

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: P648085

Luminaire Tested: **GALN-SA8A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648085
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-SA8A-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA 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: 24530.6 lumens
Efficiency: N/A
Efficacy: 100.5 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

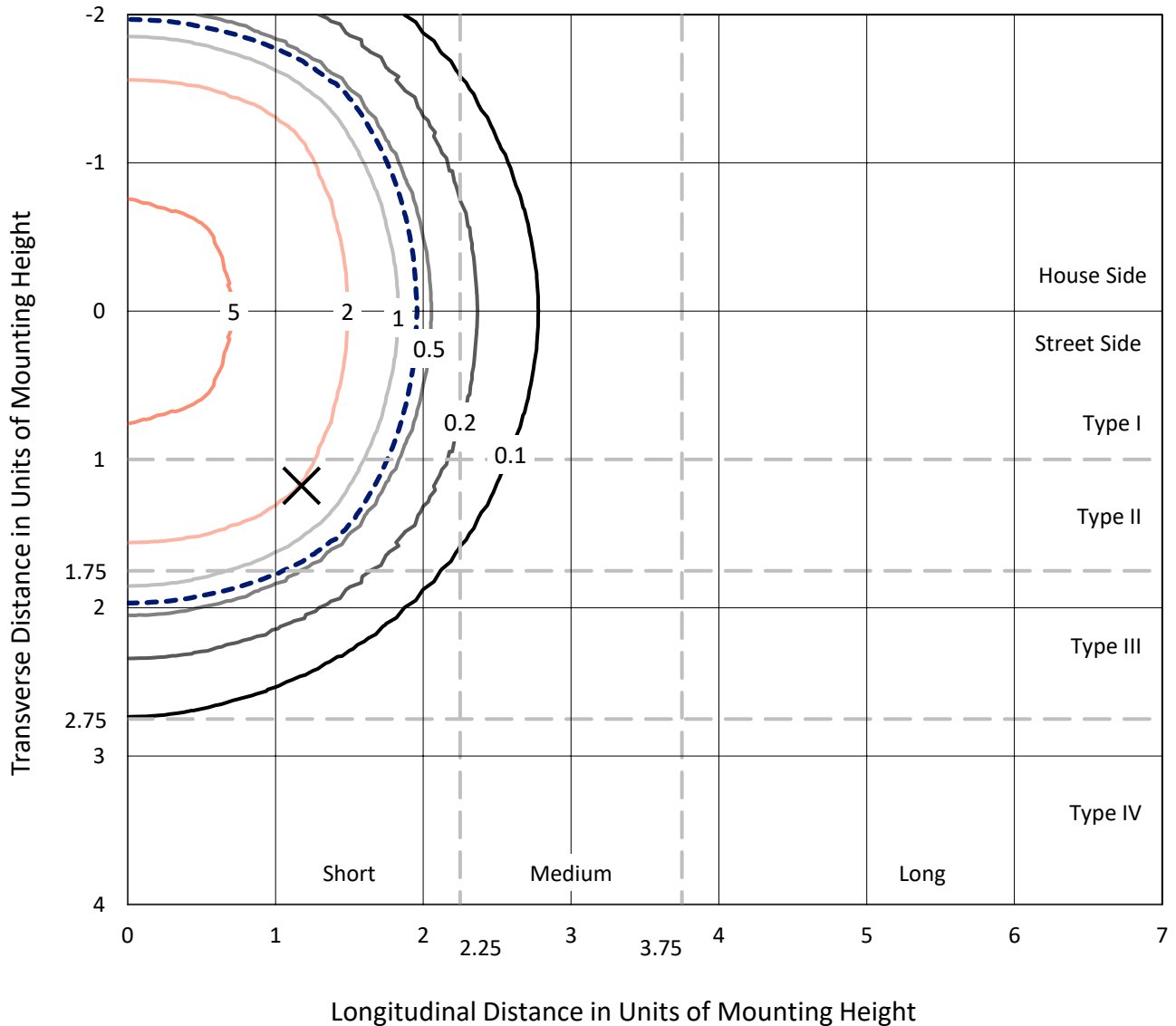
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

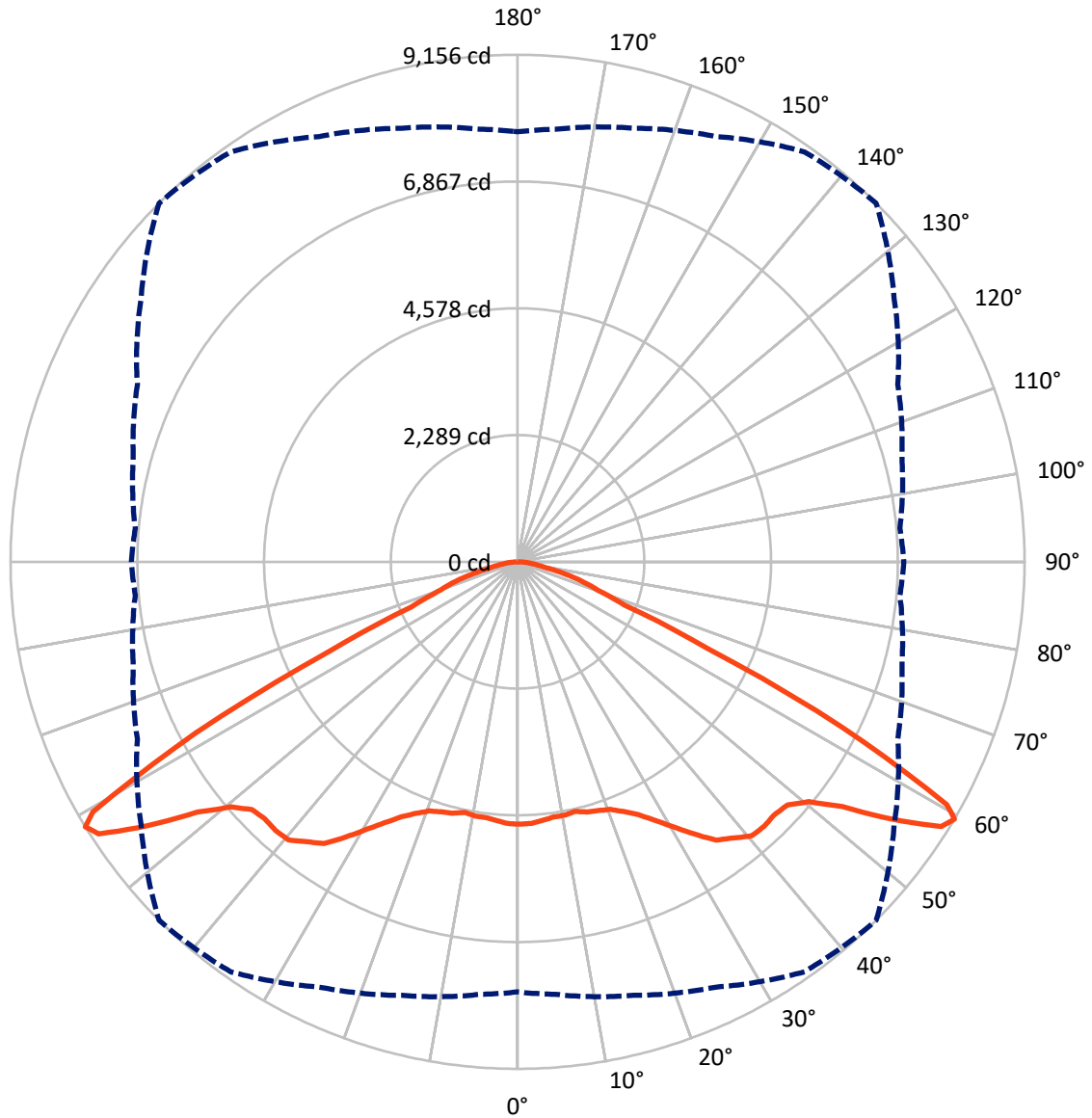
× Max cd
 - - - 1/2 Max cd



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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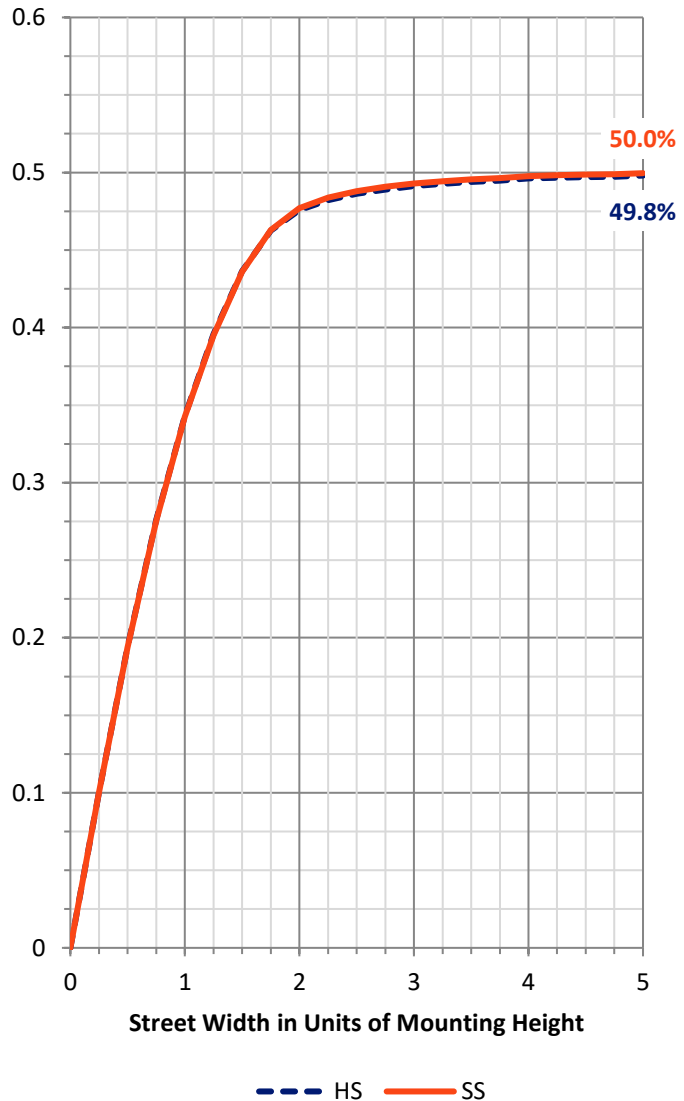
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12265.3	0.0	12265.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12265.3	0.0	12265.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24530.6	0.0	24530.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.7	1.8
10°-20°	1328.3	5.4
20°-30°	2319.3	9.5
30°-40°	3704.3	15.1
40°-50°	5046.0	20.6
50°-60°	6823.5	27.8
60°-70°	3742.0	15.3
70°-80°	957.3	3.9
80°-90°	163.3	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°	24530.6	100.0
0°-180°	24530.6	100.0

Coefficient of Utilization



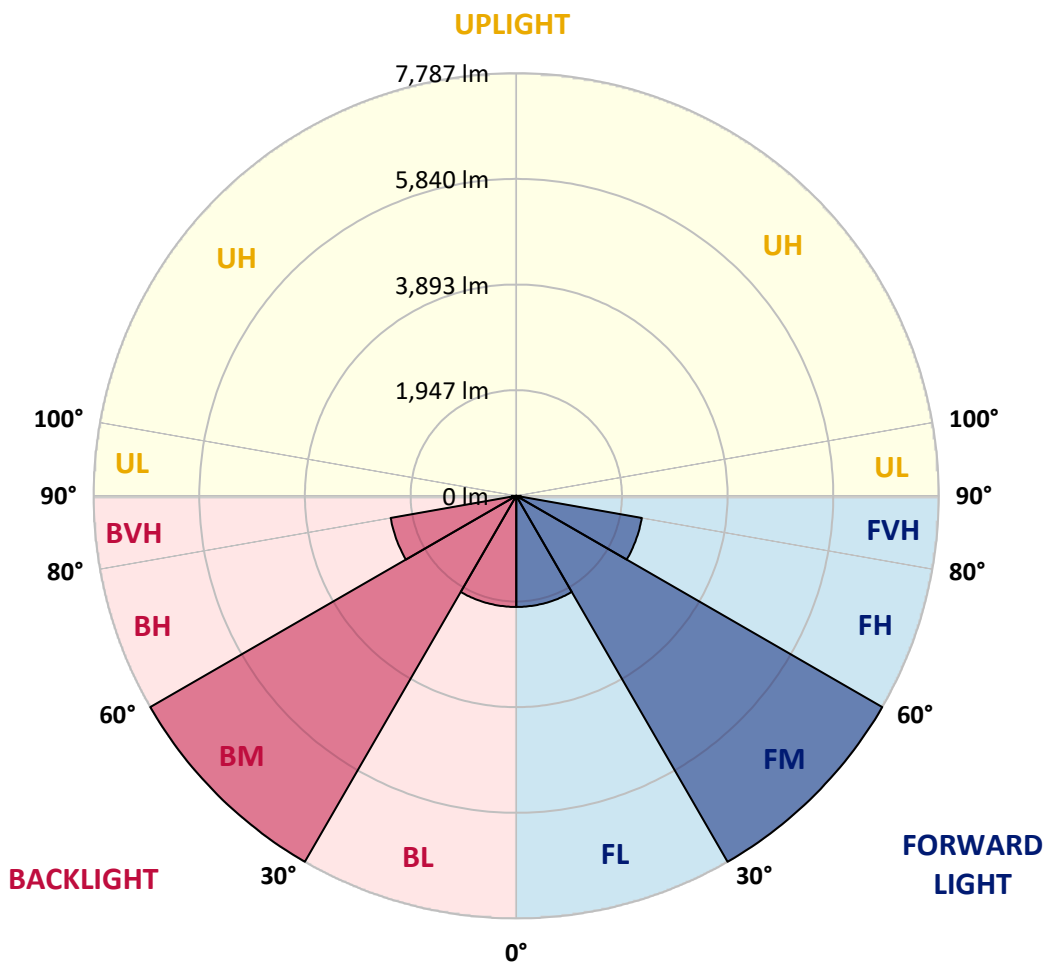
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.1	8.3			
FM (30°-60°)	7786.9	31.7			
FH (60°-80°)	2349.7	9.6			G2/5000
FVH (80°-90°)	81.6	0.3			G1/100
BL (0°-30°)	2047.1	8.3	B3/2500		
BM (30°-60°)	7786.9	31.7	B4/8500		
BH (60°-80°)	2349.7	9.6	B3/2500		G2/5000
BVH (80°-90°)	81.6	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°	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2
2.5°	4709.8	4744.4	4719.3	4741.3	4738.2	4728.7	4713.0	4703.6	4691.0	4709.8	4678.4
5°	4691.0	4719.3	4747.6	4709.8	4709.8	4691.0	4681.6	4662.7	4662.7	4659.6	4656.4
7.5°	4722.4	4694.1	4681.6	4687.8	4694.1	4653.2	4681.6	4643.8	4612.3	4634.4	4659.6
10°	4694.1	4706.7	4659.6	4681.6	4646.9	4653.2	4634.4	4659.6	4624.9	4624.9	4624.9
12.5°	4722.4	4687.8	4703.6	4687.8	4678.4	4624.9	4650.1	4621.8	4618.7	4650.1	4621.8
15°	4779.0	4722.4	4709.8	4678.4	4687.8	4687.8	4662.7	4665.8	4631.2	4650.1	4656.4
17.5°	4760.2	4728.7	4719.3	4681.6	4713.0	4722.4	4675.3	4643.8	4665.8	4662.7	4659.6
20°	4775.8	4788.4	4779.0	4785.3	4797.9	4772.7	4728.7	4684.7	4656.4	4697.3	4694.1
22.5°	4876.4	4863.9	4857.7	4851.3	4873.3	4898.5	4838.8	4769.6	4769.6	4797.9	4810.4
25°	4958.2	4955.1	4951.9	4980.3	5055.7	5055.7	4980.3	4892.2	4870.2	4889.1	4873.3
27.5°	5077.7	5112.3	5099.7	5150.0	5260.0	5285.2	5184.6	5080.8	5021.1	4999.1	5027.4
30°	5351.3	5310.4	5319.8	5373.3	5470.7	5552.5	5398.4	5288.4	5206.6	5203.4	5216.0
32.5°	5533.6	5565.0	5593.4	5643.6	5797.7	5860.6	5675.1	5495.9	5445.5	5417.3	5426.7
35°	5898.3	5870.0	5863.7	5914.0	6068.1	6171.8	5939.2	5782.0	5716.0	5778.9	5778.9
37.5°	6244.2	6165.6	6105.8	6171.8	6313.3	6325.9	6127.8	6043.0	6008.4	6080.7	6077.5
40°	6407.7	6401.3	6263.1	6300.7	6489.4	6508.3	6322.7	6222.2	6215.8	6310.2	6404.5
42.5°	6577.4	6517.7	6379.3	6404.5	6520.8	6527.1	6351.1	6322.7	6391.9	6483.1	6489.4
45°	6605.7	6555.4	6467.4	6404.5	6489.4	6508.3	6404.5	6423.3	6429.7	6539.7	6539.7
47.5°	6662.3	6656.0	6605.7	6558.6	6574.3	6558.6	6492.6	6520.8	6615.2	6668.6	6643.4
50°	6819.5	6753.5	6803.8	6762.9	6766.1	6810.1	6750.3	6778.7	6759.8	6712.7	6681.2
52.5°	7165.4	7133.9	7177.9	7206.3	7237.7	7338.3	7269.1	7118.3	6976.8	6850.9	6847.8
55°	7671.6	7693.6	7778.5	7923.1	8045.7	8206.1	7872.8	7511.2	7284.9	7086.8	7099.4
57.5°	8149.5	8133.7	8250.1	8580.2	8938.6	9020.4	8366.4	7850.7	7482.9	7357.1	7303.7
59°	7765.9	7841.4	8105.5	8473.3	9036.1	9155.6	8300.4	7574.1	7184.3	6929.6	6973.6
60°	7162.3	7190.5	7426.4	7938.8	8699.7	8904.0	7857.1	7146.5	6627.7	6480.0	6546.0
62.5°	5062.0	5039.9	5209.8	5627.9	6310.2	6586.8	5841.7	5341.8	5014.8	4851.3	4889.1
65°	2691.3	2791.9	2861.1	3122.1	3483.6	3776.0	3467.9	3251.0	3068.7	2933.4	2930.3
67.5°	1817.3	1804.7	1820.4	1880.1	2002.8	2084.5	2078.2	1968.2	1952.5	1927.4	1955.6
70°	1531.2	1524.9	1496.5	1496.5	1521.8	1540.6	1562.6	1575.2	1600.4	1631.8	1628.6
72.5°	1241.9	1226.2	1207.3	1197.9	1229.3	1238.8	1267.1	1279.7	1301.7	1298.5	1326.8
75°	820.6	820.6	842.6	867.8	877.2	896.1	899.2	936.9	936.9	943.2	918.1
77.5°	459.1	446.5	462.2	487.3	509.3	544.0	578.5	606.8	622.6	616.2	616.2
80°	267.2	267.2	283.0	311.2	339.6	371.0	396.1	418.2	433.9	427.6	415.0
82.5°	166.6	166.6	182.4	210.6	232.6	251.5	286.1	314.4	333.2	327.0	311.2
85°	84.9	84.9	103.7	122.6	150.9	163.5	160.4	147.8	144.6	128.9	128.9
87.5°	22.0	22.0	31.5	34.6	28.3	31.5	31.5	31.5	31.5	31.5	34.6
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)