

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: P651606

Luminaire Tested: **GALN-SA9D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61728.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

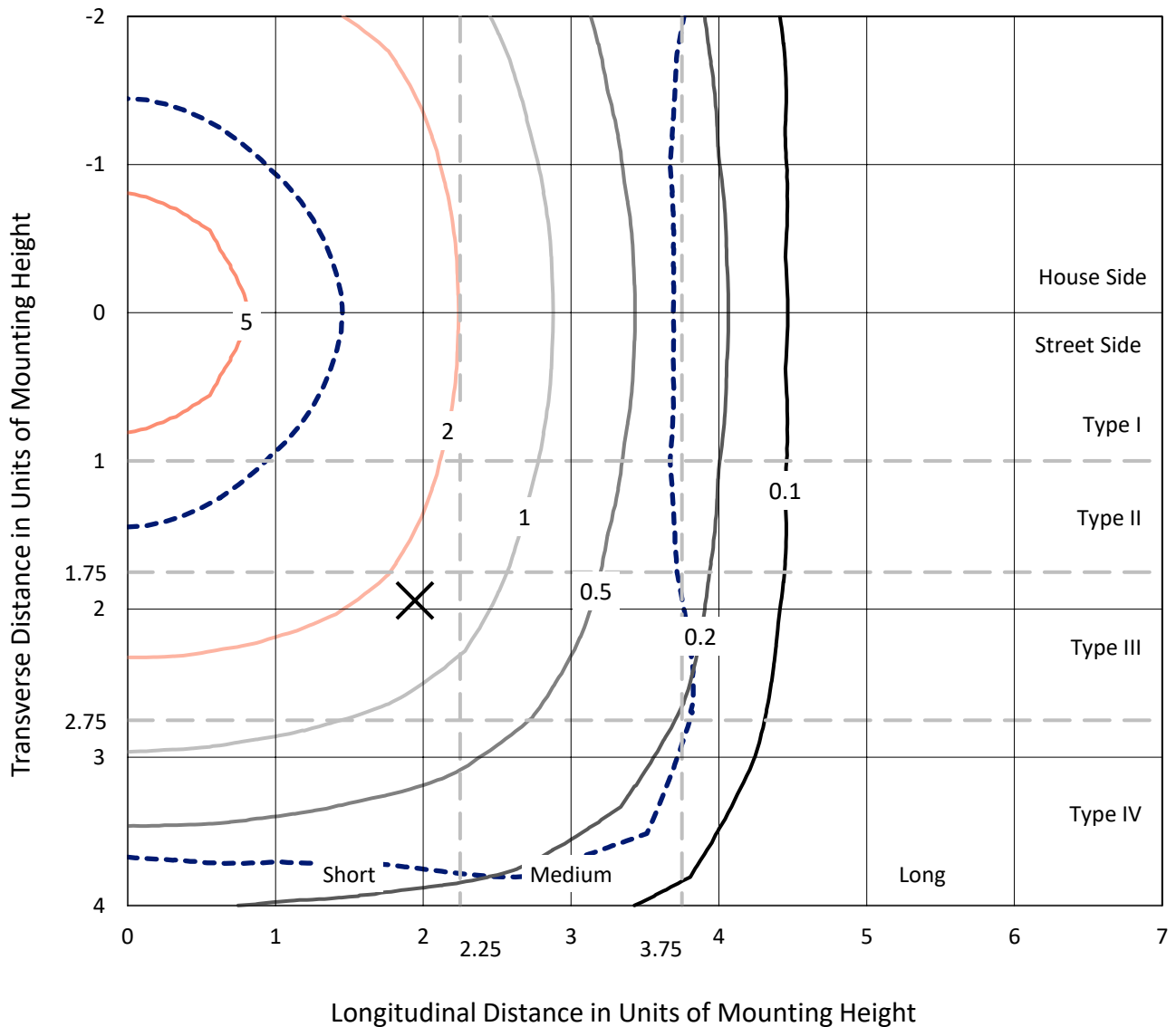
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

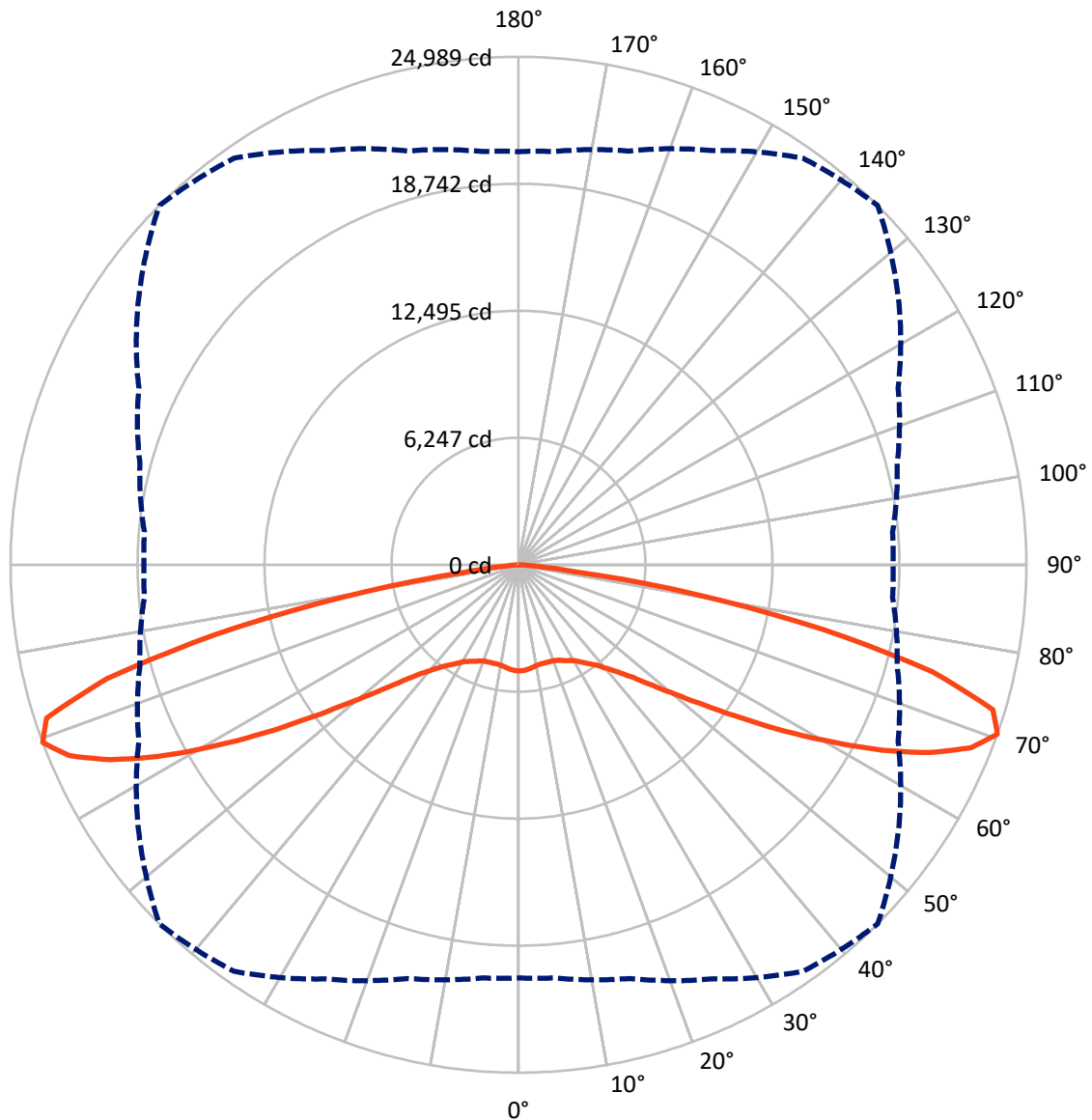
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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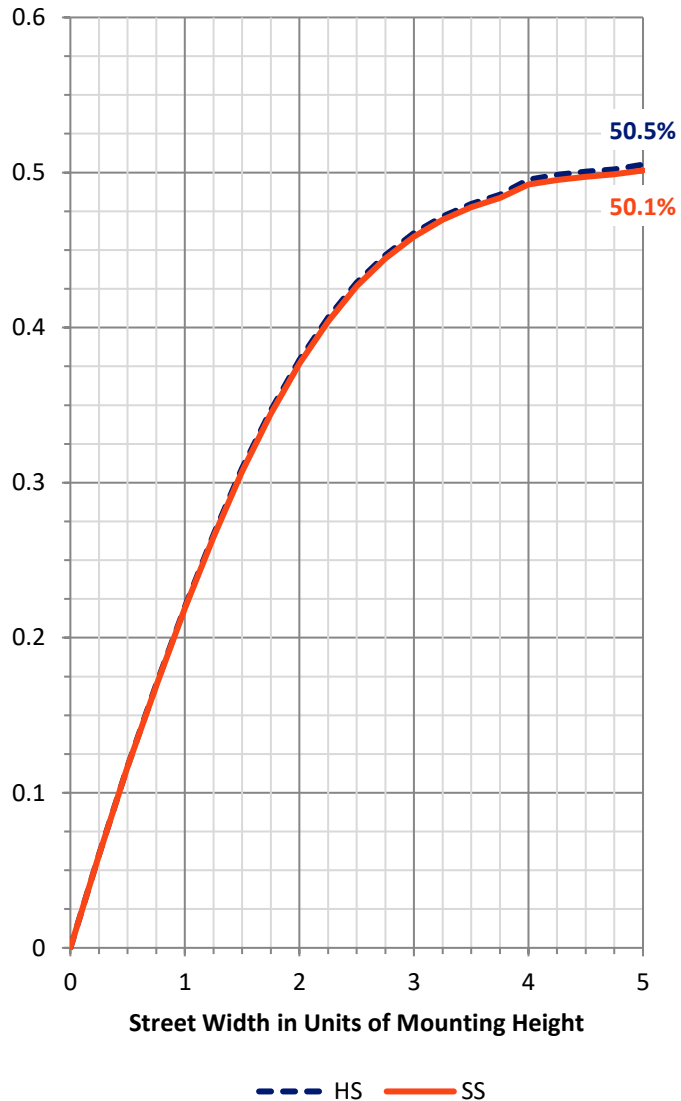
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30864.3	0.0	30864.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30864.3	0.0	30864.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	61728.6	0.0	61728.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	0.8
10°-20°	1430.8	2.3
20°-30°	2437.8	3.9
30°-40°	3778.5	6.1
40°-50°	6359.7	10.3
50°-60°	11571.3	18.7
60°-70°	19589.8	31.7
70°-80°	15163.3	24.6
80°-90°	908.6	1.5
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°	61728.6	100.0
0°-180°	61728.6	100.0

Coefficient of Utilization

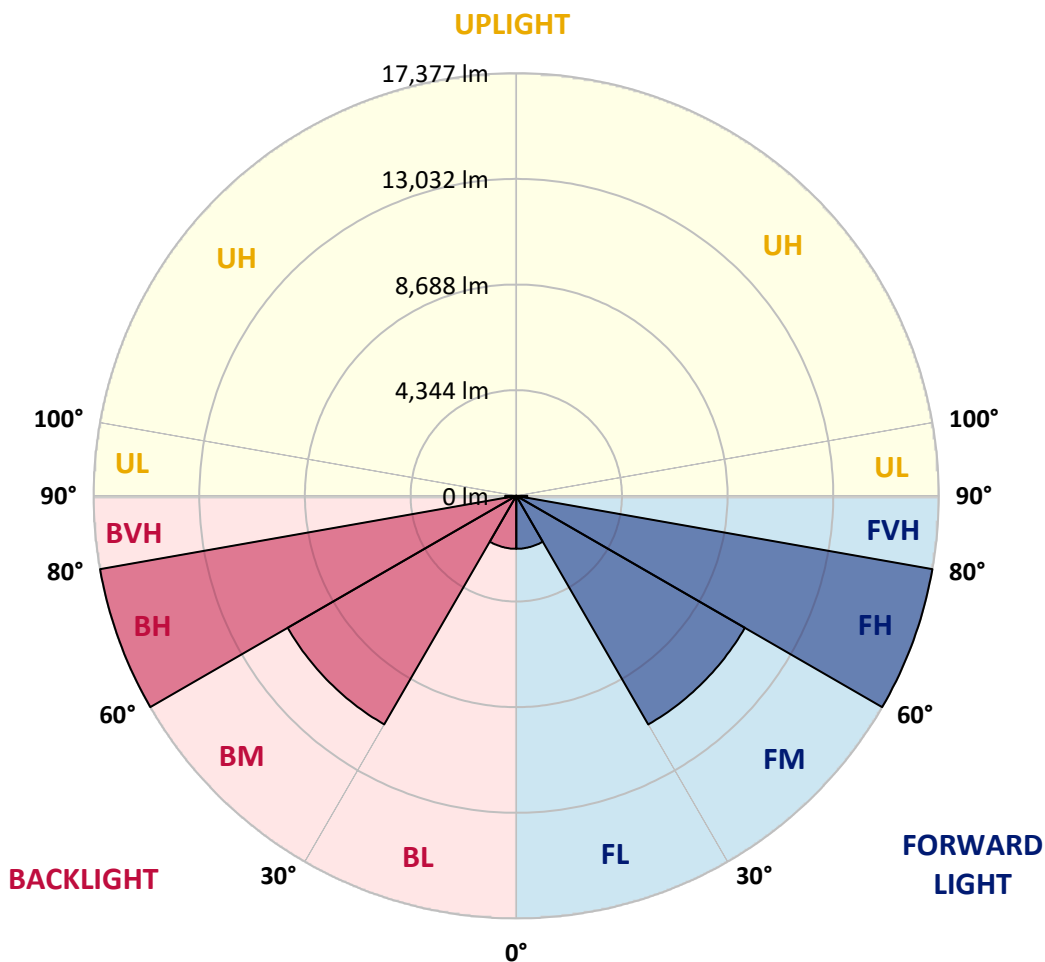


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.6	3.5			
FM (30°-60°)	10854.8	17.6			
FH (60°-80°)	17376.6	28.1			G5
FVH (80°-90°)	454.3	0.7			G3/500
BL (0°-30°)	2178.6	3.5	B3/2500		
BM (30°-60°)	10854.8	17.6	B5		
BH (60°-80°)	17376.6	28.1	B5		G5
BVH (80°-90°)	454.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1
2.5°	5213.0	5216.3	5216.3	5209.7	5206.5	5206.5	5203.3	5203.3	5213.0	5216.3	5219.6
5°	5167.4	5167.4	5167.4	5164.2	5157.6	5157.6	5151.1	5151.1	5154.3	5164.2	5157.6
7.5°	5105.5	5111.9	5111.9	5098.9	5089.1	5089.1	5085.9	5089.1	5092.4	5102.2	5098.9
10°	5085.9	5089.1	5072.8	5050.0	5033.7	5024.0	5027.2	5033.7	5050.0	5056.5	5059.8
12.5°	5098.9	5098.9	5069.5	5037.0	5007.7	4994.6	4991.3	5014.1	5043.5	5063.1	5069.5
15°	5115.2	5108.7	5072.8	5030.4	5001.1	4997.9	4994.6	5010.9	5053.3	5092.4	5095.7
17.5°	5125.1	5121.8	5076.1	5024.0	5007.7	5007.7	5004.4	5017.4	5063.1	5111.9	5115.2
20°	5157.6	5147.8	5095.7	5040.3	5027.2	5033.7	5024.0	5040.3	5089.1	5147.8	5160.9
22.5°	5222.8	5213.0	5160.9	5105.5	5098.9	5098.9	5095.7	5111.9	5164.2	5226.1	5235.9
25°	5301.1	5291.3	5242.4	5203.3	5209.7	5222.8	5216.3	5219.6	5262.0	5314.1	5330.4
27.5°	5405.4	5389.1	5346.7	5314.1	5333.7	5333.7	5333.7	5330.4	5356.5	5405.4	5421.7
30°	5532.5	5526.0	5480.4	5477.1	5493.4	5477.1	5477.1	5480.4	5483.7	5529.2	5545.6
32.5°	5698.8	5685.7	5663.0	5656.4	5702.1	5715.1	5669.4	5627.0	5649.9	5695.5	5705.3
35°	5972.7	5953.1	5920.5	5884.6	5920.5	5982.5	5884.6	5852.0	5910.7	5972.7	5979.2
37.5°	6344.3	6334.6	6282.4	6217.2	6213.9	6279.2	6178.1	6174.8	6285.6	6360.7	6370.4
40°	6810.5	6820.3	6755.1	6693.2	6660.6	6712.7	6634.5	6663.8	6771.4	6856.2	6849.7
42.5°	7465.8	7430.0	7328.9	7270.2	7234.4	7214.8	7195.3	7240.8	7361.5	7452.8	7524.5
45°	8232.0	8218.9	8091.8	8020.0	7941.8	7912.5	7906.0	7987.5	8134.2	8245.0	8254.8
47.5°	9099.2	9069.8	8988.4	8913.3	8884.0	8848.2	8815.5	8877.5	9024.2	9102.5	9125.3
50°	9992.5	9999.0	9999.0	9985.9	10015.3	10021.8	9933.8	9956.6	10038.1	10031.6	10025.1
52.5°	11012.9	11048.8	11218.3	11234.6	11374.8	11469.3	11309.6	11215.1	11185.7	11009.6	11022.7
55°	12212.7	12245.3	12499.5	12753.8	13132.0	13291.8	12955.9	12662.6	12453.9	12186.6	12199.6
57.5°	13709.1	13725.4	13966.7	14455.7	15055.5	15430.5	14840.4	14260.1	13836.2	13581.9	13480.9
60°	15319.7	15335.9	15688.0	16284.6	17217.0	17673.4	16943.2	15994.5	15459.8	15071.8	15097.9
62.5°	17252.9	17318.1	17634.3	18455.9	19587.2	20099.1	19130.7	17862.6	17138.8	16656.3	16675.9
65°	19323.2	19434.0	19779.6	20682.6	21725.9	22276.8	21090.2	19626.3	18726.5	18136.4	18198.4
67.5°	20666.3	20764.1	21262.9	22260.5	23561.4	24017.8	22485.5	20780.4	19655.7	18951.4	18821.1
70°	20324.0	20405.5	21070.6	22485.5	24412.3	24989.3	22818.0	20610.9	19287.2	18475.5	18423.3
72.5°	17940.8	17771.3	18742.8	20773.9	23440.8	24409.0	21771.6	18824.4	17158.3	16323.7	16225.9
75°	11889.9	12258.3	13692.7	16085.7	19831.7	21031.5	18583.1	15114.2	13017.9	12323.5	12215.9
77.5°	3974.1	4257.8	5532.5	9118.7	13520.0	15322.9	13539.5	9884.9	6993.1	5633.6	5659.7
80°	1053.0	1040.0	1346.4	2507.1	5842.3	8874.2	6800.7	3348.2	1832.2	1326.9	1258.5
82.5°	378.2	423.9	544.5	694.4	1548.6	2758.1	1946.3	938.9	687.9	508.6	492.3
85°	166.3	163.0	234.7	277.1	388.0	515.1	456.4	397.7	348.8	231.4	215.2
87.5°	35.8	35.8	55.4	42.4	68.5	68.5	84.8	101.1	104.3	68.5	55.4
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)