

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: P532174

Luminaire Tested: **GALN-SA7C-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532174
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-SA7C-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA 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: 40264 lumens
Efficiency: N/A
Efficacy: 106.8 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

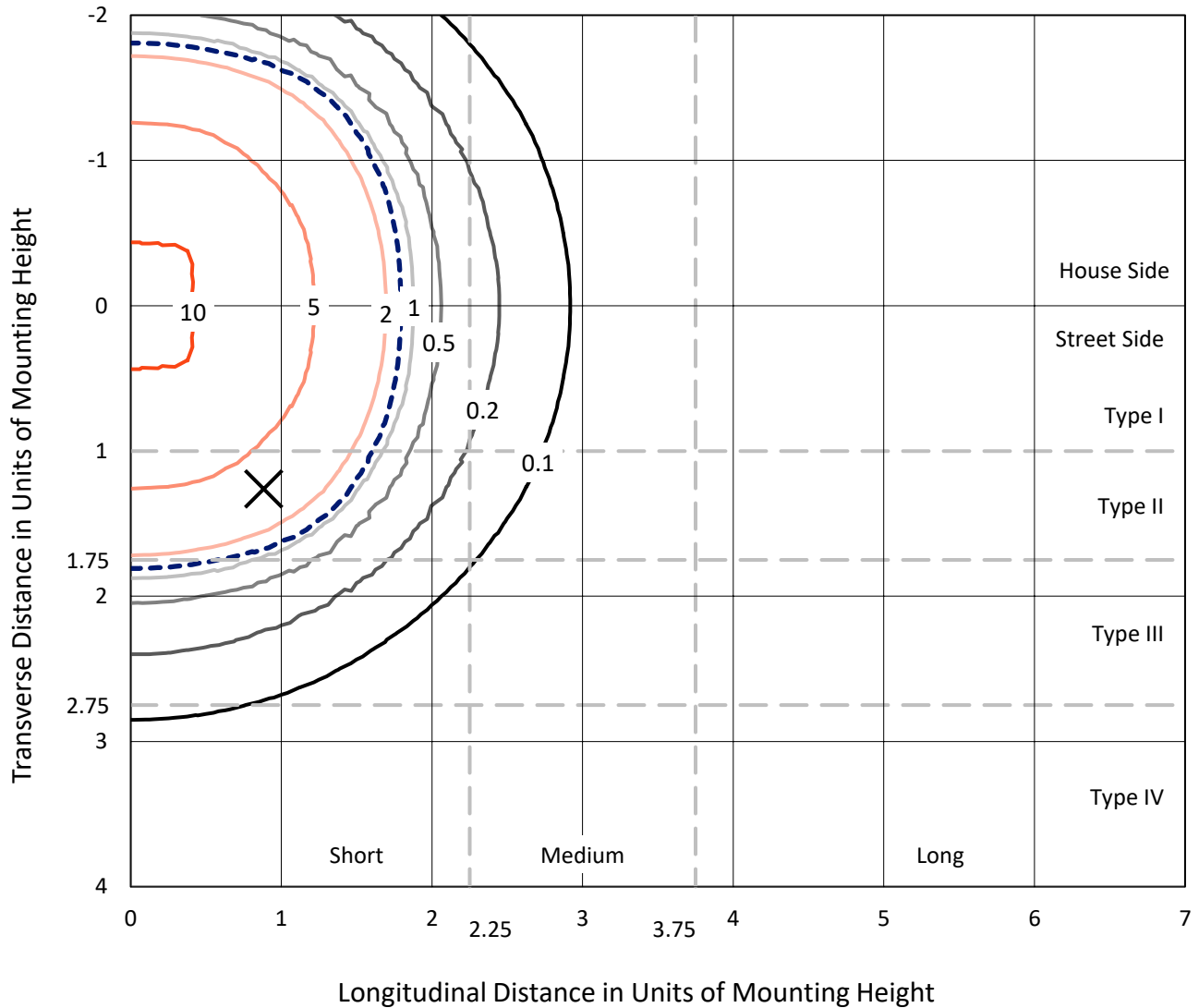
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

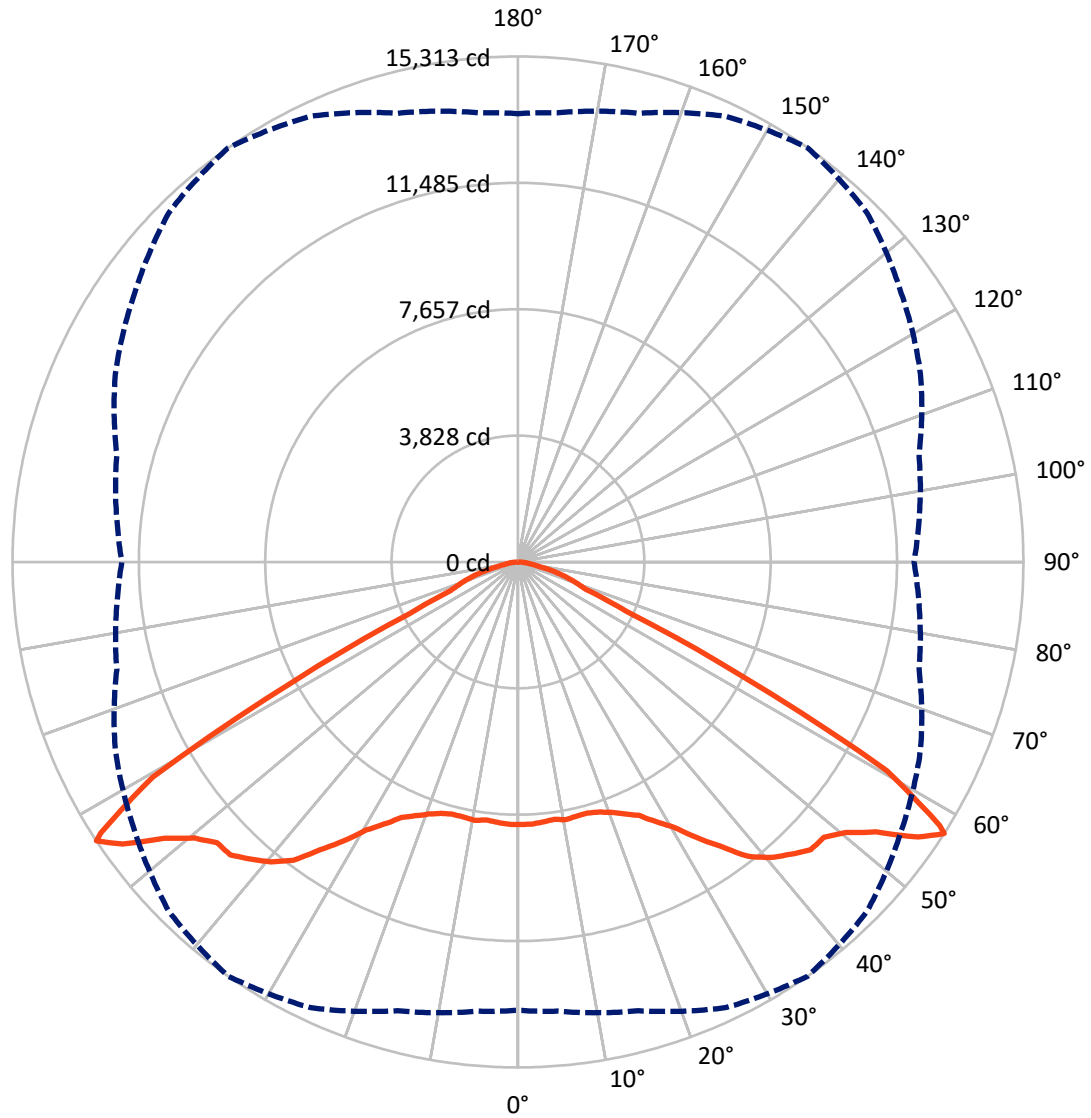
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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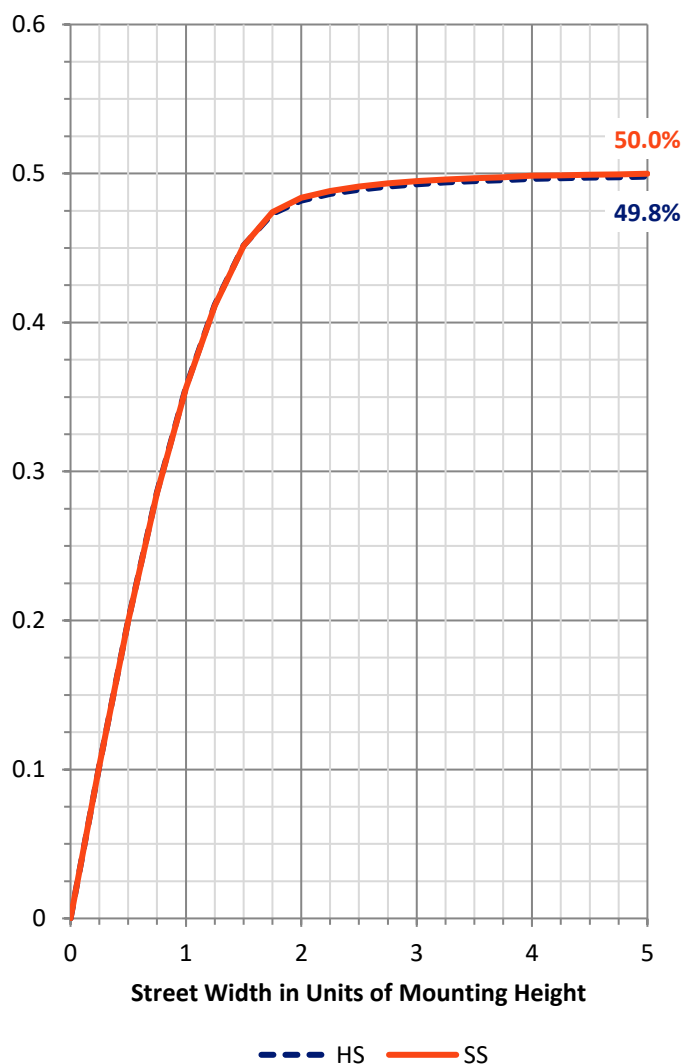
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20132.0	0.0	20132.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20132.0	0.0	20132.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40264.0	0.0	40264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.9	1.9
10°-20°	2232.7	5.5
20°-30°	3899.4	9.7
30°-40°	6389.3	15.9
40°-50°	9368.3	23.3
50°-60°	11800.1	29.3
60°-70°	4437.9	11.0
70°-80°	1180.0	2.9
80°-90°	202.3	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°	40264.0	100.0
0°-180°	40264.0	100.0

Coefficient of Utilization



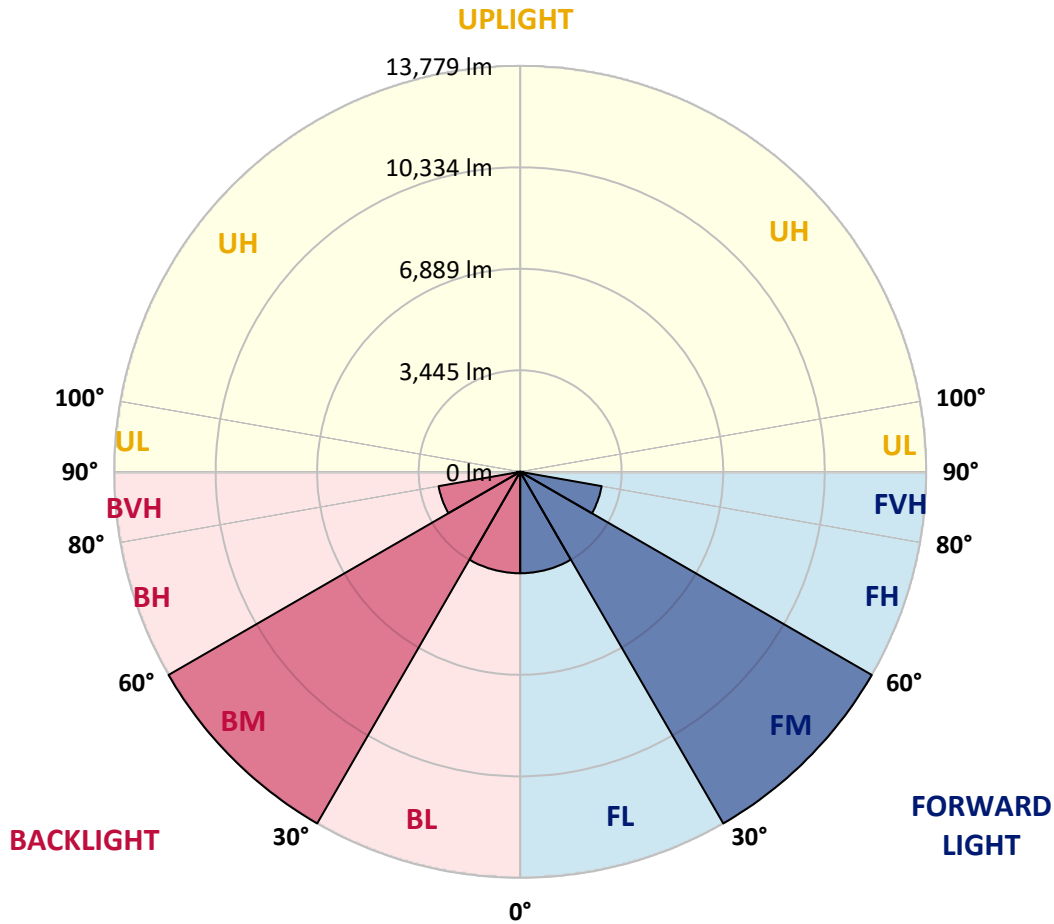
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3443.0	8.6			
FM (30°-60°)	13778.9	34.2			
FH (60°-80°)	2809.0	7.0			G2/5000
FVH (80°-90°)	101.2	0.3			G2/225
BL (0°-30°)	3443.0	8.6	B4/5000		
BM (30°-60°)	13778.9	34.2	B5		
BH (60°-80°)	2809.0	7.0	B4/5000		G2/5000
BVH (80°-90°)	101.2	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7951.8	7951.8	7951.8	7951.8	7951.8	7951.8	7951.8	7951.8	7951.8	7951.8	7951.8
2.5°	7912.2	7991.5	7956.8	7937.0	7951.8	7927.0	7887.4	7932.0	7922.1	7882.4	7867.5
5°	7892.3	7951.8	7912.2	7951.8	7912.2	7981.6	7961.8	7887.4	7976.6	7892.3	7922.1
7.5°	7877.4	7897.3	7907.2	7887.4	7872.5	7956.8	7912.2	7877.4	7827.8	7812.9	7837.7
10°	7842.7	7892.3	7817.9	7917.1	7937.0	7877.4	7877.4	7812.9	7773.3	7748.5	7832.8
12.5°	7932.0	7847.7	7837.7	7887.4	7902.2	7927.0	7857.6	7822.9	7748.5	7758.4	7743.5
15°	7827.8	7862.6	7867.5	7877.4	7892.3	7951.8	7887.4	7812.9	7783.2	7679.0	7688.9
17.5°	7867.5	7832.8	7867.5	7981.6	7961.8	8006.4	7937.0	7822.9	7753.4	7693.9	7773.3
20°	7937.0	7922.1	7937.0	8075.9	8100.7	8140.3	8080.8	7976.6	7842.7	7773.3	7812.9
22.5°	8011.4	8001.4	8011.4	8145.3	8289.2	8338.8	8279.2	8036.2	7966.7	7837.7	7793.1
25°	8145.3	8155.2	8259.4	8408.2	8502.5	8596.7	8487.6	8314.0	8090.7	8011.4	7917.1
27.5°	8442.9	8467.7	8527.3	8745.5	8909.2	8993.6	8839.8	8601.7	8462.8	8299.1	8274.3
30°	8810.0	8810.0	8914.2	9102.7	9325.9	9454.9	9266.4	8983.6	8815.0	8725.7	8671.1
32.5°	9296.2	9241.6	9281.3	9613.6	9960.9	10070.0	9817.0	9469.8	9201.9	9082.9	9043.2
35°	9712.9	9747.6	9836.9	10194.0	10581.0	10834.0	10437.1	9985.7	9712.9	9603.7	9583.9
37.5°	10253.6	10313.1	10357.7	10848.8	11315.1	11409.4	11027.4	10665.3	10332.9	10243.6	10194.0
40°	11017.5	10977.8	10992.7	11354.8	11776.5	11836.0	11459.0	11201.0	10928.2	10873.6	10873.6
42.5°	11647.5	11602.8	11652.5	11786.4	12108.8	12064.2	11855.8	11667.3	11553.2	11493.7	11553.2
45°	12029.5	12019.5	12108.8	12208.0	12436.2	12287.4	12123.7	12153.5	12044.3	11945.1	11940.2
47.5°	12446.1	12381.7	12490.8	12639.6	12466.0	12396.5	12386.6	12451.1	12416.4	12242.8	12188.2
50°	12649.5	12624.7	12798.4	12972.0	12877.7	12719.0	12753.7	12857.9	12411.4	12178.3	12044.3
52.5°	13195.2	13200.2	13532.5	13626.8	13587.1	13353.9	13428.3	13145.6	12619.8	12292.4	12307.3
55°	14053.4	14018.7	14390.7	14668.5	14713.1	14415.5	14058.3	13661.5	13001.7	12669.4	12570.2
57°	13582.1	13661.5	14073.2	14896.7	15313.4	14961.2	14182.4	13458.1	12580.1	12178.3	11999.7
57.5°	12952.1	13081.1	13795.4	14623.9	15060.4	15030.6	14028.6	13081.1	12297.3	11672.3	11687.2
60°	9489.6	9514.4	10159.3	11473.9	12838.0	12867.8	11647.5	10392.5	9519.4	8839.8	8934.0
62.5°	5005.2	5119.3	5377.3	6433.9	7614.5	7902.2	7163.1	6518.2	5764.2	5248.3	5297.9
65°	2649.0	2634.1	2758.1	3055.7	3636.1	3784.9	3685.7	3174.8	2911.9	2827.5	2832.5
67.5°	2152.9	2177.7	2162.8	2177.7	2217.4	2281.9	2267.0	2286.8	2301.7	2326.5	2321.6
70°	1825.5	1825.5	1835.4	1840.4	1840.4	1870.1	1904.9	1969.4	1974.3	1999.1	2009.0
72.5°	1438.6	1428.7	1443.5	1478.3	1483.2	1508.0	1557.6	1597.3	1612.2	1612.2	1582.4
75°	977.2	987.2	1007.0	1036.8	1066.5	1111.2	1150.9	1175.7	1185.6	1170.7	1155.8
77.5°	550.6	560.5	575.4	620.1	654.8	694.5	739.1	763.9	788.7	793.7	763.9
80°	327.4	327.4	352.2	386.9	426.6	466.3	506.0	535.7	545.7	545.7	530.8
82.5°	198.4	203.4	223.2	258.0	292.7	317.5	352.2	377.0	396.8	391.9	382.0
85°	104.2	104.2	124.0	153.8	178.6	203.4	203.4	188.5	178.6	153.8	143.9
87.5°	34.7	29.8	39.7	39.7	34.7	39.7	39.7	44.6	44.6	44.6	44.6
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)