

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: P647090

Luminaire Tested: **GALN-SA8C-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647090
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-SA8C-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 46621.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

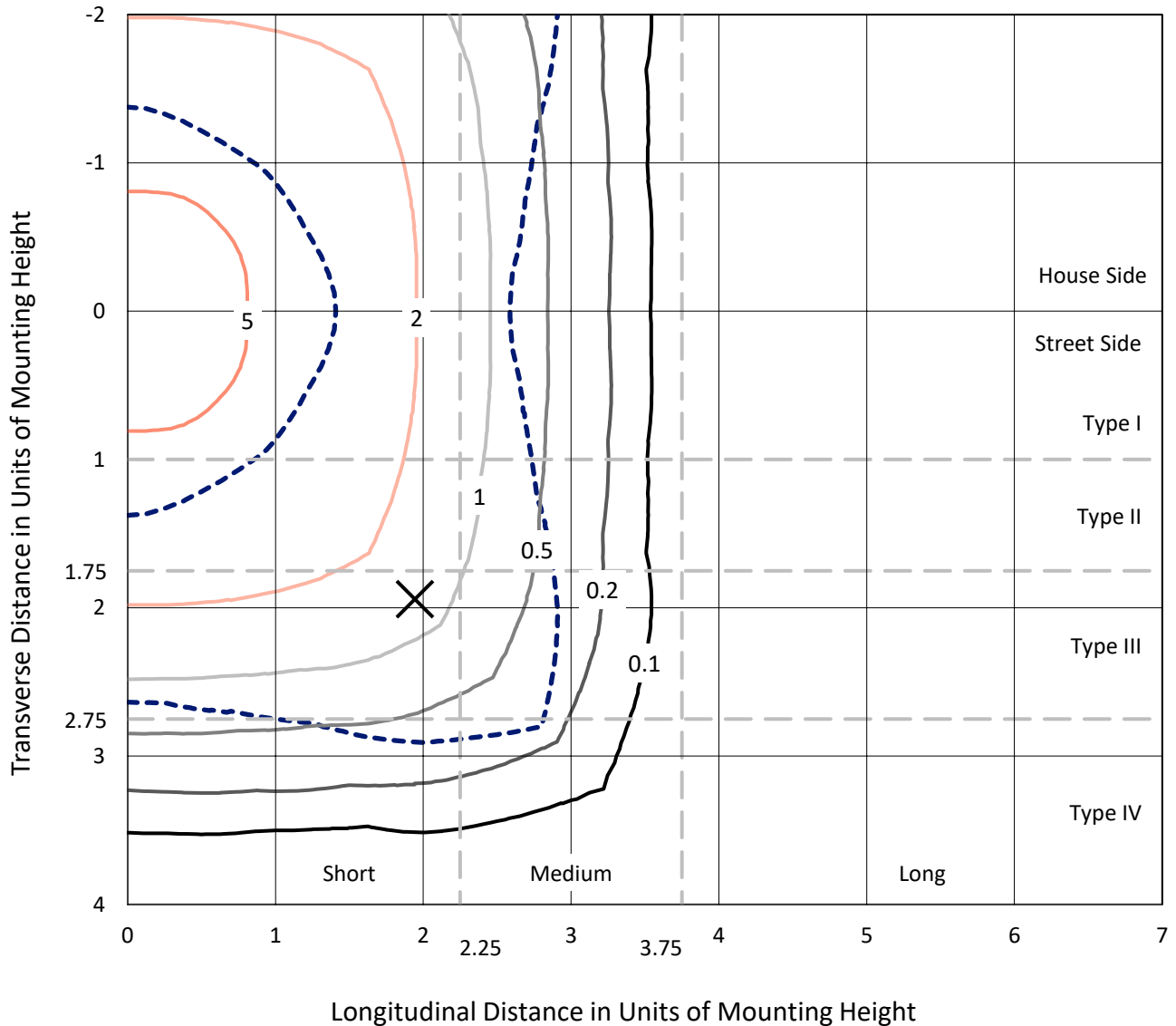
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

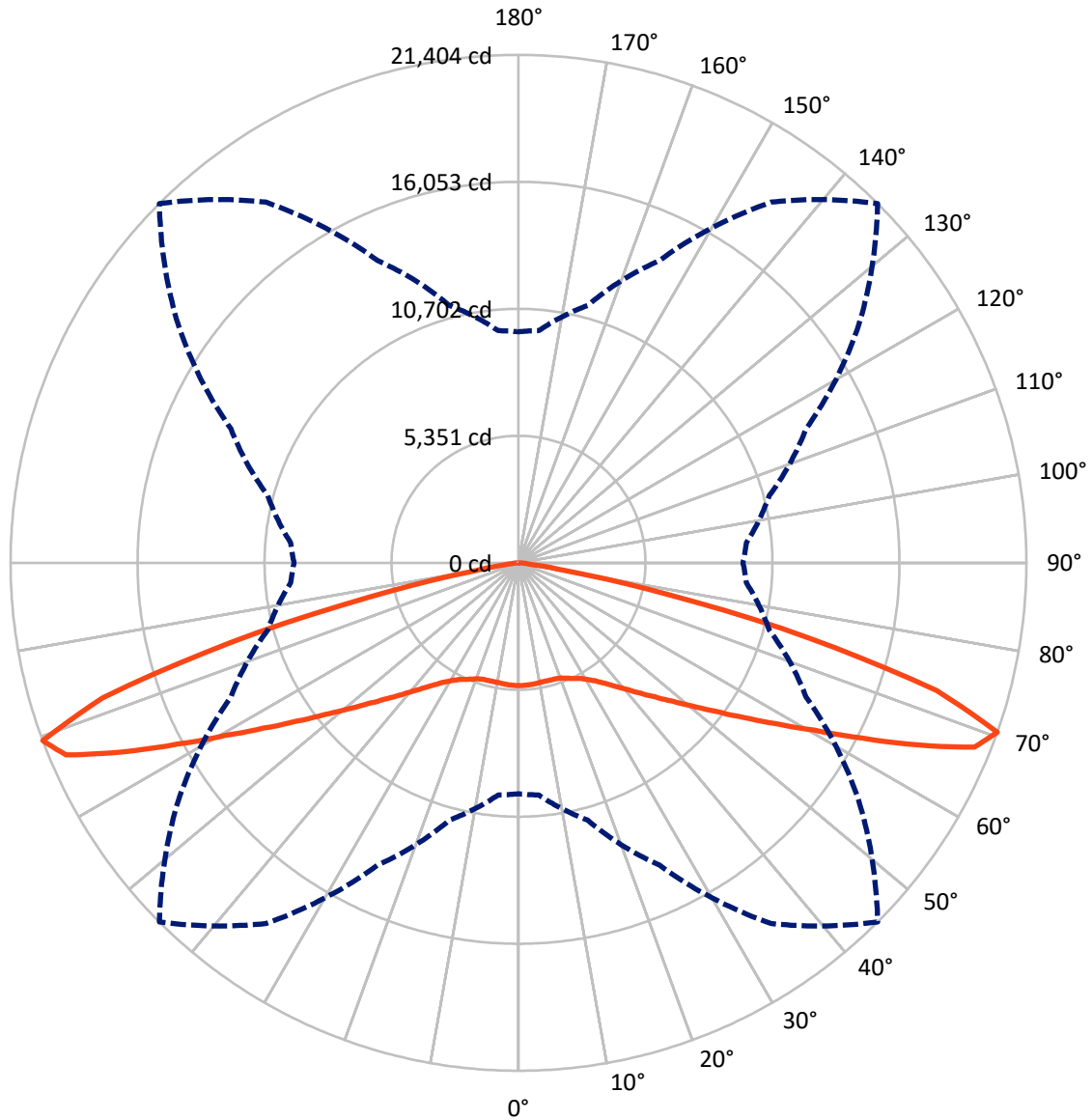
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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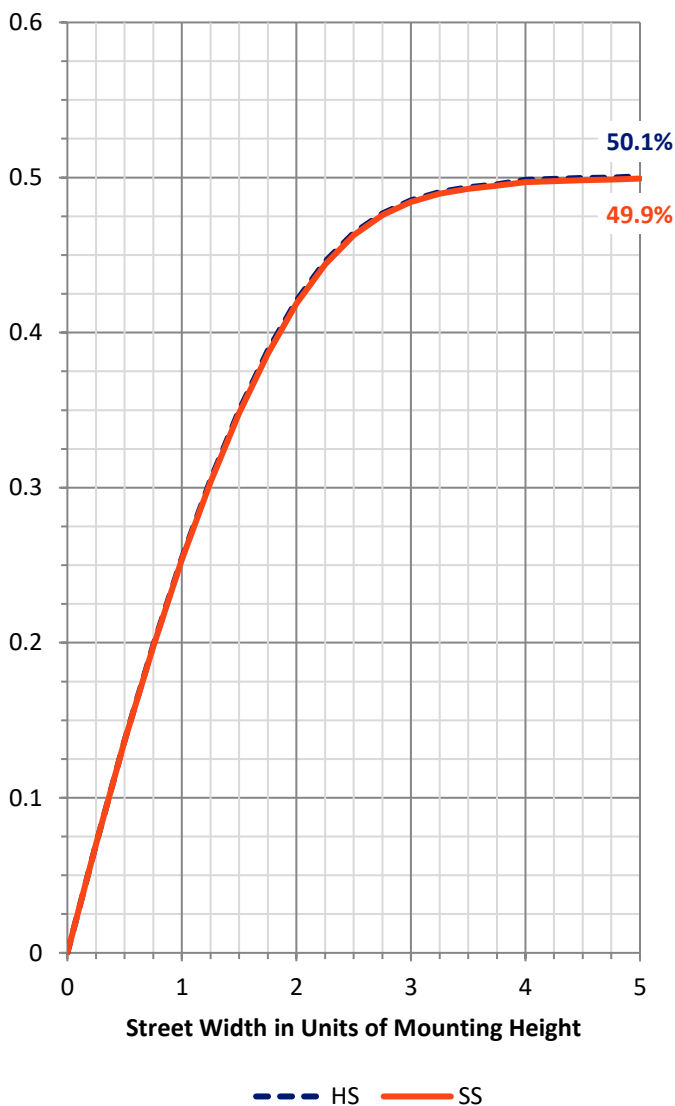
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23310.7	0.0	23310.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23310.7	0.0	23310.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	46621.4	0.0	46621.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	1.1
10°-20°	1440.6	3.1
20°-30°	2463.9	5.3
30°-40°	3910.7	8.4
40°-50°	6309.0	13.5
50°-60°	10265.0	22.0
60°-70°	14880.5	31.9
70°-80°	6600.4	14.2
80°-90°	260.3	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°	46621.4	100.0
0°-180°	46621.4	100.0

Coefficient of Utilization



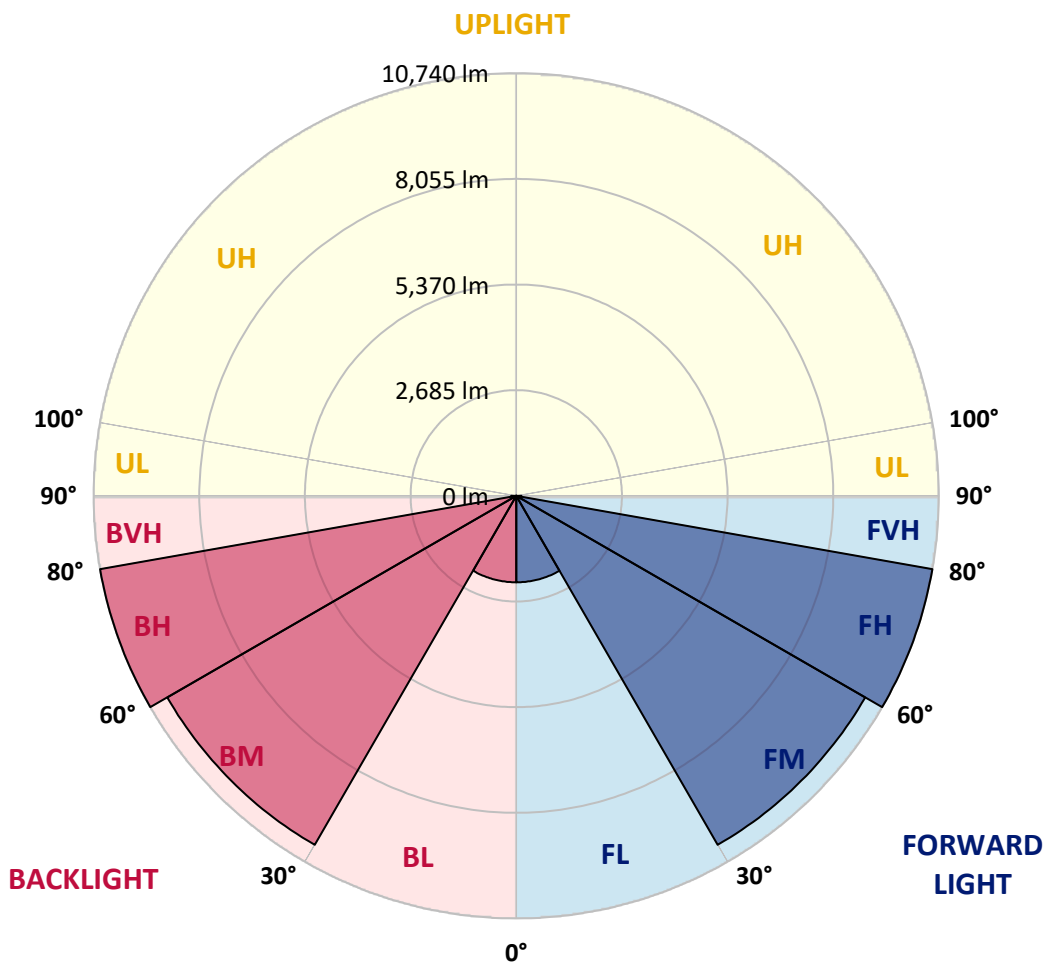
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.7	4.7			
FM (30°-60°)	10242.4	22.0			
FH (60°-80°)	10740.5	23.0			G4/12000
FVH (80°-90°)	130.2	0.3			G2/225
BL (0°-30°)	2197.7	4.7	B3/2500		
BM (30°-60°)	10242.4	22.0	B5		
BH (60°-80°)	10740.5	23.0	B5		G4/12000
BVH (80°-90°)	130.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5177.1	5177.1	5177.1	5177.1	5177.1	5177.1	5177.1	5177.1	5177.1	5177.1	5177.1
2.5°	5177.1	5182.0	5174.6	5169.7	5167.3	5167.3	5164.8	5167.3	5182.0	5184.5	5177.1
5°	5162.3	5167.3	5164.8	5159.9	5157.5	5157.5	5155.0	5152.5	5164.8	5169.7	5167.3
7.5°	5142.7	5145.2	5142.7	5140.2	5142.7	5140.2	5132.9	5127.9	5137.7	5137.7	5135.3
10°	5108.3	5113.2	5110.7	5113.2	5118.1	5118.1	5108.3	5098.4	5100.9	5096.0	5096.0
12.5°	5066.5	5073.9	5076.3	5086.2	5098.4	5113.2	5091.1	5069.0	5064.1	5061.6	5059.1
15°	5039.5	5046.8	5056.7	5066.5	5088.6	5120.6	5088.6	5054.3	5044.4	5034.6	5029.7
17.5°	5032.1	5042.0	5056.7	5071.4	5100.9	5132.9	5105.9	5071.4	5046.8	5032.1	5027.2
20°	5051.8	5059.1	5081.3	5108.3	5150.0	5182.0	5155.0	5118.1	5081.3	5059.1	5051.8
22.5°	5091.1	5103.4	5130.4	5179.5	5238.5	5285.2	5248.4	5186.9	5127.9	5098.4	5088.6
25°	5177.1	5186.9	5218.9	5285.2	5354.0	5398.2	5358.9	5287.7	5206.6	5167.3	5155.0
27.5°	5307.3	5322.1	5356.4	5435.1	5491.6	5516.2	5489.1	5440.0	5381.0	5339.3	5329.4
30°	5491.6	5508.8	5560.4	5643.9	5680.8	5695.5	5683.2	5651.3	5609.6	5565.3	5555.5
32.5°	5739.8	5749.6	5808.5	5887.2	5921.6	5926.5	5911.7	5897.0	5828.2	5754.5	5749.6
35°	6017.4	6034.6	6105.8	6199.2	6231.2	6233.6	6204.2	6182.0	6101.0	6041.9	6041.9
37.5°	6386.0	6393.4	6462.2	6567.8	6602.2	6592.4	6577.6	6557.9	6472.0	6395.8	6398.3
40°	6818.4	6833.2	6892.1	7015.0	7015.0	7002.7	7012.5	6997.7	6911.8	6838.1	6840.5
42.5°	7331.9	7339.3	7410.5	7540.8	7531.0	7506.4	7516.3	7496.6	7442.5	7358.9	7329.5
45°	7879.9	7909.4	8032.2	8157.5	8137.9	8059.3	8098.6	8093.6	8044.5	7919.2	7926.5
47.5°	8540.8	8590.0	8707.9	8857.8	8835.7	8712.8	8757.1	8786.5	8717.8	8580.1	8555.6
50°	9285.4	9317.3	9491.8	9631.8	9612.1	9481.9	9582.7	9587.5	9415.6	9221.5	9221.5
52.5°	10079.0	10111.0	10346.8	10565.5	10577.8	10388.5	10469.6	10464.7	10184.6	9929.1	9880.0
55°	10968.4	10983.2	11287.9	11609.8	11678.5	11494.3	11504.1	11405.8	11042.2	10744.9	10717.8
57.5°	11887.4	11941.5	12278.1	12695.8	12899.7	12786.7	12735.1	12472.2	12120.8	11779.3	11762.1
60°	12904.6	12907.1	13344.4	13838.4	14251.1	14327.3	14116.0	13764.6	13310.1	12858.0	12838.3
62.5°	13609.8	13715.5	14268.3	15103.8	15843.3	16270.8	15713.1	14976.0	14081.6	13351.8	13278.1
65°	13754.8	13826.1	14668.8	16084.1	17595.2	18516.6	17226.6	15659.1	14133.2	13160.2	13111.0
67.5°	12582.7	12658.9	13794.1	15966.2	18823.8	20713.2	18209.4	15329.8	13258.5	12054.4	11958.7
70°	9732.5	9818.5	11221.5	14054.5	18551.0	21403.7	17509.2	13371.4	10934.0	9634.3	9459.8
72.5°	5174.6	5491.6	6690.7	9646.6	15057.0	18428.1	14356.8	9757.1	7051.9	5764.4	5533.4
75°	1889.5	1928.8	2597.1	4277.8	8759.5	12636.8	9096.1	4653.8	2675.7	2066.4	1960.8
77.5°	781.4	778.9	855.0	1292.4	3182.0	6472.0	3550.5	1366.2	852.6	788.7	778.9
80°	462.0	462.0	508.6	538.1	837.9	1953.4	936.2	609.3	511.1	466.8	474.2
82.5°	206.4	218.7	321.9	339.1	405.4	535.7	452.1	388.2	334.2	231.0	208.8
85°	113.1	98.3	169.5	176.9	194.1	199.0	213.8	211.3	194.1	113.1	115.5
87.5°	22.1	27.0	49.2	36.9	41.7	36.9	49.2	68.8	71.3	39.3	31.9
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)