

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: P651111

Luminaire Tested: **GALN-SA9C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651111
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-SA9C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56098.9 lumens
Efficiency: N/A
Efficacy: 116.6 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

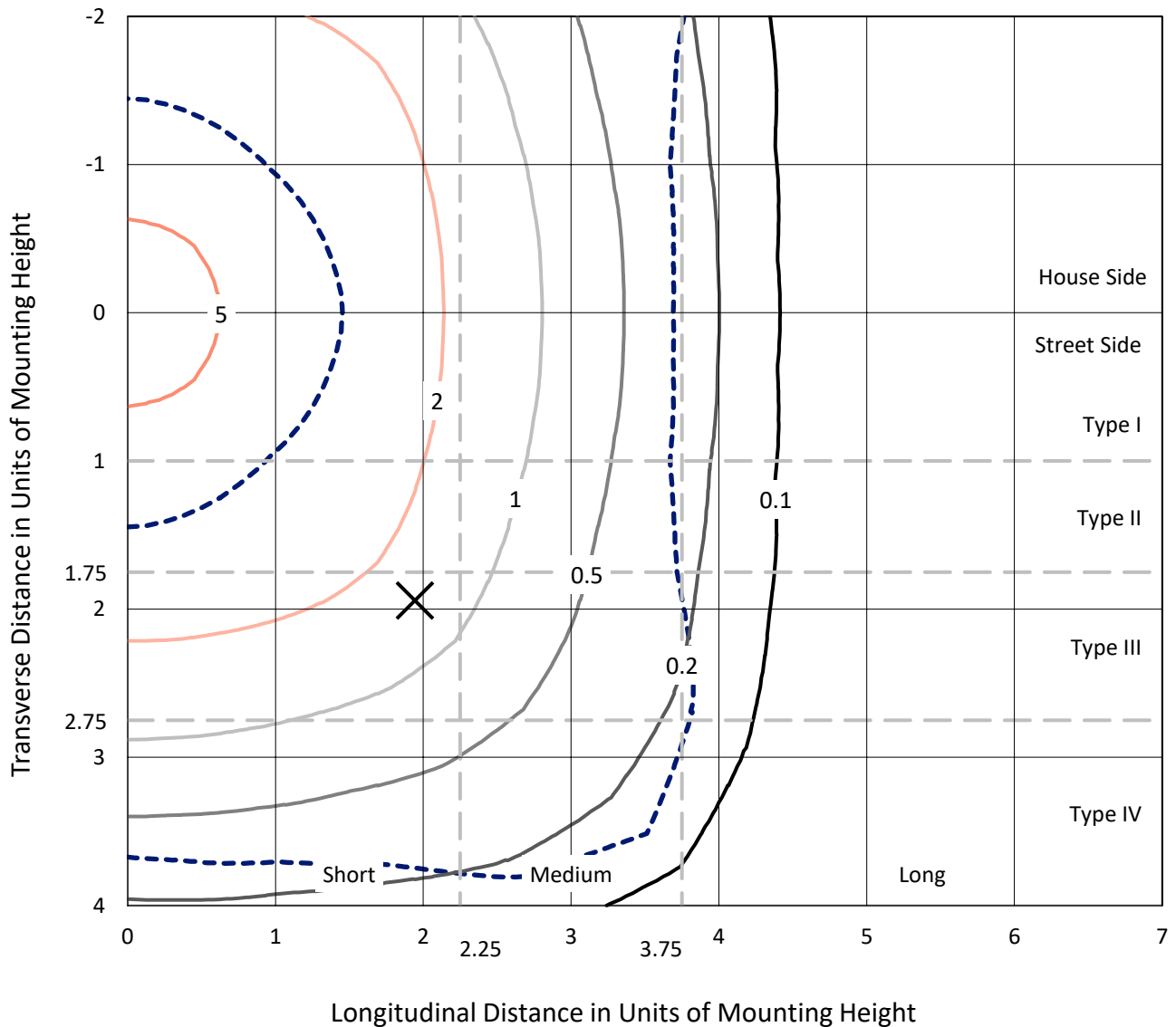
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

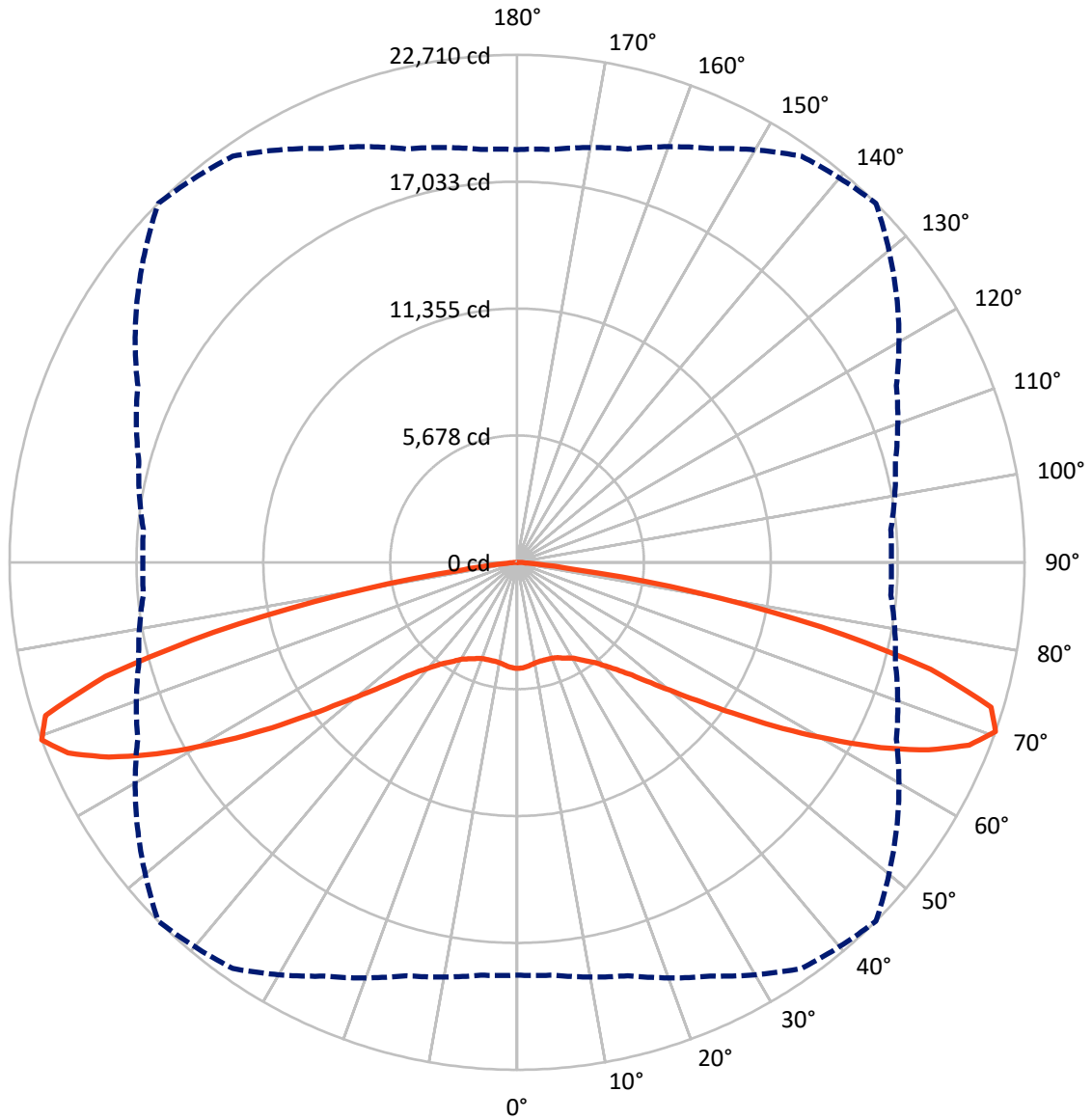
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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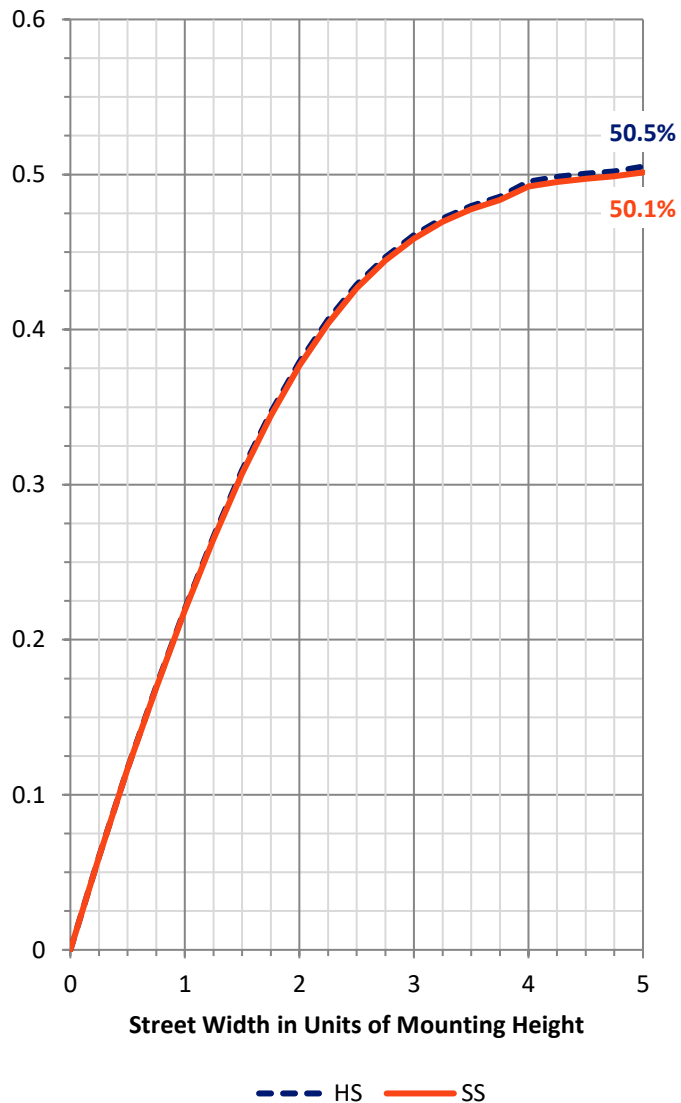
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28049.4	0.0	28049.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28049.4	0.0	28049.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	56098.9	0.0	56098.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.2	0.8
10°-20°	1300.3	2.3
20°-30°	2215.4	3.9
30°-40°	3433.9	6.1
40°-50°	5779.7	10.3
50°-60°	10516.0	18.7
60°-70°	17803.2	31.7
70°-80°	13780.4	24.6
80°-90°	825.7	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°	56098.9	100.0
0°-180°	56098.9	100.0

Coefficient of Utilization



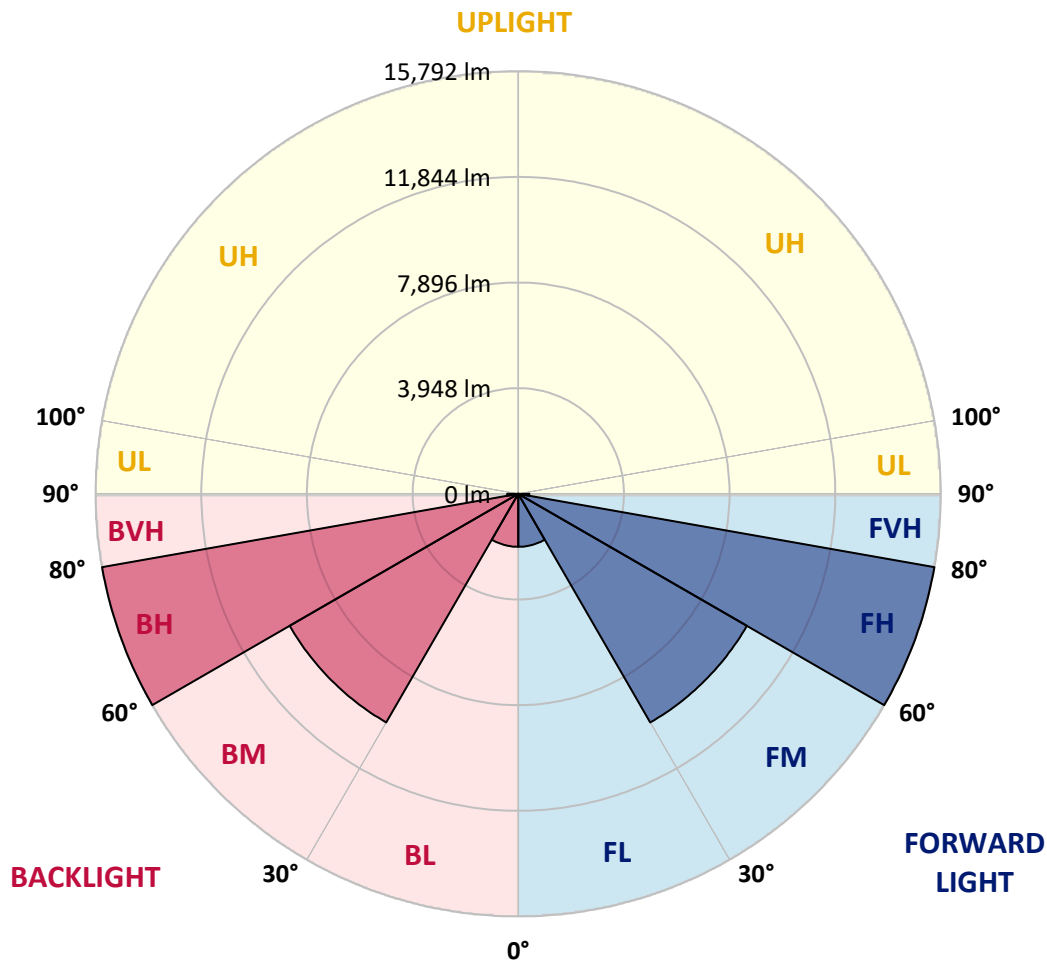
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.0	3.5			
FM (30°-60°)	9864.8	17.6			
FH (60°-80°)	15791.8	28.1			G5
FVH (80°-90°)	412.9	0.7			G3/500
BL (0°-30°)	1980.0	3.5	B3/2500		
BM (30°-60°)	9864.8	17.6	B5		
BH (60°-80°)	15791.8	28.1	B5		G5
BVH (80°-90°)	412.9	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°	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5	4749.5
2.5°	4737.6	4740.5	4740.5	4734.7	4731.7	4731.7	4728.7	4728.7	4737.6	4740.5	4743.5
5°	4696.1	4696.1	4696.1	4693.2	4687.2	4687.2	4681.3	4681.3	4684.3	4693.2	4687.2
7.5°	4639.8	4645.8	4645.8	4633.9	4625.0	4625.0	4622.1	4625.0	4628.0	4636.9	4633.9
10°	4622.1	4625.0	4610.2	4589.5	4574.6	4565.8	4568.7	4574.6	4589.5	4595.4	4598.3
12.5°	4633.9	4633.9	4607.3	4577.6	4551.0	4539.1	4536.1	4556.9	4583.5	4601.3	4607.3
15°	4648.7	4642.8	4610.2	4571.7	4545.0	4542.1	4539.1	4553.9	4592.4	4628.0	4631.0
17.5°	4657.6	4654.7	4613.1	4565.8	4551.0	4551.0	4548.0	4559.8	4601.3	4645.8	4648.7
20°	4687.2	4678.3	4631.0	4580.6	4568.7	4574.6	4565.8	4580.6	4625.0	4678.3	4690.2
22.5°	4746.5	4737.6	4690.2	4639.8	4633.9	4633.9	4631.0	4645.8	4693.2	4749.5	4758.4
25°	4817.6	4808.8	4764.3	4728.7	4734.7	4746.5	4740.5	4743.5	4782.0	4829.4	4844.2
27.5°	4912.4	4897.6	4859.0	4829.4	4847.3	4847.3	4847.3	4844.2	4868.0	4912.4	4927.3
30°	5028.0	5022.0	4980.6	4977.6	4992.4	4977.6	4977.6	4980.6	4983.5	5025.0	5039.9
32.5°	5179.0	5167.2	5146.5	5140.5	5182.1	5193.8	5152.4	5113.9	5134.6	5176.1	5185.0
35°	5428.0	5410.2	5380.5	5347.9	5380.5	5436.8	5347.9	5318.3	5371.6	5428.0	5433.9
37.5°	5765.7	5756.8	5709.5	5650.2	5647.2	5706.4	5614.6	5611.7	5712.4	5780.5	5789.4
40°	6189.4	6198.3	6139.0	6082.8	6053.1	6100.5	6029.4	6056.0	6153.8	6230.9	6225.0
42.5°	6784.9	6752.4	6660.5	6607.1	6574.6	6556.8	6539.0	6580.5	6690.2	6773.1	6838.3
45°	7481.2	7469.3	7353.8	7288.6	7217.5	7190.9	7184.9	7259.0	7392.3	7493.1	7502.0
47.5°	8269.3	8242.6	8168.6	8100.4	8073.8	8041.2	8011.5	8067.9	8201.2	8272.3	8293.0
50°	9081.1	9087.1	9087.1	9075.2	9101.9	9107.9	9027.8	9048.6	9122.7	9116.7	9110.8
52.5°	10008.5	10041.1	10195.2	10210.0	10337.4	10423.4	10278.1	10192.2	10165.6	10005.5	10017.4
55°	11098.8	11128.4	11359.6	11590.7	11934.4	12079.5	11774.4	11507.7	11318.1	11075.1	11087.0
57.5°	12458.8	12473.6	12692.9	13137.3	13682.5	14023.2	13486.9	12959.6	12574.4	12343.3	12251.4
60°	13922.5	13937.3	14257.3	14799.5	15646.8	16061.7	15398.0	14535.8	14049.8	13697.3	13721.0
62.5°	15679.4	15738.7	16026.1	16772.7	17800.9	18266.0	17386.1	16233.5	15575.7	15137.2	15155.0
65°	17560.8	17661.6	17975.6	18796.4	19744.5	20245.2	19166.7	17836.4	17018.6	16482.3	16538.7
67.5°	18781.5	18870.4	19323.7	20230.4	21412.5	21827.4	20434.8	18885.2	17863.1	17223.1	17104.6
70°	18470.5	18544.6	19149.0	20434.8	22185.8	22710.3	20737.0	18731.2	17528.3	16790.5	16743.1
72.5°	16304.6	16150.6	17033.4	18879.4	21303.0	22182.9	19786.0	17107.5	15593.5	14835.0	14746.2
75°	10805.5	11140.3	12444.0	14618.8	18023.1	19113.4	16888.3	13735.8	11830.7	11199.6	11101.8
77.5°	3611.8	3869.5	5028.0	8287.1	12286.9	13925.4	12304.8	8983.4	6355.4	5119.8	5143.6
80°	957.0	945.1	1223.7	2278.4	5309.4	8064.9	6180.5	3042.8	1665.1	1205.9	1143.7
82.5°	343.7	385.2	494.8	631.1	1407.3	2506.6	1768.8	853.3	625.2	462.2	447.4
85°	151.1	148.2	213.4	251.9	352.5	468.1	414.8	361.5	317.1	210.3	195.5
87.5°	32.6	32.6	50.4	38.5	62.2	62.2	77.0	91.8	94.8	62.2	50.4
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)