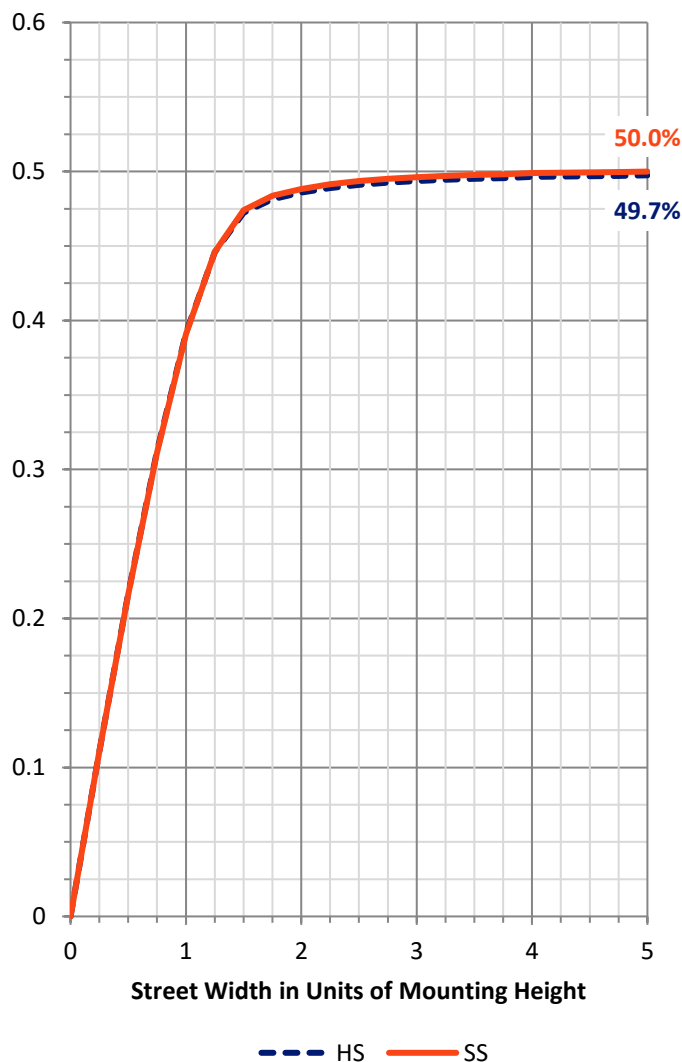
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13352.5	0.0	13352.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13352.5	0.0	13352.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26705.0	0.0	26705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	1.6
10°-20°	1441.2	5.4
20°-30°	2743.8	10.3
30°-40°	4711.2	17.6
40°-50°	7241.3	27.1
50°-60°	7353.4	27.5
60°-70°	2049.3	7.7
70°-80°	604.5	2.3
80°-90°	121.8	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°	26705.0	100.0
0°-180°	26705.0	100.0

Coefficient of Utilization



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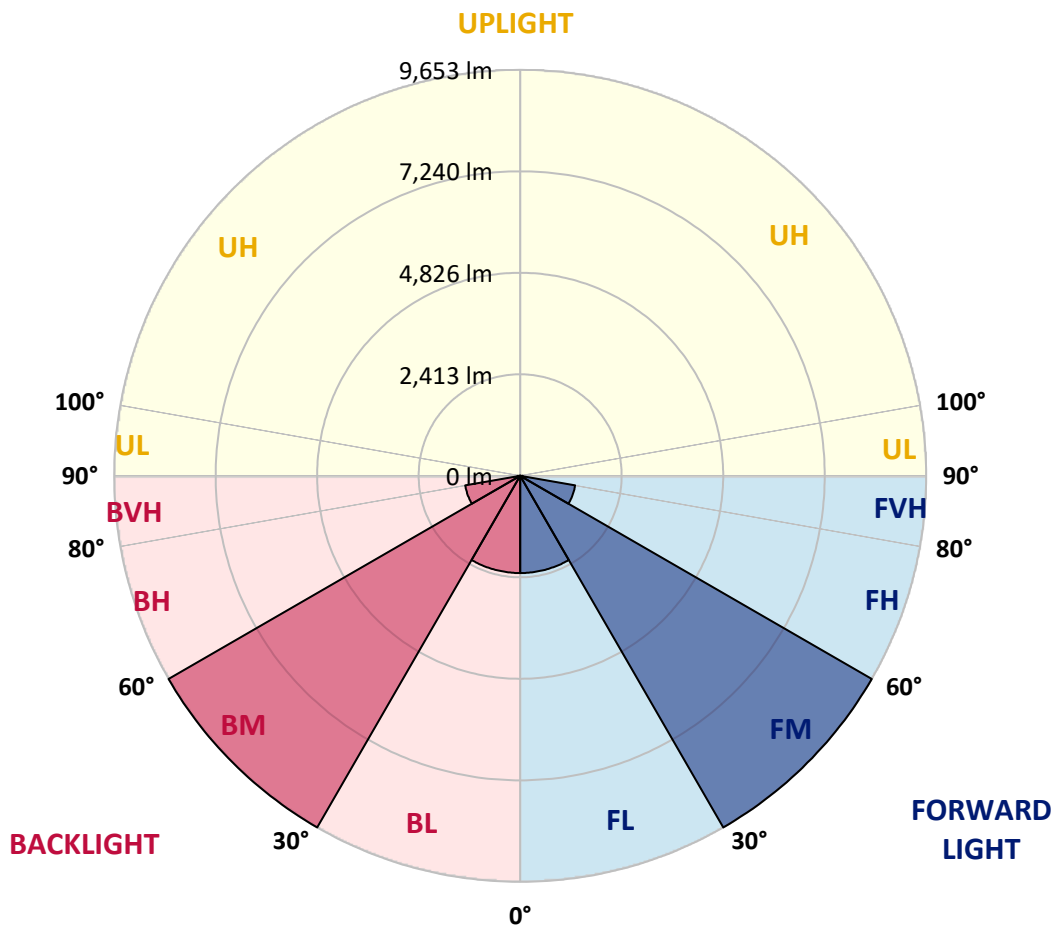
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2311.8	8.7			
FM (30°-60°)	9653.0	36.1			
FH (60°-80°)	1326.9	5.0			G1/1800
FVH (80°-90°)	60.9	0.2			G1/100
BL (0°-30°)	2311.8	8.7	B3/2500		
BM (30°-60°)	9653.0	36.1	B5		
BH (60°-80°)	1326.9	5.0	B3/2500		G1/1800
BVH (80°-90°)	60.9	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4464.1	4464.1	4464.1	4464.1	4464.1	4464.1	4464.1	4464.1	4464.1	4464.1	4464.1
2.5°	4474.0	4427.6	4444.2	4454.2	4497.2	4493.9	4484.0	4497.2	4510.5	4513.8	4507.2
5°	4470.7	4437.6	4450.8	4460.8	4503.9	4527.1	4520.4	4576.8	4616.5	4606.6	4656.3
7.5°	4444.2	4464.1	4447.5	4497.2	4533.7	4590.0	4649.7	4702.7	4752.4	4808.8	4818.7
10°	4503.9	4503.9	4533.7	4573.5	4669.6	4712.7	4798.8	4875.0	4971.1	5037.4	5010.9
12.5°	4566.8	4576.8	4576.8	4679.5	4759.0	4855.2	4934.7	5037.4	5173.3	5252.8	5292.6
15°	4629.8	4636.4	4669.6	4808.8	4928.1	5080.5	5153.4	5246.2	5322.4	5471.6	5474.9
17.5°	4686.1	4722.6	4822.0	4977.8	5126.9	5272.7	5388.7	5484.8	5551.1	5610.8	5597.5
20°	4898.2	4924.8	5027.5	5183.3	5405.3	5547.8	5587.6	5604.1	5647.2	5766.5	5730.1
22.5°	5103.7	5113.7	5209.8	5448.4	5604.1	5793.0	5836.1	5826.2	5842.8	5872.6	5925.6
25°	5315.8	5332.4	5465.0	5667.1	5885.8	6111.2	6147.7	6071.4	6048.2	6081.4	6084.7
27.5°	5587.6	5590.9	5759.9	5935.6	6184.1	6396.2	6452.6	6392.9	6283.5	6310.0	6353.1
30°	5932.2	5909.0	6078.1	6329.9	6591.7	6711.1	6807.2	6777.3	6658.0	6634.8	6598.4
32.5°	6329.9	6336.6	6489.0	6764.1	6936.4	7135.3	7238.0	7188.3	7112.1	7072.3	7095.5
35°	6890.0	6919.8	7022.6	7251.3	7529.6	7629.1	7791.4	7685.4	7486.6	7536.3	7579.3
37.5°	7350.7	7436.8	7629.1	7900.8	8066.5	8248.8	8308.4	8165.9	8020.1	7960.5	8103.0
40°	8056.6	8030.1	8242.2	8513.9	8759.2	8941.4	8865.2	8722.7	8361.5	8364.8	8404.6
42.5°	8663.1	8676.3	8838.7	9163.5	9498.2	9610.9	9369.0	9021.0	8620.0	8576.9	8663.1
45°	9173.4	9226.5	9319.2	9753.4	10081.5	10204.1	9756.7	9345.8	8808.9	8629.9	8772.4
47.5°	9355.7	9441.9	9644.0	10041.7	10366.5	10465.9	10108.0	9518.1	8984.5	8692.9	8769.1
50°	9382.2	9352.4	9683.8	10048.4	10333.4	10548.8	10233.9	9644.0	8941.4	8789.0	8765.8
52.5°	8656.4	8802.2	9156.9	9657.3	10233.9	10578.6	10346.6	9713.6	9001.1	8828.8	8772.4
55°	7006.0	6833.7	7479.9	8321.7	9382.2	10340.0	10306.9	9750.1	9037.6	8895.0	8818.8
57.5°	3910.6	3960.3	4324.9	5239.6	6608.3	8199.1	9163.5	9365.6	9021.0	8938.1	8977.9
60°	1809.5	1826.1	1981.8	2409.4	3257.8	4649.7	5919.0	7208.2	7801.4	7920.7	7920.7
62.5°	1348.8	1342.2	1382.0	1458.2	1637.2	2137.6	2853.4	3877.5	4692.8	5262.8	5411.9
65°	1219.6	1216.3	1236.2	1262.7	1275.9	1345.5	1504.6	1819.4	2084.6	2237.0	2210.5
67.5°	1067.1	1063.8	1070.5	1087.0	1110.2	1146.7	1186.4	1252.7	1345.5	1338.9	1322.3
70°	861.7	861.7	871.6	884.9	911.4	954.5	1000.9	1047.3	1126.8	1143.4	1140.1
72.5°	636.3	626.4	646.2	672.8	699.3	752.3	802.0	845.1	901.4	918.0	911.4
75°	404.3	410.9	424.2	454.0	500.4	536.9	589.9	626.4	662.8	676.1	679.4
77.5°	225.4	232.0	255.2	291.6	338.0	377.8	424.2	454.0	477.2	480.5	483.9
80°	135.9	139.2	162.4	195.5	235.3	278.4	314.8	344.7	364.6	354.6	351.3
82.5°	82.9	86.2	106.1	135.9	169.0	202.2	241.9	268.4	288.3	275.1	261.8
85°	43.1	46.4	63.0	82.9	109.4	125.9	125.9	112.7	109.4	102.7	99.4
87.5°	13.3	13.3	16.6	19.9	16.6	19.9	23.2	26.5	26.5	29.8	26.5
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)