

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: P533526

Luminaire Tested: **GALN-SA9A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533526
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-SA9A-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 30603 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

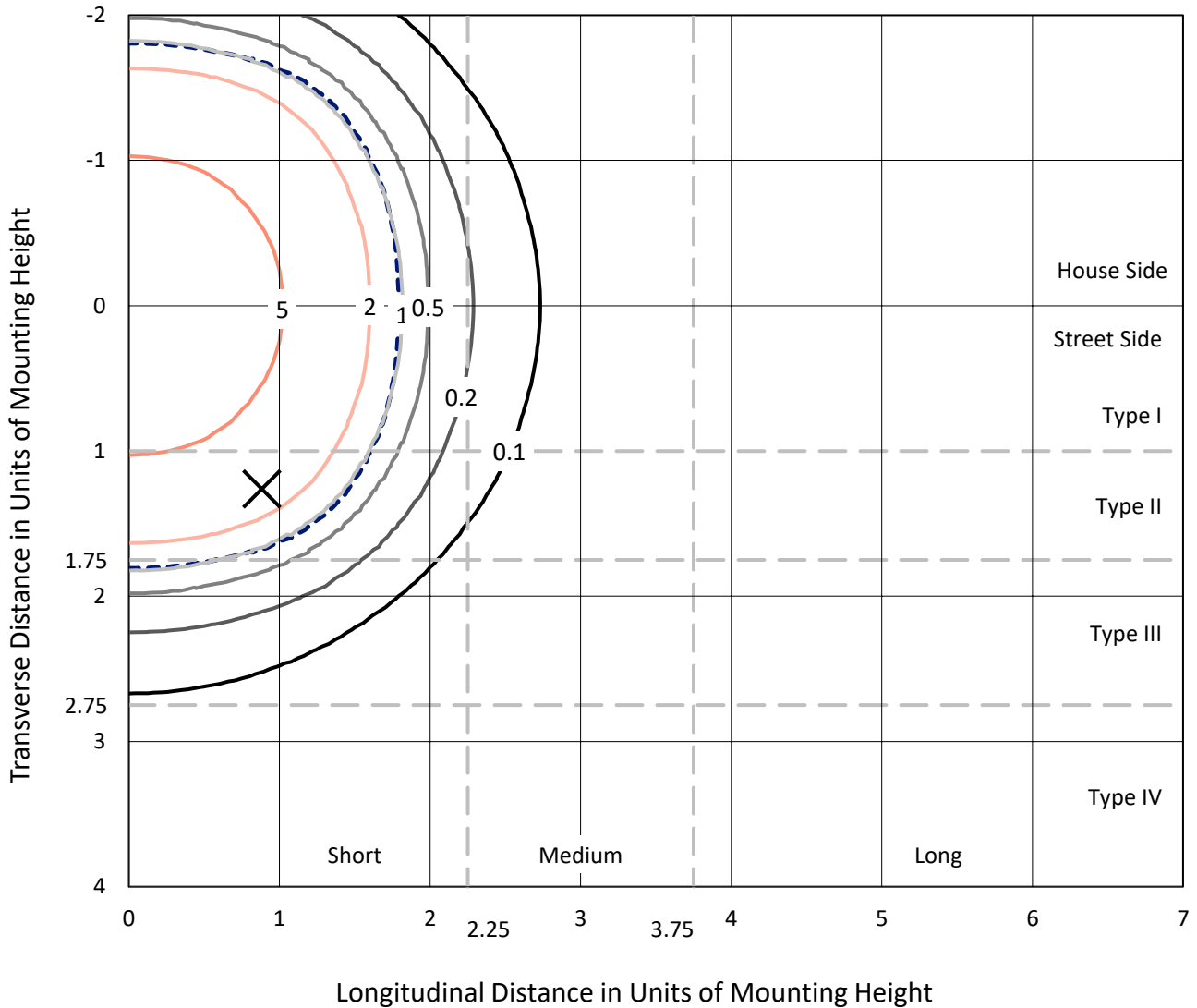
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

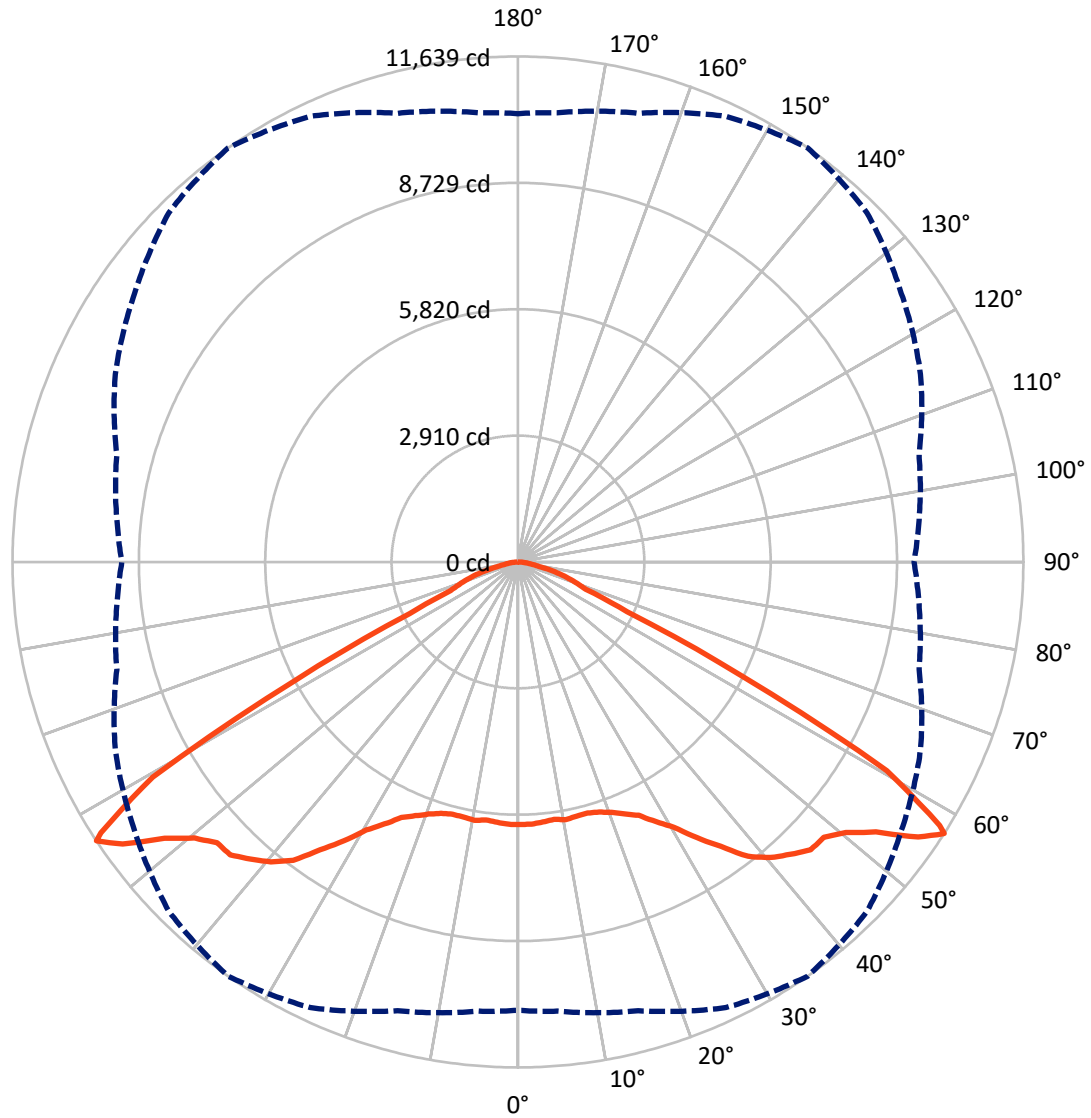
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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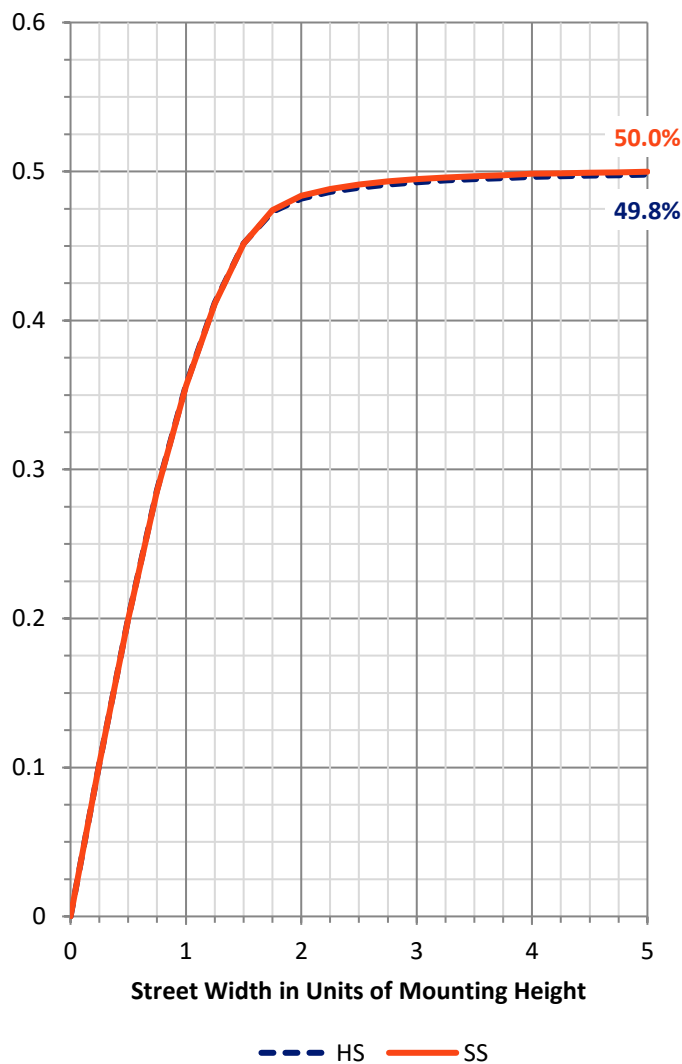
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15301.5	0.0	15301.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15301.5	0.0	15301.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30603.0	0.0	30603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.0	1.9
10°-20°	1697.0	5.5
20°-30°	2963.8	9.7
30°-40°	4856.3	15.9
40°-50°	7120.5	23.3
50°-60°	8968.8	29.3
60°-70°	3373.1	11.0
70°-80°	896.9	2.9
80°-90°	153.8	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°	30603.0	100.0
0°-180°	30603.0	100.0

Coefficient of Utilization



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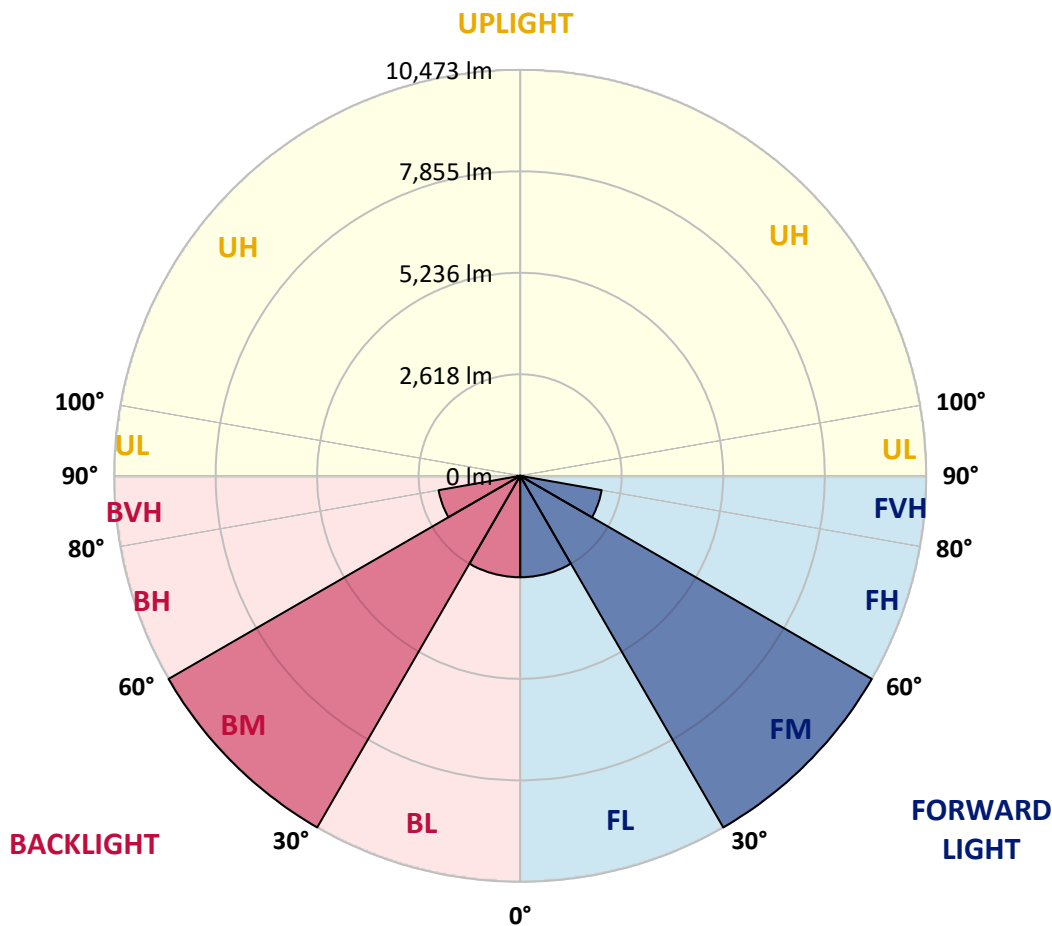
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.9	8.6			
FM (30°-60°)	10472.7	34.2			
FH (60°-80°)	2135.0	7.0			G2/5000
FVH (80°-90°)	76.9	0.3			G1/100
BL (0°-30°)	2616.9	8.6	B4/5000		
BM (30°-60°)	10472.7	34.2	B5		
BH (60°-80°)	2135.0	7.0	B3/2500		G2/5000
BVH (80°-90°)	76.9	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°	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9
2.5°	6013.7	6074.0	6047.6	6032.6	6043.9	6025.0	5994.9	6028.8	6021.2	5991.1	5979.8
5°	5998.6	6043.9	6013.7	6043.9	6013.7	6066.5	6051.4	5994.9	6062.7	5998.6	6021.2
7.5°	5987.3	6002.4	6009.9	5994.9	5983.5	6047.6	6013.7	5987.3	5949.6	5938.3	5957.1
10°	5960.9	5998.6	5942.1	6017.5	6032.6	5987.3	5987.3	5938.3	5908.1	5889.3	5953.4
12.5°	6028.8	5964.7	5957.1	5994.9	6006.2	6025.0	5972.2	5945.8	5889.3	5896.8	5885.5
15°	5949.6	5976.0	5979.8	5987.3	5998.6	6043.9	5994.9	5938.3	5915.7	5836.5	5844.0
17.5°	5979.8	5953.4	5979.8	6066.5	6051.4	6085.3	6032.6	5945.8	5893.1	5847.8	5908.1
20°	6032.6	6021.2	6032.6	6138.1	6157.0	6187.1	6141.9	6062.7	5960.9	5908.1	5938.3
22.5°	6089.1	6081.6	6089.1	6190.9	6300.3	6338.0	6292.7	6108.0	6055.2	5957.1	5923.2
25°	6190.9	6198.5	6277.6	6390.7	6462.4	6534.0	6451.1	6319.1	6149.4	6089.1	6017.5
27.5°	6417.1	6436.0	6481.2	6647.1	6771.5	6835.6	6718.8	6537.8	6432.2	6307.8	6288.9
30°	6696.1	6696.1	6775.3	6918.6	7088.3	7186.3	7043.0	6828.1	6699.9	6632.0	6590.6
32.5°	7065.6	7024.2	7054.3	7306.9	7570.9	7653.8	7461.5	7197.6	6994.0	6903.5	6873.3
35°	7382.3	7408.7	7476.6	7748.1	8042.2	8234.4	7932.8	7589.7	7382.3	7299.4	7284.3
37.5°	7793.3	7838.6	7872.5	8245.7	8600.2	8671.8	8381.5	8106.2	7853.6	7785.8	7748.1
40°	8373.9	8343.8	8355.1	8630.3	8950.8	8996.0	8709.5	8513.4	8306.1	8264.6	8264.6
42.5°	8852.8	8818.8	8856.5	8958.3	9203.4	9169.5	9011.1	8867.9	8781.1	8735.9	8781.1
45°	9143.1	9135.6	9203.4	9278.8	9452.3	9339.2	9214.7	9237.4	9154.4	9079.0	9075.2
47.5°	9459.8	9410.8	9493.7	9606.8	9474.9	9422.1	9414.6	9463.6	9437.2	9305.2	9263.7
50°	9614.4	9595.5	9727.5	9859.5	9787.8	9667.2	9693.6	9772.7	9433.4	9256.2	9154.4
52.5°	10029.1	10032.9	10285.5	10357.1	10327.0	10149.8	10206.3	9991.4	9591.8	9342.9	9354.2
55°	10681.4	10655.0	10937.8	11148.9	11182.9	10956.6	10685.2	10383.5	9882.1	9629.5	9554.1
57°	10323.2	10383.5	10696.5	11322.4	11639.1	11371.4	10779.4	10229.0	9561.6	9256.2	9120.5
57.5°	9844.4	9942.4	10485.3	11115.0	11446.8	11424.2	10662.5	9942.4	9346.7	8871.6	8882.9
60°	7212.7	7231.5	7721.7	8720.8	9757.7	9780.3	8852.8	7898.9	7235.3	6718.8	6790.4
62.5°	3804.3	3891.0	4087.1	4890.1	5787.5	6006.2	5444.4	4954.2	4381.1	3989.0	4026.7
65°	2013.4	2002.1	2096.3	2322.5	2763.7	2876.8	2801.4	2413.0	2213.2	2149.1	2152.9
67.5°	1636.3	1655.2	1643.9	1655.2	1685.3	1734.4	1723.0	1738.1	1749.4	1768.3	1764.5
70°	1387.5	1387.5	1395.0	1398.8	1398.8	1421.4	1447.8	1496.8	1500.6	1519.5	1527.0
72.5°	1093.4	1085.9	1097.2	1123.6	1127.3	1146.2	1183.9	1214.1	1225.4	1225.4	1202.7
75°	742.8	750.3	765.4	788.0	810.6	844.6	874.7	893.6	901.1	889.8	878.5
77.5°	418.5	426.0	437.4	471.3	497.7	527.8	561.8	580.6	599.5	603.3	580.6
80°	248.8	248.8	267.7	294.1	324.2	354.4	384.6	407.2	414.7	414.7	403.4
82.5°	150.8	154.6	169.7	196.1	222.5	241.3	267.7	286.5	301.6	297.9	290.3
85°	79.2	79.2	94.3	116.9	135.7	154.6	154.6	143.3	135.7	116.9	109.3
87.5°	26.4	22.6	30.2	30.2	26.4	30.2	30.2	33.9	33.9	33.9	33.9
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)