

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: P533611

Luminaire Tested: **GALN-SA9A-740-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26792 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

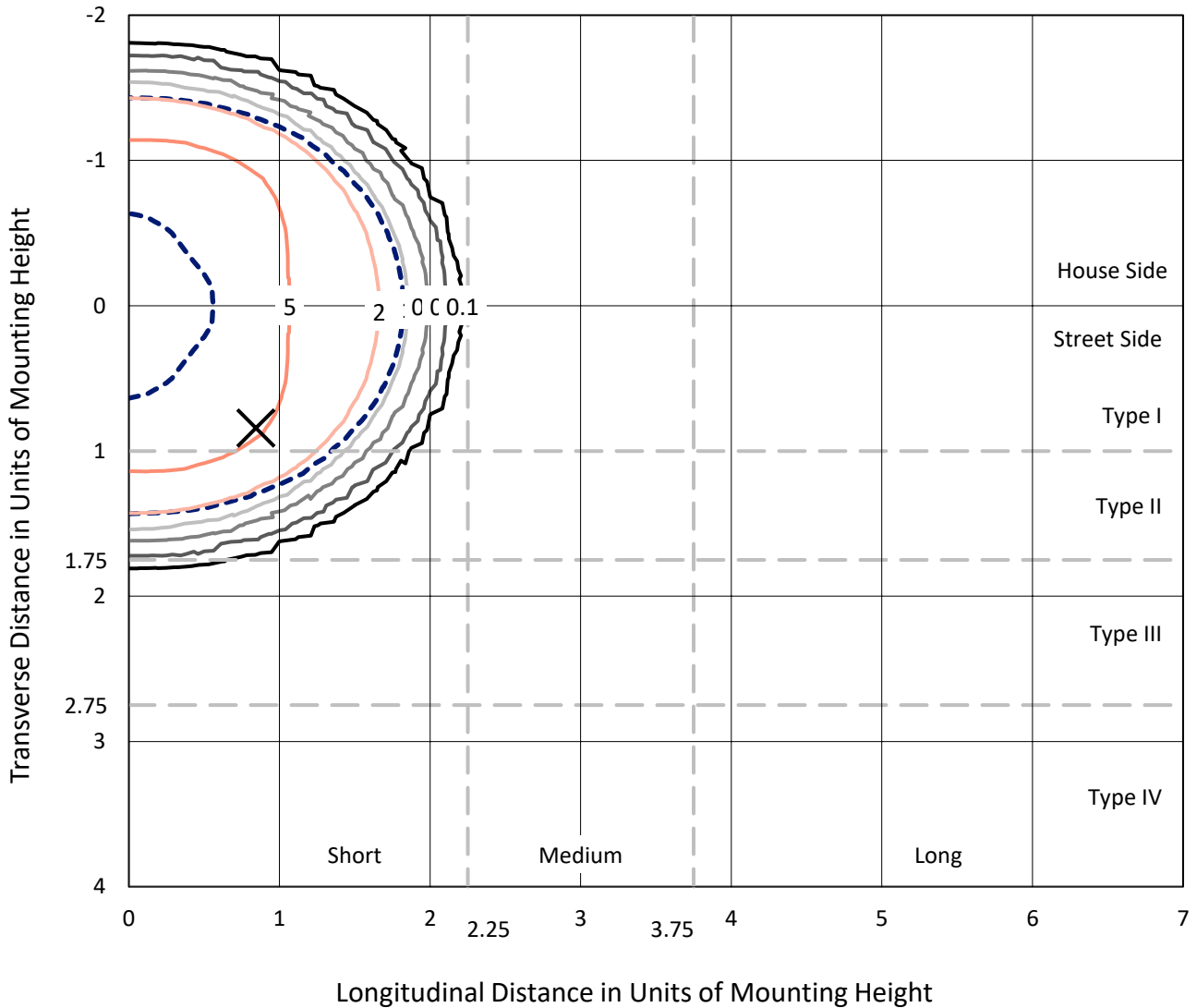
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

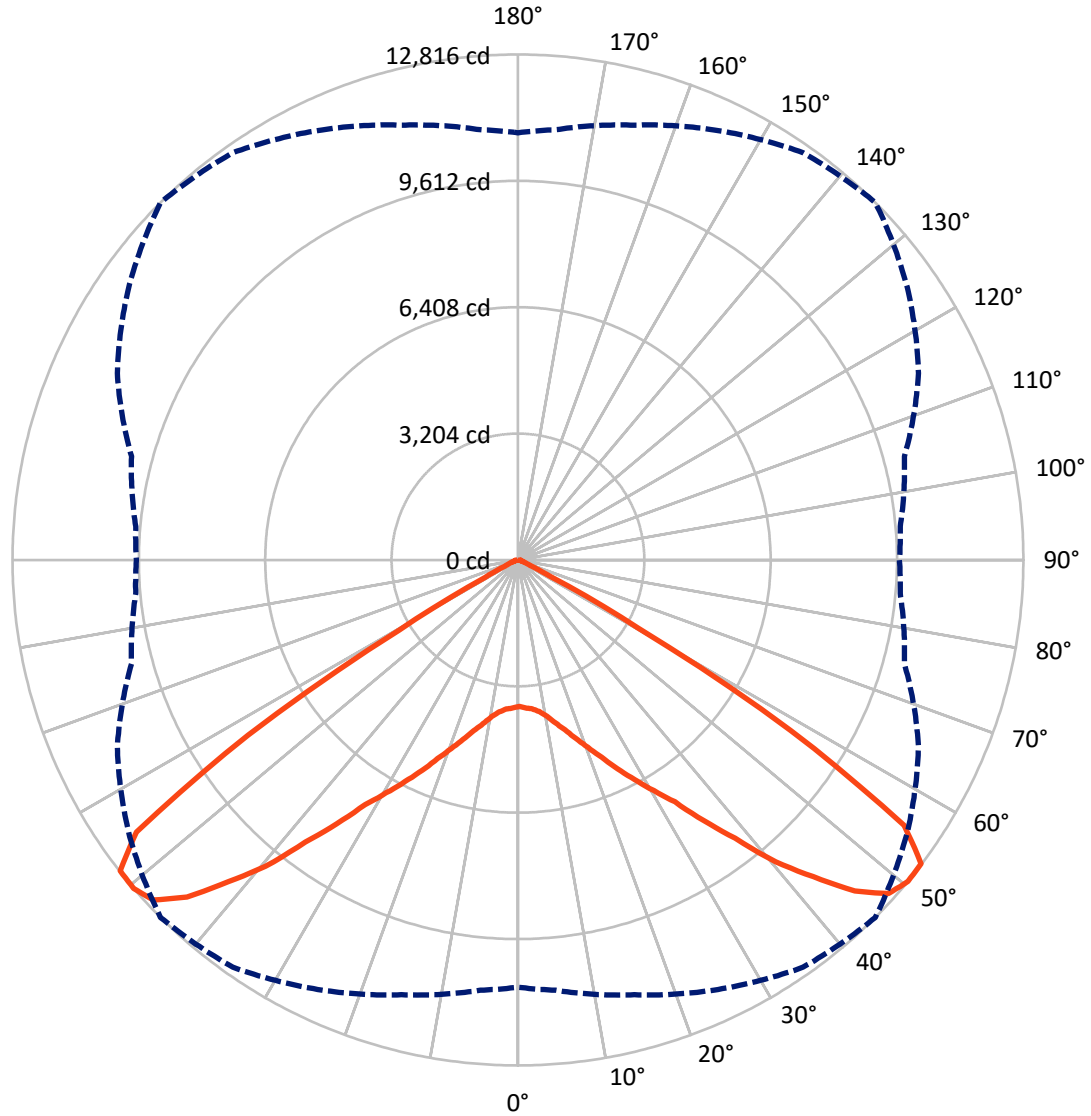
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13396.0	0.0	13396.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13396.0	0.0	13396.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26792.0	0.0	26792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	1.4
10°-20°	1273.6	4.8
20°-30°	2601.2	9.7
30°-40°	4960.5	18.5
40°-50°	8359.2	31.2
50°-60°	7972.0	29.8
60°-70°	1112.8	4.2
70°-80°	106.4	0.4
80°-90°	36.8	0.1
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°	26792.0	100.0
0°-180°	26792.0	100.0

Coefficient of Utilization



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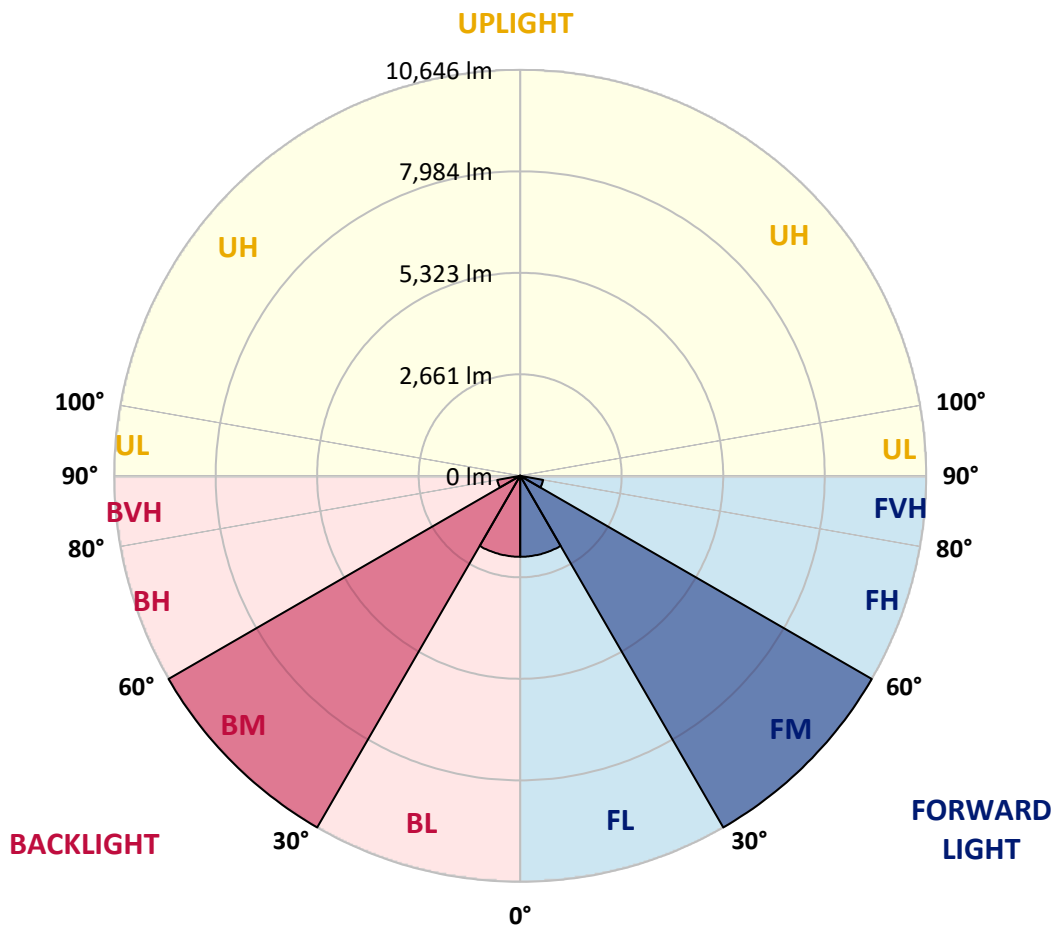
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.2	7.9			
FM (30°-60°)	10645.8	39.7			
FH (60°-80°)	609.6	2.3			G0/660
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	2122.2	7.9	B3/2500		
BM (30°-60°)	10645.8	39.7	B5		
BH (60°-80°)	609.6	2.3	B2/1000		G0/660
BVH (80°-90°)	18.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3714.4	3714.4	3714.4	3714.4	3714.4	3714.4	3714.4	3714.4	3714.4	3714.4	3714.4
2.5°	3700.9	3700.9	3696.4	3732.4	3714.4	3755.0	3750.5	3764.0	3777.5	3773.0	3809.1
5°	3669.3	3664.8	3664.8	3705.4	3746.0	3791.0	3831.6	3858.7	3903.7	3903.7	3948.8
7.5°	3700.9	3678.4	3709.9	3727.9	3804.6	3881.2	3948.8	4002.9	4106.6	4142.7	4129.1
10°	3709.9	3737.0	3759.5	3813.6	3908.3	4025.5	4084.1	4219.3	4336.5	4417.6	4435.7
12.5°	3768.5	3809.1	3872.2	4002.9	4088.6	4241.8	4323.0	4453.7	4616.0	4706.1	4769.2
15°	3881.2	3894.7	3975.9	4142.7	4327.5	4467.2	4593.4	4688.1	4845.9	4949.5	4954.1
17.5°	4025.5	4084.1	4196.7	4354.5	4548.4	4755.7	4854.9	4958.6	5017.2	5156.9	5188.5
20°	4314.0	4323.0	4431.2	4638.5	4881.9	5071.3	5143.4	5197.5	5174.9	5319.2	5346.2
22.5°	4584.4	4593.4	4728.7	5008.2	5269.6	5431.9	5463.4	5431.9	5364.3	5467.9	5477.0
25°	4859.4	4940.5	5039.7	5319.2	5643.7	5860.1	5864.6	5779.0	5639.2	5657.3	5702.3
27.5°	5287.6	5346.2	5449.9	5706.9	6063.0	6306.4	6265.8	6162.1	5981.8	5995.4	5981.8
30°	5788.0	5842.1	5927.7	6256.8	6518.3	6784.2	6842.8	6743.6	6473.2	6414.6	6482.2
32.5°	6392.0	6468.7	6626.4	6928.5	7149.3	7311.6	7352.2	7316.1	7063.7	7041.2	7086.2
35°	7126.8	7230.5	7374.7	7640.7	7821.0	8114.0	8114.0	7992.3	7762.4	7789.5	7784.9
37.5°	7902.1	8055.4	8280.8	8551.3	8794.7	8952.5	8902.9	8799.2	8569.3	8510.7	8569.3
40°	8875.8	8952.5	9236.5	9588.1	9885.6	10065.9	9854.0	9628.6	9078.7	9164.3	9322.1
42.5°	9763.9	9885.6	10101.9	10489.6	10827.7	10976.5	10724.0	10277.8	9615.1	9547.5	9664.7
45°	10521.2	10651.9	10935.9	11490.3	11846.5	11977.2	11418.2	10697.0	9939.7	9768.4	9818.0
47.5°	11026.0	11093.7	11490.3	12017.8	12342.3	12639.8	11837.4	10985.5	10092.9	9768.4	9750.3
50°	10832.2	10949.4	11413.7	12013.3	12603.8	12815.6	12049.3	11206.4	10142.5	9727.8	9673.7
52.5°	9619.6	9822.5	10340.9	11147.8	12040.3	12797.6	12342.3	11134.2	10124.5	9768.4	9849.5
55°	6694.1	6698.6	7329.7	8519.7	10097.4	11882.5	11914.1	11215.4	10241.7	10020.8	10025.3
57.5°	2691.1	2826.4	3308.7	4503.3	5959.3	8159.1	9700.8	10404.0	10255.2	10201.1	10340.9
60°	680.7	685.2	833.9	1271.2	2096.1	3498.0	5080.3	6874.4	7915.7	8271.8	8321.4
62.5°	347.1	351.6	387.7	450.8	572.5	937.6	1667.9	2646.1	3764.0	4332.0	4480.7
65°	284.0	284.0	306.5	338.1	342.6	360.6	432.7	617.6	897.0	1018.8	1032.3
67.5°	216.4	216.4	234.4	252.4	261.5	256.9	247.9	256.9	311.0	297.5	288.5
70°	135.2	139.7	148.8	166.8	175.8	180.3	184.8	193.8	220.9	229.9	220.9
72.5°	81.1	81.1	85.6	99.2	112.7	121.7	135.2	144.2	157.8	180.3	175.8
75°	36.1	36.1	45.1	58.6	72.1	85.6	99.2	112.7	121.7	135.2	139.7
77.5°	9.0	13.5	22.5	40.6	54.1	72.1	90.2	103.7	112.7	112.7	108.2
80°	4.5	4.5	18.0	31.6	58.6	76.6	99.2	108.2	121.7	112.7	99.2
82.5°	4.5	4.5	18.0	31.6	54.1	76.6	103.7	117.2	126.2	112.7	94.7
85°	0.0	4.5	13.5	27.0	45.1	54.1	45.1	31.6	18.0	18.0	13.5
87.5°	0.0	0.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)