

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: P647145

Luminaire Tested: **GALN-SA9C-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52340.4 lumens
Efficiency: N/A
Efficacy: 108.8 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

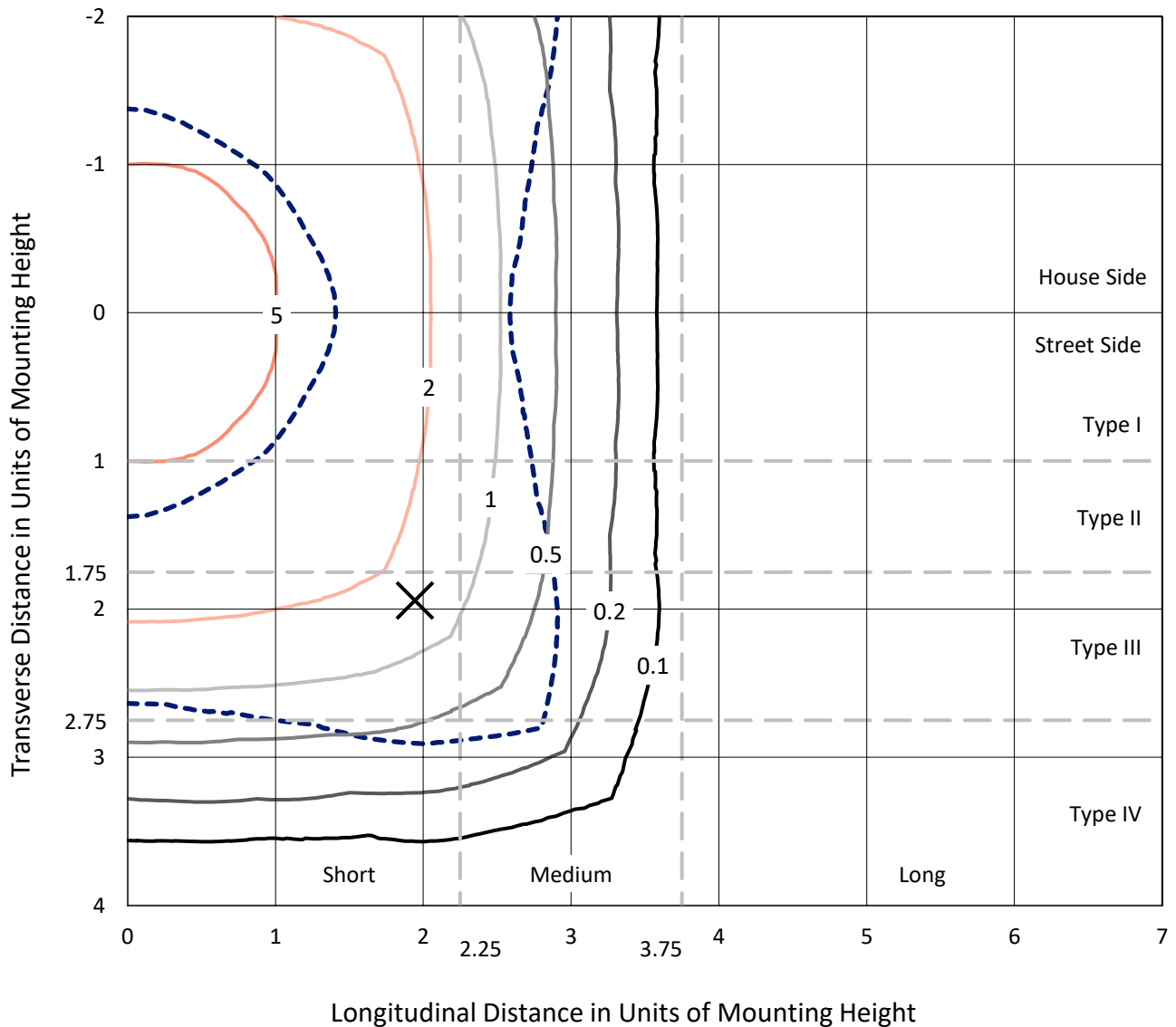
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

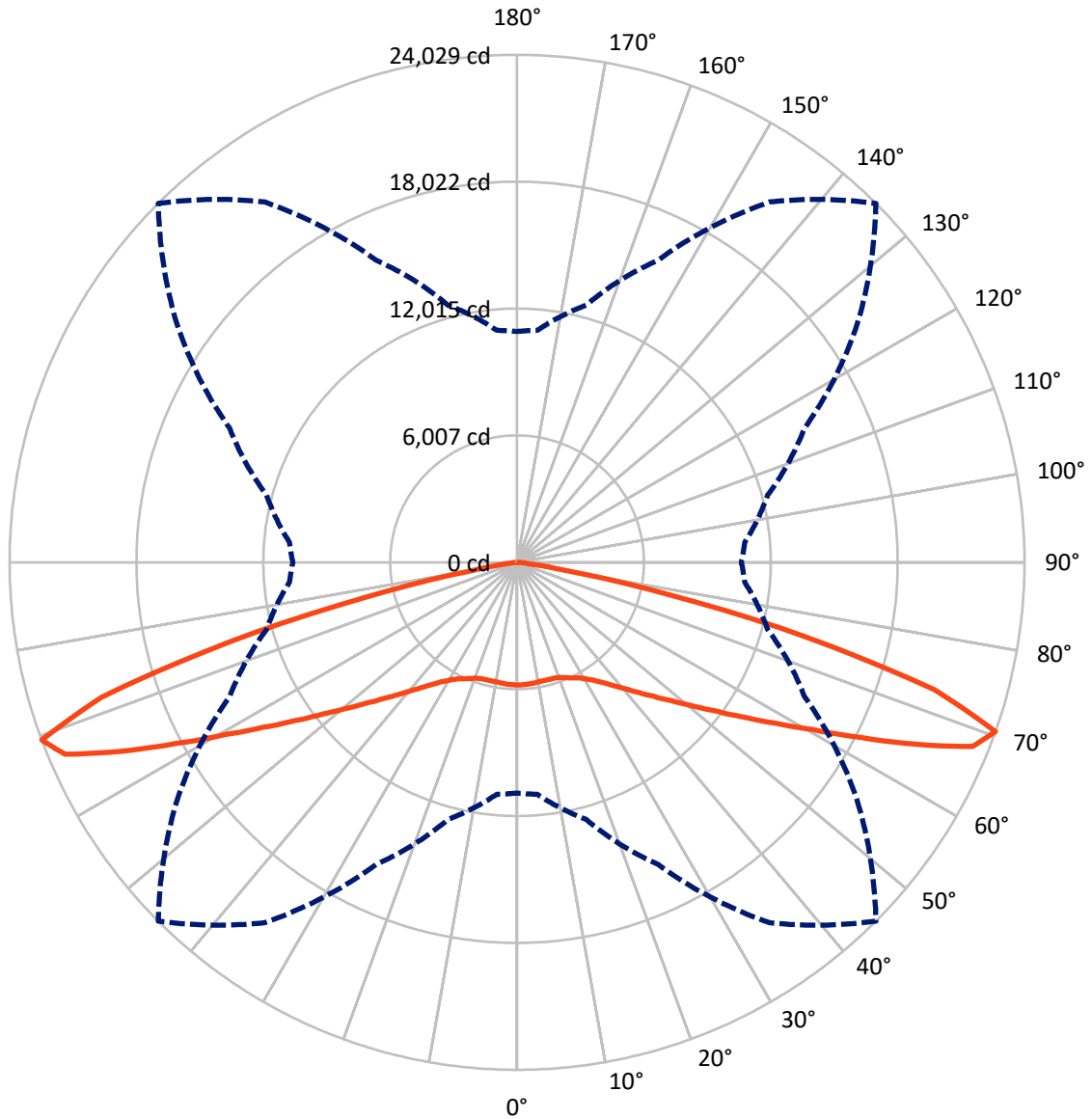
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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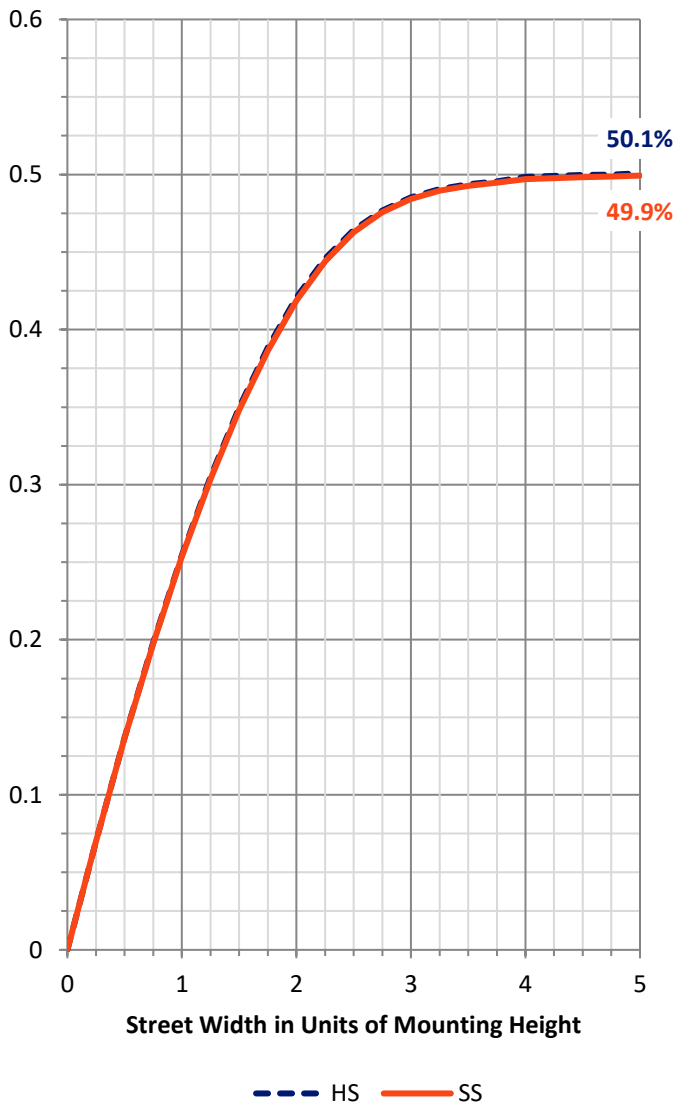
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26170.2	0.0	26170.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26170.2	0.0	26170.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	52340.4	0.0	52340.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	1.1
10°-20°	1617.3	3.1
20°-30°	2766.1	5.3
30°-40°	4390.5	8.4
40°-50°	7083.0	13.5
50°-60°	11524.1	22.0
60°-70°	16705.8	31.9
70°-80°	7410.1	14.2
80°-90°	292.3	0.6
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°	52340.4	100.0
0°-180°	52340.4	100.0

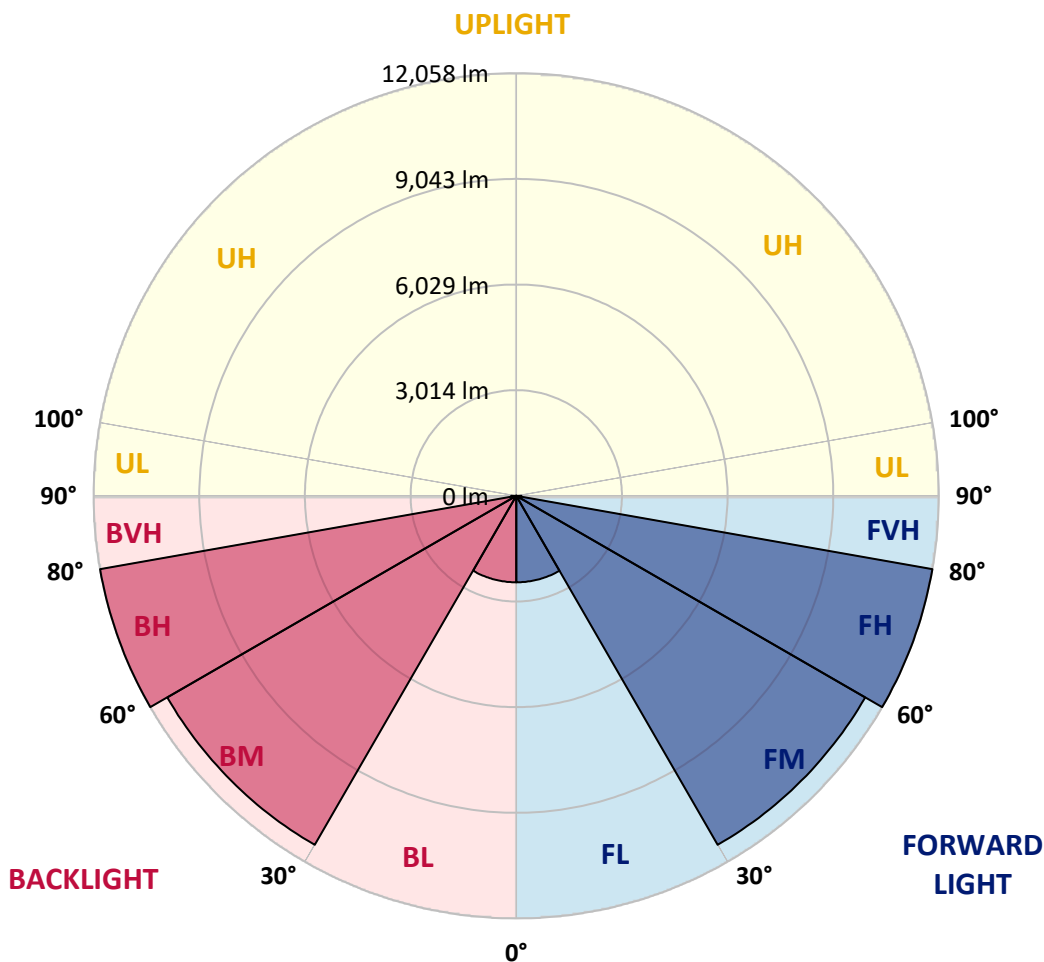


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.3	4.7			
FM (30°-60°)	11498.8	22.0			
FH (60°-80°)	12058.0	23.0			G5
FVH (80°-90°)	146.1	0.3			G2/225
BL (0°-30°)	2467.3	4.7	B3/2500		
BM (30°-60°)	11498.8	22.0	B5		
BH (60°-80°)	12058.0	23.0	B5		G5
BVH (80°-90°)	146.1	0.3			G2/225
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°	5812.1	5812.1	5812.1	5812.1	5812.1	5812.1	5812.1	5812.1	5812.1	5812.1	5812.1
2.5°	5812.1	5817.7	5809.4	5803.9	5801.1	5801.1	5798.3	5801.1	5817.7	5820.4	5812.1
5°	5795.6	5801.1	5798.3	5792.9	5790.1	5790.1	5787.3	5784.6	5798.3	5803.9	5801.1
7.5°	5773.5	5776.3	5773.5	5770.8	5773.5	5770.8	5762.5	5757.0	5768.0	5768.0	5765.2
10°	5734.9	5740.4	5737.7	5740.4	5746.0	5746.0	5734.9	5723.9	5726.6	5721.1	5721.1
12.5°	5688.0	5696.3	5699.1	5710.1	5723.9	5740.4	5715.6	5690.8	5685.3	5682.5	5679.7
15°	5657.6	5665.9	5677.0	5688.0	5712.8	5748.7	5712.8	5674.2	5663.2	5652.2	5646.7
17.5°	5649.4	5660.5	5677.0	5693.5	5726.6	5762.5	5732.2	5693.5	5665.9	5649.4	5643.9
20°	5671.5	5679.7	5704.5	5734.9	5781.8	5817.7	5787.3	5746.0	5704.5	5679.7	5671.5
22.5°	5715.6	5729.4	5759.7	5814.9	5881.1	5933.5	5892.2	5823.2	5757.0	5723.9	5712.8
25°	5812.1	5823.2	5859.0	5933.5	6010.8	6060.4	6016.3	5936.3	5845.3	5801.1	5787.3
27.5°	5958.4	5974.9	6013.5	6101.8	6165.3	6192.8	6162.5	6107.3	6041.1	5994.3	5983.2
30°	6165.3	6184.5	6242.5	6336.3	6377.6	6394.2	6380.4	6344.6	6297.7	6248.0	6237.0
32.5°	6443.9	6454.9	6521.1	6609.4	6648.0	6653.5	6636.9	6620.4	6543.1	6460.4	6454.9
35°	6755.6	6774.9	6854.9	6959.7	6995.6	6998.3	6965.2	6940.4	6849.4	6783.1	6783.1
37.5°	7169.3	7177.6	7254.9	7373.4	7412.1	7401.1	7384.5	7362.5	7265.8	7180.3	7183.2
40°	7654.8	7671.4	7737.6	7875.5	7875.5	7861.7	7872.8	7856.2	7759.7	7676.9	7679.7
42.5°	8231.4	8239.7	8319.6	8465.8	8454.8	8427.2	8438.2	8416.2	8355.5	8261.7	8228.6
45°	8846.5	8879.6	9017.5	9158.2	9136.1	9047.9	9092.0	9086.5	9031.4	8890.7	8899.0
47.5°	9588.5	9643.7	9776.1	9944.4	9919.6	9781.6	9831.3	9864.4	9787.2	9632.7	9605.1
50°	10424.4	10460.3	10656.1	10813.3	10791.2	10645.0	10758.1	10763.7	10570.6	10352.7	10352.7
52.5°	11315.4	11351.2	11616.0	11861.5	11875.4	11662.9	11753.9	11748.4	11434.0	11147.1	11091.9
55°	12313.9	12330.5	12672.5	13033.9	13111.2	12904.2	12915.3	12804.9	12396.7	12062.9	12032.6
57.5°	13345.6	13406.3	13784.2	14253.2	14482.1	14355.2	14297.3	14002.2	13607.7	13224.2	13204.9
60°	14487.6	14490.4	14981.4	15535.9	15999.3	16084.8	15847.6	15453.1	14942.8	14435.2	14413.2
62.5°	15279.3	15397.9	16018.6	16956.5	17786.8	18266.8	17640.6	16813.0	15808.9	14989.7	14906.9
65°	15442.1	15522.0	16468.2	18057.2	19753.6	20788.0	19339.9	17579.9	15866.9	14774.5	14719.4
67.5°	14126.3	14211.8	15486.2	17924.7	21132.9	23254.2	20443.3	17210.3	14884.8	13533.2	13425.6
70°	10926.5	11023.0	12598.1	15778.6	20826.7	24029.3	19657.1	15011.8	12275.3	10816.0	10620.2
72.5°	5809.4	6165.3	7511.4	10829.8	16904.1	20688.7	16117.9	10954.0	7916.9	6471.4	6212.2
75°	2121.3	2165.4	2915.7	4802.5	9834.0	14186.9	10212.0	5224.6	3004.0	2319.9	2201.2
77.5°	877.2	874.5	960.0	1451.0	3572.3	7265.8	3986.0	1533.7	957.2	885.5	874.5
80°	518.6	518.6	571.0	604.1	940.6	2193.0	1051.0	684.1	573.8	524.1	532.4
82.5°	231.7	245.5	361.4	380.7	455.2	601.3	507.5	435.8	375.1	259.3	234.5
85°	126.9	110.3	190.3	198.6	217.9	223.5	240.0	237.2	217.9	126.9	129.7
87.5°	24.8	30.4	55.2	41.3	46.9	41.3	55.2	77.2	80.0	44.2	35.9
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)