

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: P531732

Luminaire Tested: **GALN-SA7A-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28115 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

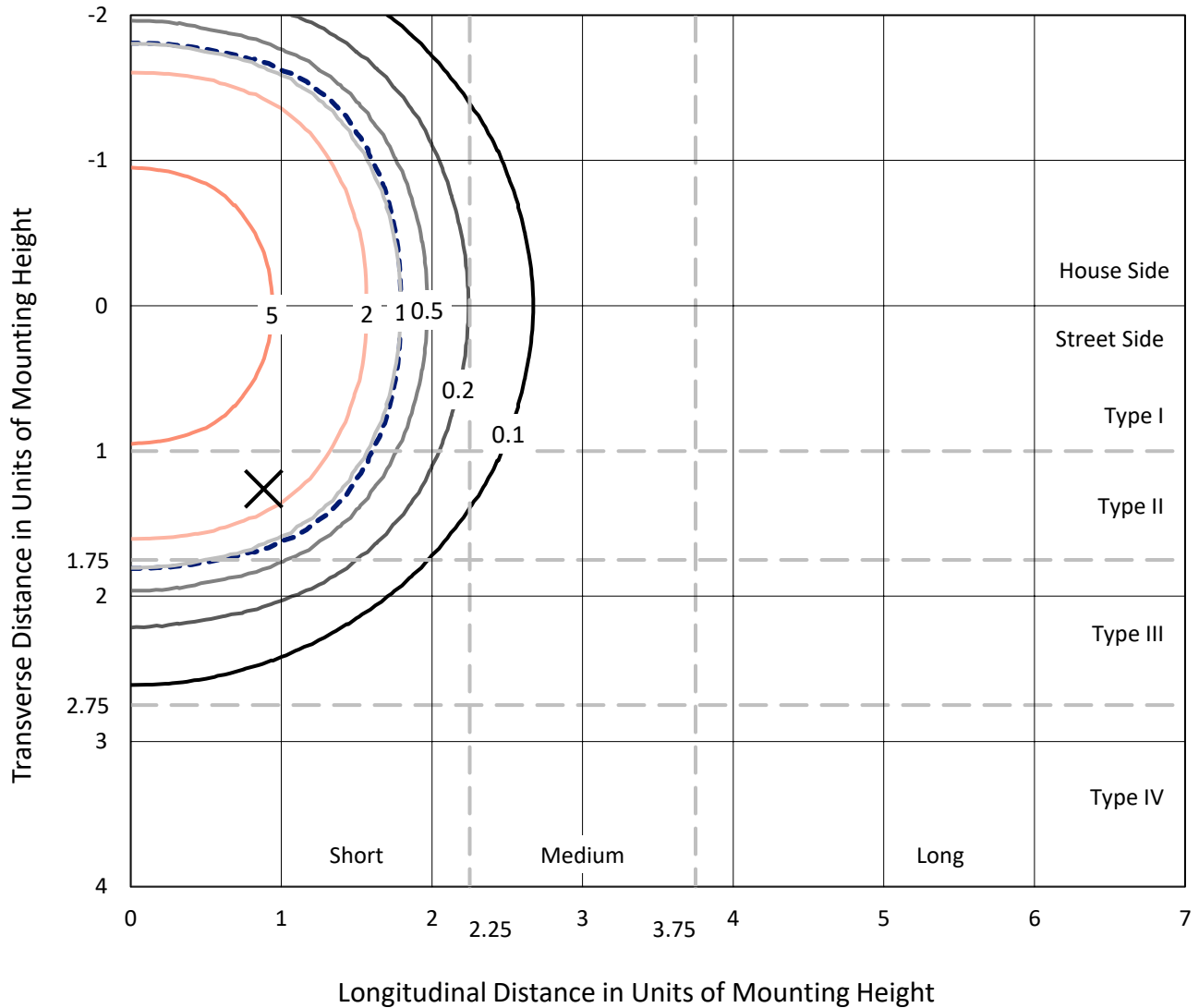
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

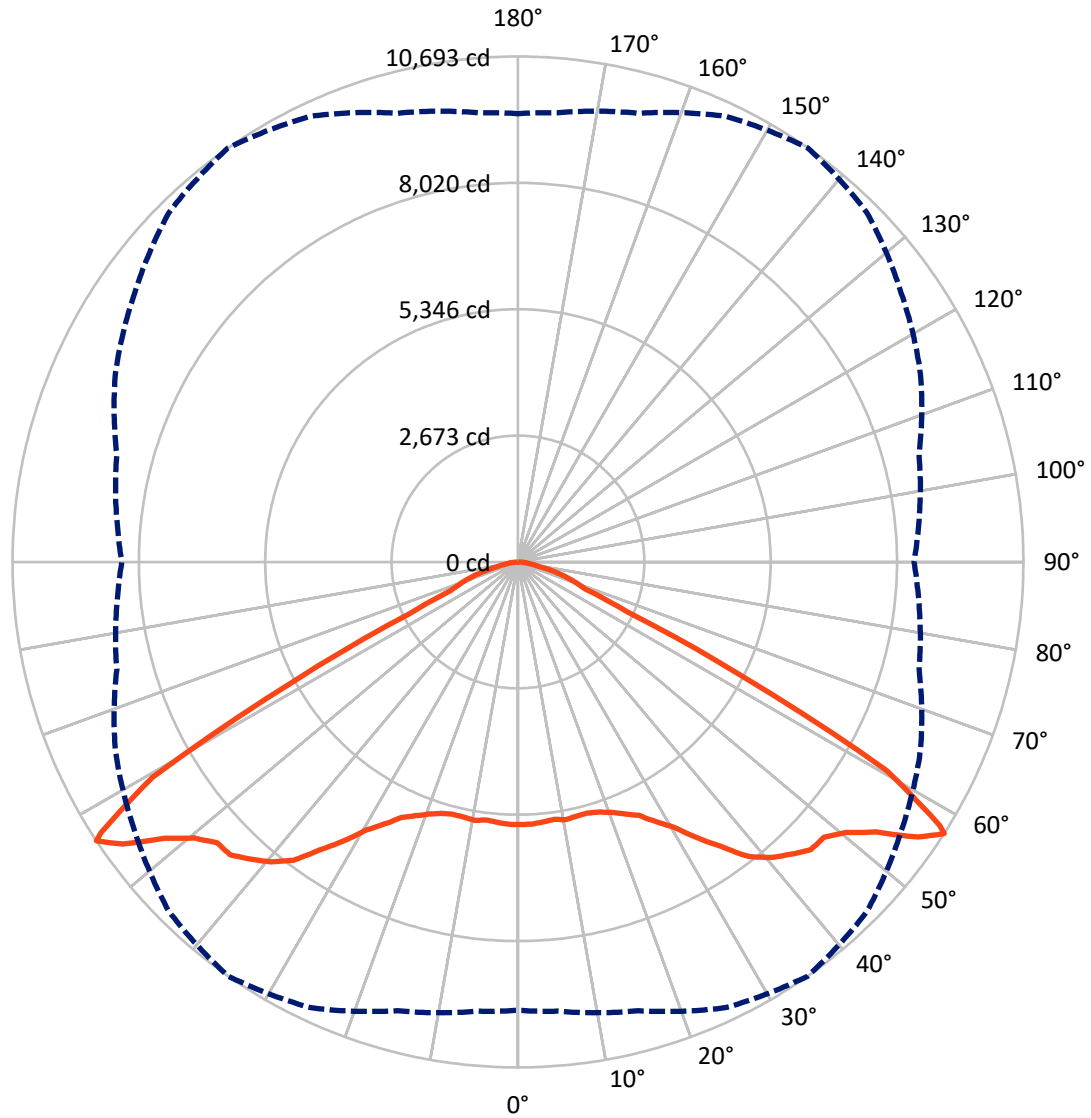
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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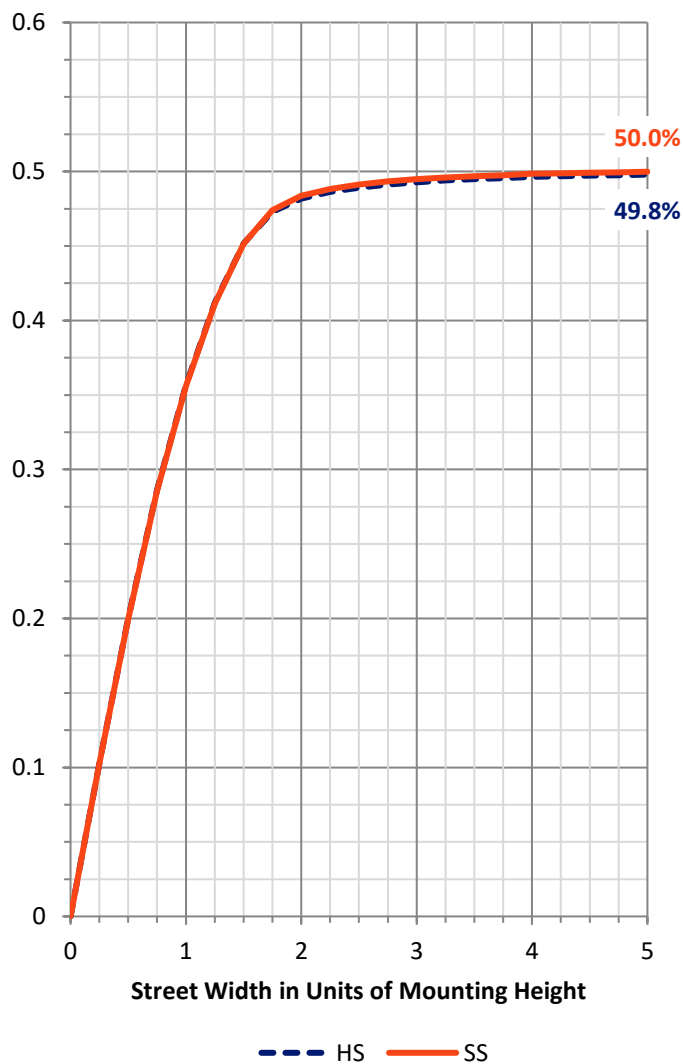
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14057.5	0.0	14057.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14057.5	0.0	14057.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28115.0	0.0	28115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.4	1.9
10°-20°	1559.0	5.5
20°-30°	2722.8	9.7
30°-40°	4461.5	15.9
40°-50°	6541.6	23.3
50°-60°	8239.6	29.3
60°-70°	3098.9	11.0
70°-80°	824.0	2.9
80°-90°	141.3	0.5
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°	28115.0	100.0
0°-180°	28115.0	100.0

Coefficient of Utilization



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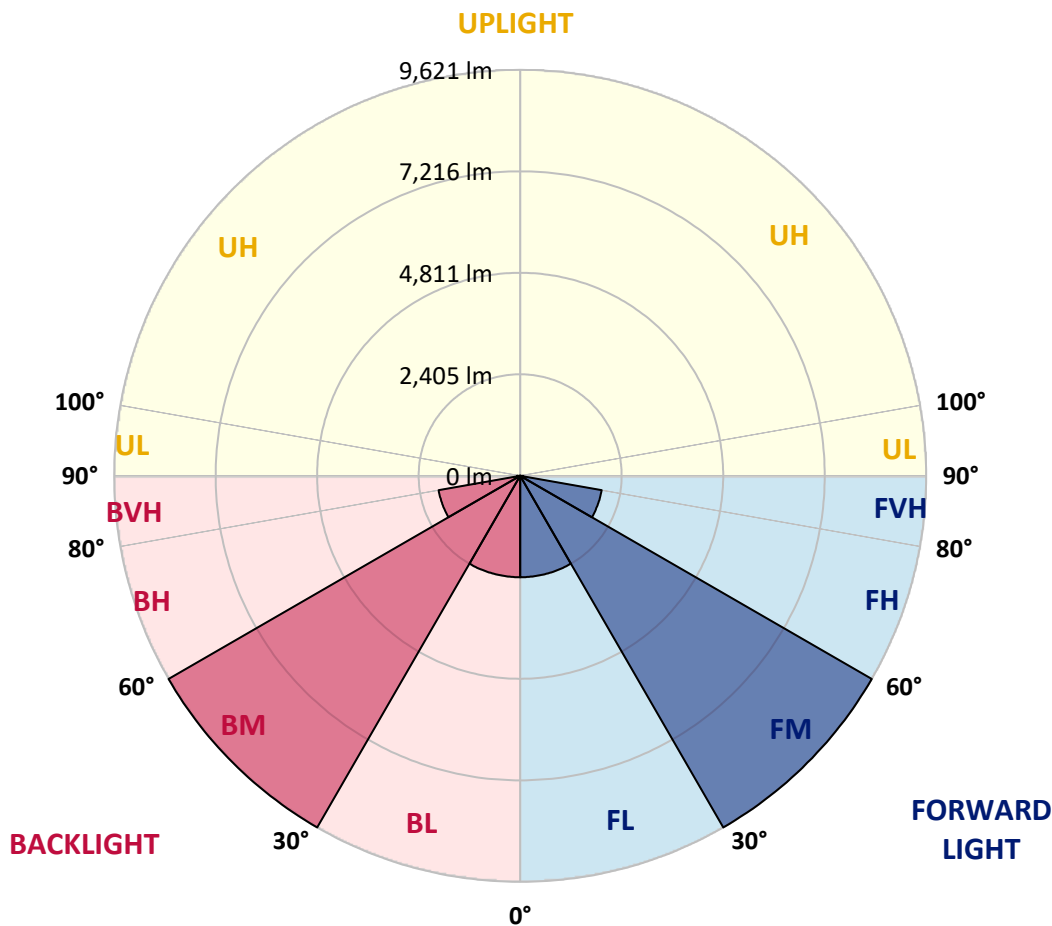
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.1	8.6			
FM (30°-60°)	9621.3	34.2			
FH (60°-80°)	1961.4	7.0			G2/5000
FVH (80°-90°)	70.6	0.3			G1/100
BL (0°-30°)	2404.1	8.6	B3/2500		
BM (30°-60°)	9621.3	34.2	B5		
BH (60°-80°)	1961.4	7.0	B3/2500		G2/5000
BVH (80°-90°)	70.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5552.5	5552.5	5552.5	5552.5	5552.5	5552.5	5552.5	5552.5	5552.5	5552.5	5552.5
2.5°	5524.8	5580.2	5556.0	5542.1	5552.5	5535.2	5507.5	5538.7	5531.7	5504.0	5493.6
5°	5510.9	5552.5	5524.8	5552.5	5524.8	5573.3	5559.4	5507.5	5569.8	5510.9	5531.7
7.5°	5500.5	5514.4	5521.3	5507.5	5497.1	5556.0	5524.8	5500.5	5465.9	5455.5	5472.8
10°	5476.3	5510.9	5459.0	5528.3	5542.1	5500.5	5500.5	5455.5	5427.8	5410.5	5469.4
12.5°	5538.7	5479.8	5472.8	5507.5	5517.9	5535.2	5486.7	5462.4	5410.5	5417.4	5407.0
15°	5465.9	5490.2	5493.6	5500.5	5510.9	5552.5	5507.5	5455.5	5434.7	5362.0	5368.9
17.5°	5493.6	5469.4	5493.6	5573.3	5559.4	5590.6	5542.1	5462.4	5414.0	5372.4	5427.8
20°	5542.1	5531.7	5542.1	5639.1	5656.4	5684.1	5642.6	5569.8	5476.3	5427.8	5455.5
22.5°	5594.1	5587.1	5594.1	5687.6	5788.0	5822.7	5781.1	5611.4	5562.9	5472.8	5441.7
25°	5687.6	5694.5	5767.3	5871.2	5937.0	6002.8	5926.6	5805.4	5649.5	5594.1	5528.3
27.5°	5895.4	5912.7	5954.3	6106.7	6221.0	6279.9	6172.5	6006.3	5909.3	5795.0	5777.7
30°	6151.7	6151.7	6224.5	6356.1	6512.0	6602.0	6470.4	6273.0	6155.2	6092.9	6054.8
32.5°	6491.2	6453.1	6480.8	6712.9	6955.4	7031.6	6854.9	6612.4	6425.4	6342.3	6314.5
35°	6782.2	6806.4	6868.8	7118.2	7388.3	7565.0	7287.9	6972.7	6782.2	6706.0	6692.1
37.5°	7159.7	7201.3	7232.5	7575.4	7901.0	7966.8	7700.1	7447.2	7215.1	7152.8	7118.2
40°	7693.1	7665.4	7675.8	7928.7	8223.1	8264.7	8001.4	7821.3	7630.8	7592.7	7592.7
42.5°	8133.1	8101.9	8136.5	8230.0	8455.2	8424.0	8278.5	8146.9	8067.2	8025.7	8067.2
45°	8399.8	8392.8	8455.2	8524.5	8683.8	8579.9	8465.6	8486.4	8410.2	8340.9	8337.4
47.5°	8690.7	8645.7	8721.9	8825.8	8704.6	8656.1	8649.2	8694.2	8669.9	8548.7	8510.6
50°	8832.7	8815.4	8936.7	9057.9	8992.1	8881.2	8905.5	8978.2	8666.5	8503.7	8410.2
52.5°	9213.8	9217.2	9449.3	9515.1	9487.4	9324.6	9376.6	9179.1	8812.0	8583.3	8593.7
55°	9813.0	9788.8	10048.5	10242.5	10273.7	10065.9	9816.5	9539.4	9078.7	8846.6	8777.3
57°	9483.9	9539.4	9826.9	10401.9	10692.8	10446.9	9903.1	9397.3	8784.3	8503.7	8379.0
57.5°	9044.0	9134.1	9632.9	10211.3	10516.2	10495.4	9795.7	9134.1	8586.8	8150.4	8160.8
60°	6626.3	6643.6	7093.9	8011.8	8964.4	8985.2	8133.1	7256.7	6647.1	6172.5	6238.3
62.5°	3495.0	3574.7	3754.8	4492.6	5317.0	5517.9	5001.8	4551.5	4025.0	3664.7	3699.4
65°	1849.7	1839.3	1925.9	2133.7	2539.0	2642.9	2573.6	2216.8	2033.3	1974.4	1977.8
67.5°	1503.3	1520.6	1510.2	1520.6	1548.3	1593.4	1583.0	1596.8	1607.2	1624.5	1621.1
70°	1274.7	1274.7	1281.6	1285.1	1285.1	1305.9	1330.1	1375.1	1378.6	1395.9	1402.8
72.5°	1004.5	997.6	1008.0	1032.2	1035.7	1053.0	1087.6	1115.4	1125.7	1125.7	1105.0
75°	682.4	689.3	703.2	723.9	744.7	775.9	803.6	820.9	827.9	817.5	807.1
77.5°	384.5	391.4	401.8	433.0	457.2	484.9	516.1	533.4	550.7	554.2	533.4
80°	228.6	228.6	245.9	270.2	297.9	325.6	353.3	374.1	381.0	381.0	370.6
82.5°	138.6	142.0	155.9	180.1	204.4	221.7	245.9	263.3	277.1	273.6	266.7
85°	72.7	72.7	86.6	107.4	124.7	142.0	142.0	131.6	124.7	107.4	100.5
87.5°	24.2	20.8	27.7	27.7	24.2	27.7	27.7	31.2	31.2	31.2	31.2
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)