

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: P531888

Luminaire Tested: **GALN-SA7B-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531888
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-SA7B-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 29257 lumens
Efficiency: N/A
Efficacy: 102.3 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

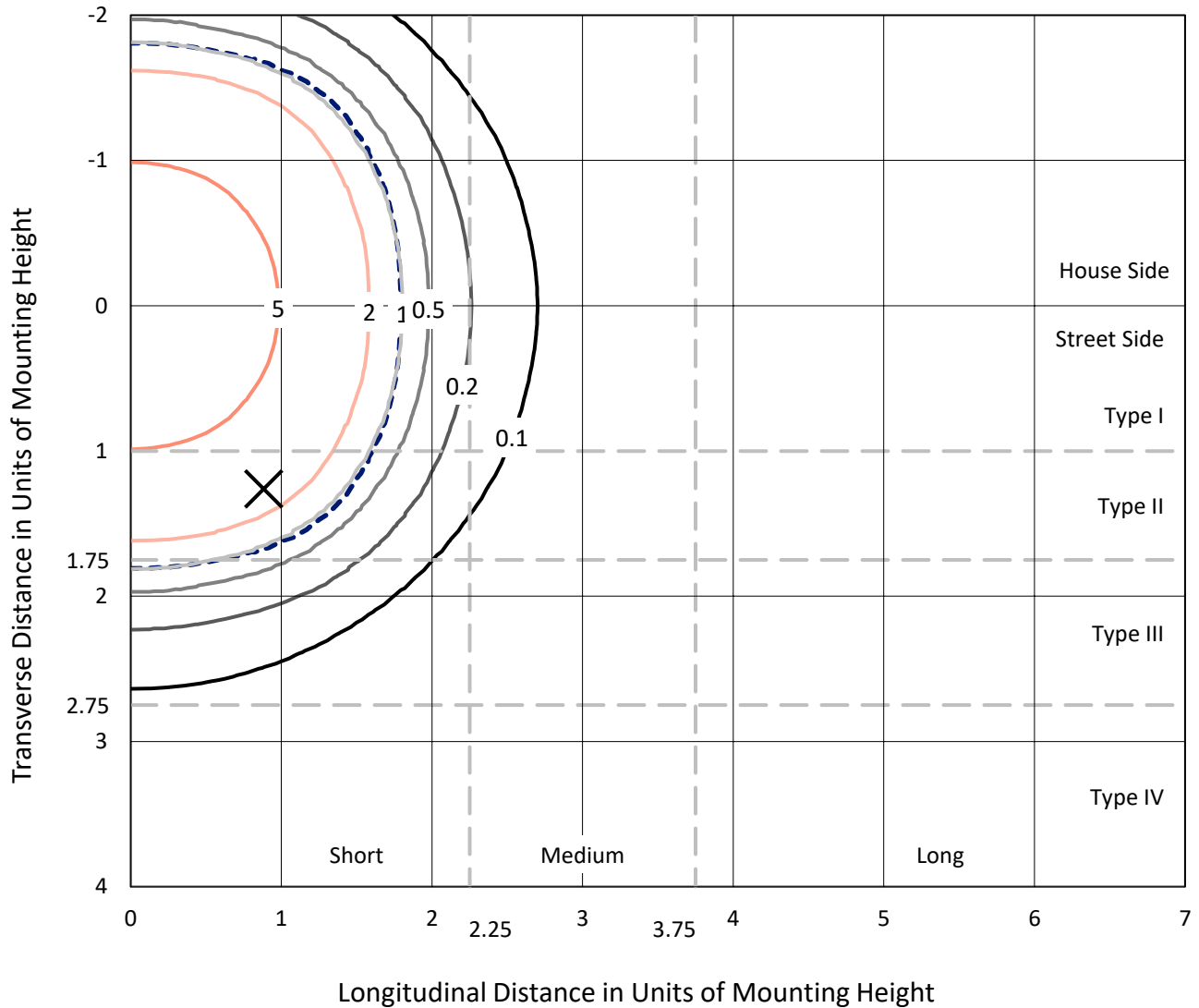
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

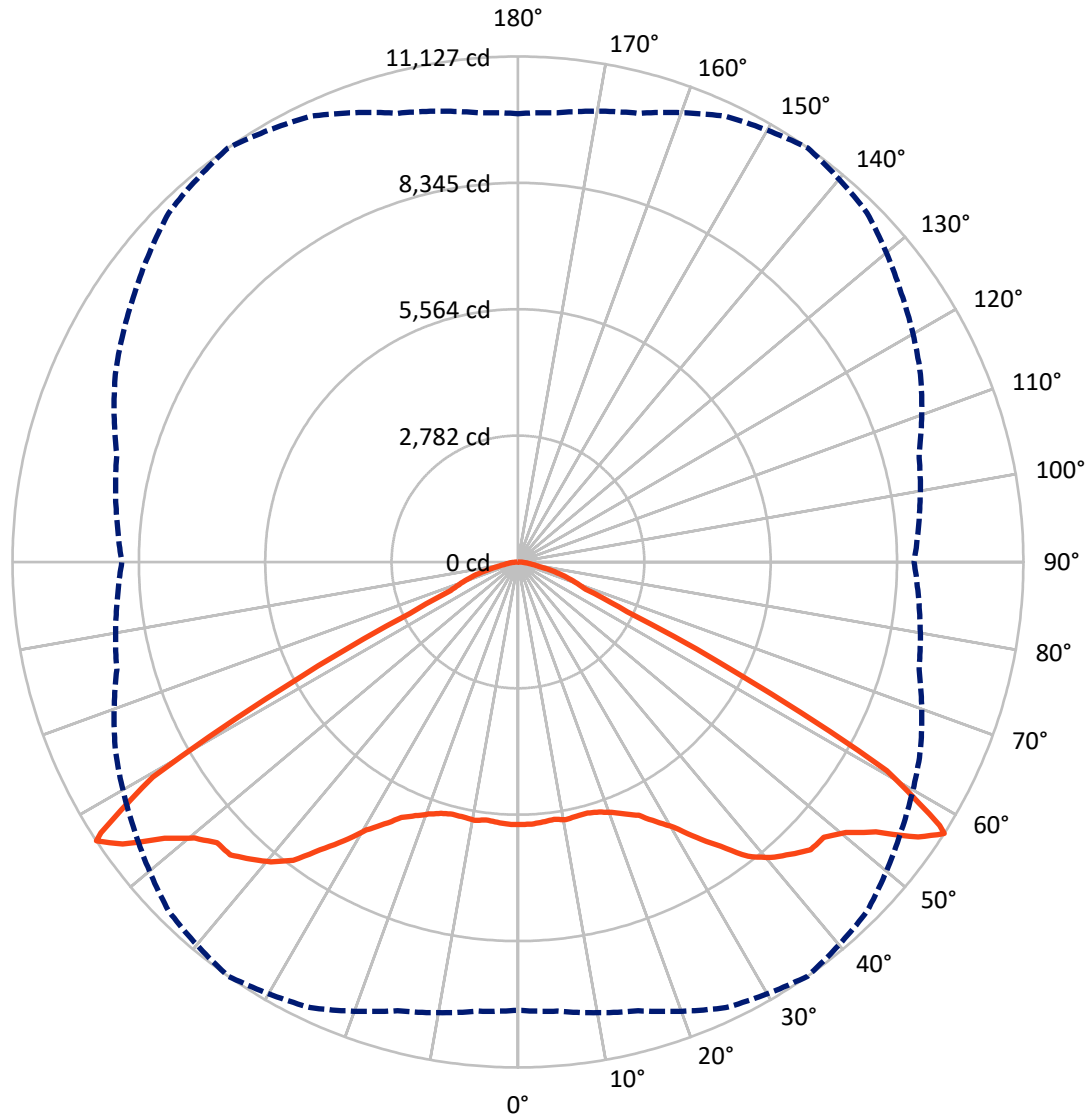
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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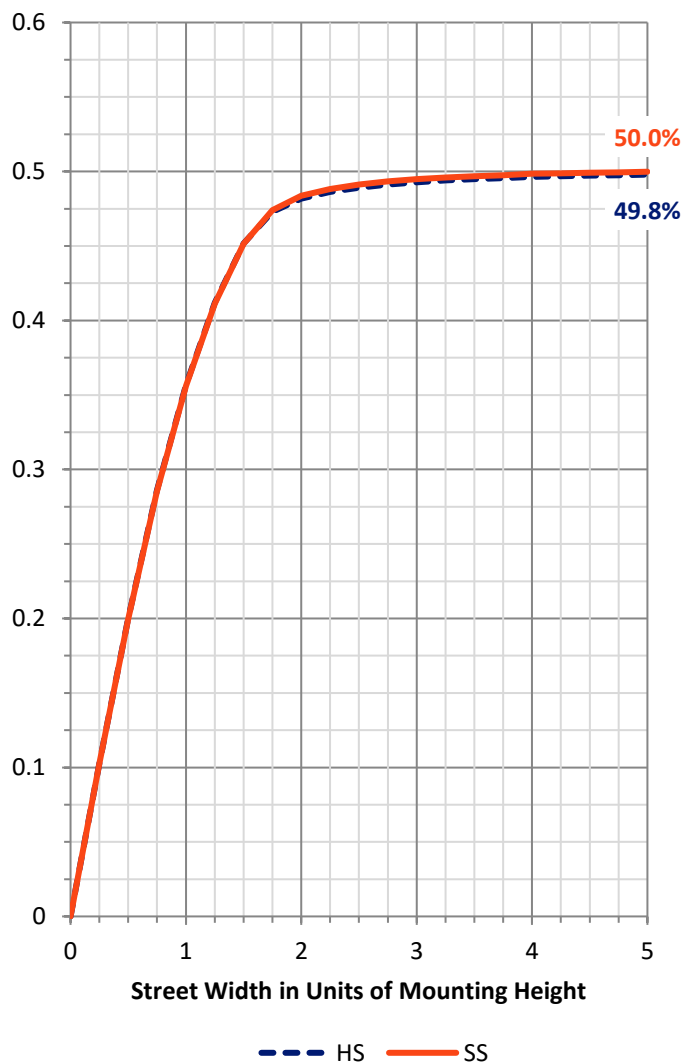
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14628.5	0.0	14628.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14628.5	0.0	14628.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29257.0	0.0	29257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.8	1.9
10°-20°	1622.4	5.5
20°-30°	2833.4	9.7
30°-40°	4642.7	15.9
40°-50°	6807.3	23.3
50°-60°	8574.3	29.3
60°-70°	3224.7	11.0
70°-80°	857.4	2.9
80°-90°	147.0	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°	29257.0	100.0
0°-180°	29257.0	100.0

Coefficient of Utilization



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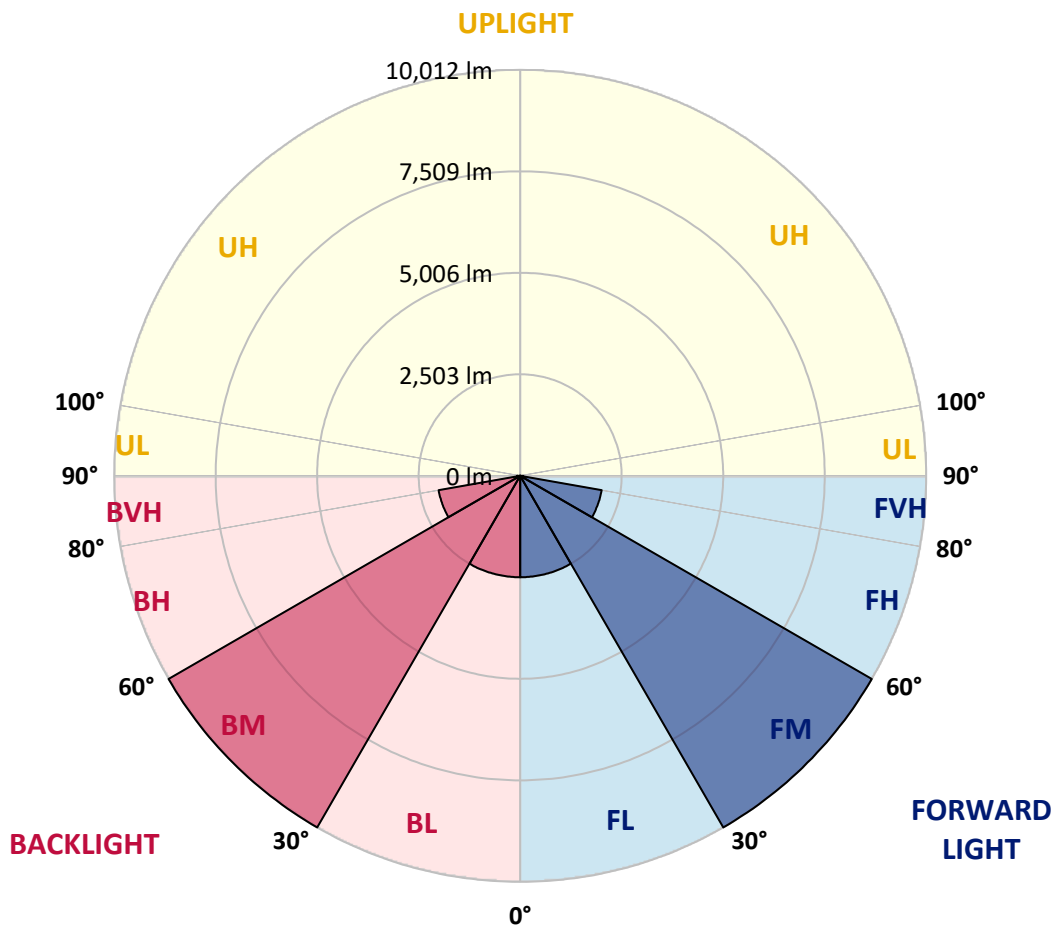
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.8	8.6			
FM (30°-60°)	10012.1	34.2			
FH (60°-80°)	2041.1	7.0			G2/5000
FVH (80°-90°)	73.5	0.3			G1/100
BL (0°-30°)	2501.8	8.6	B4/5000		
BM (30°-60°)	10012.1	34.2	B5		
BH (60°-80°)	2041.1	7.0	B3/2500		G2/5000
BVH (80°-90°)	73.5	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°	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0	5778.0
2.5°	5749.2	5806.9	5781.6	5767.2	5778.0	5760.0	5731.2	5763.6	5756.4	5727.6	5716.8
5°	5734.8	5778.0	5749.2	5778.0	5749.2	5799.7	5785.3	5731.2	5796.1	5734.8	5756.4
7.5°	5724.0	5738.4	5745.6	5731.2	5720.4	5781.6	5749.2	5724.0	5687.9	5677.1	5695.1
10°	5698.7	5734.8	5680.7	5752.8	5767.2	5724.0	5724.0	5677.1	5648.3	5630.3	5691.5
12.5°	5763.6	5702.3	5695.1	5731.2	5742.0	5760.0	5709.6	5684.3	5630.3	5637.5	5626.7
15°	5687.9	5713.2	5716.8	5724.0	5734.8	5778.0	5731.2	5677.1	5655.5	5579.8	5587.0
17.5°	5716.8	5691.5	5716.8	5799.7	5785.3	5817.7	5767.2	5684.3	5633.9	5590.6	5648.3
20°	5767.2	5756.4	5767.2	5868.2	5886.2	5915.0	5871.8	5796.1	5698.7	5648.3	5677.1
22.5°	5821.3	5814.1	5821.3	5918.6	6023.1	6059.2	6015.9	5839.3	5788.9	5695.1	5662.7
25°	5918.6	5925.8	6001.5	6109.7	6178.1	6246.6	6167.3	6041.2	5879.0	5821.3	5752.8
27.5°	6134.9	6152.9	6196.2	6354.8	6473.7	6535.0	6423.3	6250.2	6149.3	6030.4	6012.3
30°	6401.6	6401.6	6477.3	6614.3	6776.5	6870.2	6733.2	6527.8	6405.2	6340.3	6300.7
32.5°	6754.9	6715.2	6744.1	6985.6	7237.9	7317.2	7133.3	6881.0	6686.4	6599.9	6571.0
35°	7057.6	7082.9	7147.8	7407.3	7688.4	7872.3	7583.9	7255.9	7057.6	6978.3	6963.9
37.5°	7450.5	7493.8	7526.2	7883.1	8221.9	8290.4	8012.8	7749.7	7508.2	7443.3	7407.3
40°	8005.6	7976.8	7987.6	8250.7	8557.1	8600.4	8326.4	8139.0	7940.8	7901.1	7901.1
42.5°	8463.4	8431.0	8467.0	8564.3	8798.6	8766.2	8614.8	8477.8	8394.9	8351.7	8394.9
45°	8741.0	8733.7	8798.6	8870.7	9036.5	8928.4	8809.4	8831.1	8751.8	8679.7	8676.1
47.5°	9043.7	8996.9	9076.2	9184.3	9058.2	9007.7	9000.5	9047.3	9022.1	8895.9	8856.3
50°	9191.5	9173.5	9299.7	9425.8	9357.3	9242.0	9267.2	9342.9	9018.5	8849.1	8751.8
52.5°	9588.0	9591.6	9833.1	9901.6	9872.8	9703.4	9757.4	9552.0	9169.9	8932.0	8942.8
55°	10211.6	10186.4	10456.7	10658.6	10691.0	10474.7	10215.2	9926.8	9447.4	9205.9	9133.8
57°	9869.2	9926.8	10226.0	10824.4	11127.1	10871.2	10305.3	9779.1	9141.1	8849.1	8719.3
57.5°	9411.4	9505.1	10024.2	10626.1	10943.3	10921.7	10193.6	9505.1	8935.6	8481.4	8492.2
60°	6895.4	6913.5	7382.1	8337.2	9328.5	9350.1	8463.4	7551.5	6917.1	6423.3	6491.7
62.5°	3637.0	3719.9	3907.3	4675.1	5532.9	5742.0	5204.9	4736.3	4188.4	3813.6	3849.6
65°	1924.8	1914.0	2004.1	2220.4	2642.1	2750.2	2678.2	2306.9	2115.9	2054.6	2058.2
67.5°	1564.4	1582.4	1571.6	1582.4	1611.2	1658.1	1647.3	1661.7	1672.5	1690.5	1686.9
70°	1326.5	1326.5	1333.7	1337.3	1337.3	1358.9	1384.1	1431.0	1434.6	1452.6	1459.8
72.5°	1045.3	1038.1	1048.9	1074.1	1077.8	1095.8	1131.8	1160.7	1171.5	1171.5	1149.8
75°	710.1	717.3	731.7	753.3	775.0	807.4	836.2	854.3	861.5	850.7	839.9
77.5°	400.1	407.3	418.1	450.6	475.8	504.6	537.1	555.1	573.1	576.7	555.1
80°	237.9	237.9	255.9	281.2	310.0	338.8	367.7	389.3	396.5	396.5	385.7
82.5°	144.2	147.8	162.2	187.4	212.7	230.7	255.9	273.9	288.4	284.8	277.5
85°	75.7	75.7	90.1	111.7	129.8	147.8	147.8	137.0	129.8	111.7	104.5
87.5°	25.2	21.6	28.8	28.8	25.2	28.8	28.8	32.4	32.4	32.4	32.4
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)