

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: P652094

Luminaire Tested: **GALN-SA9A-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652094
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-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 30774.7 lumens
Efficiency: N/A
Efficacy: 112.3 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

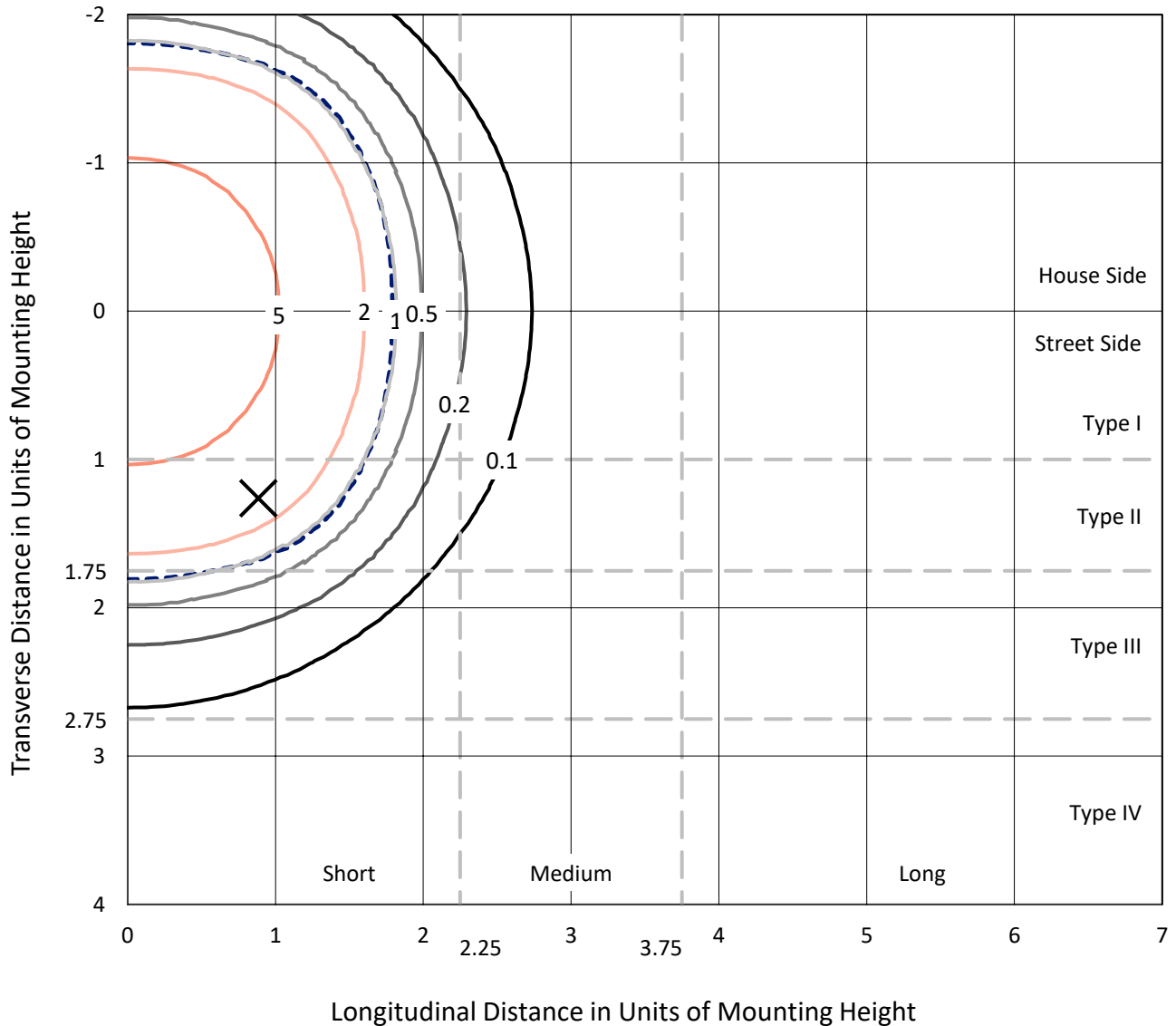
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

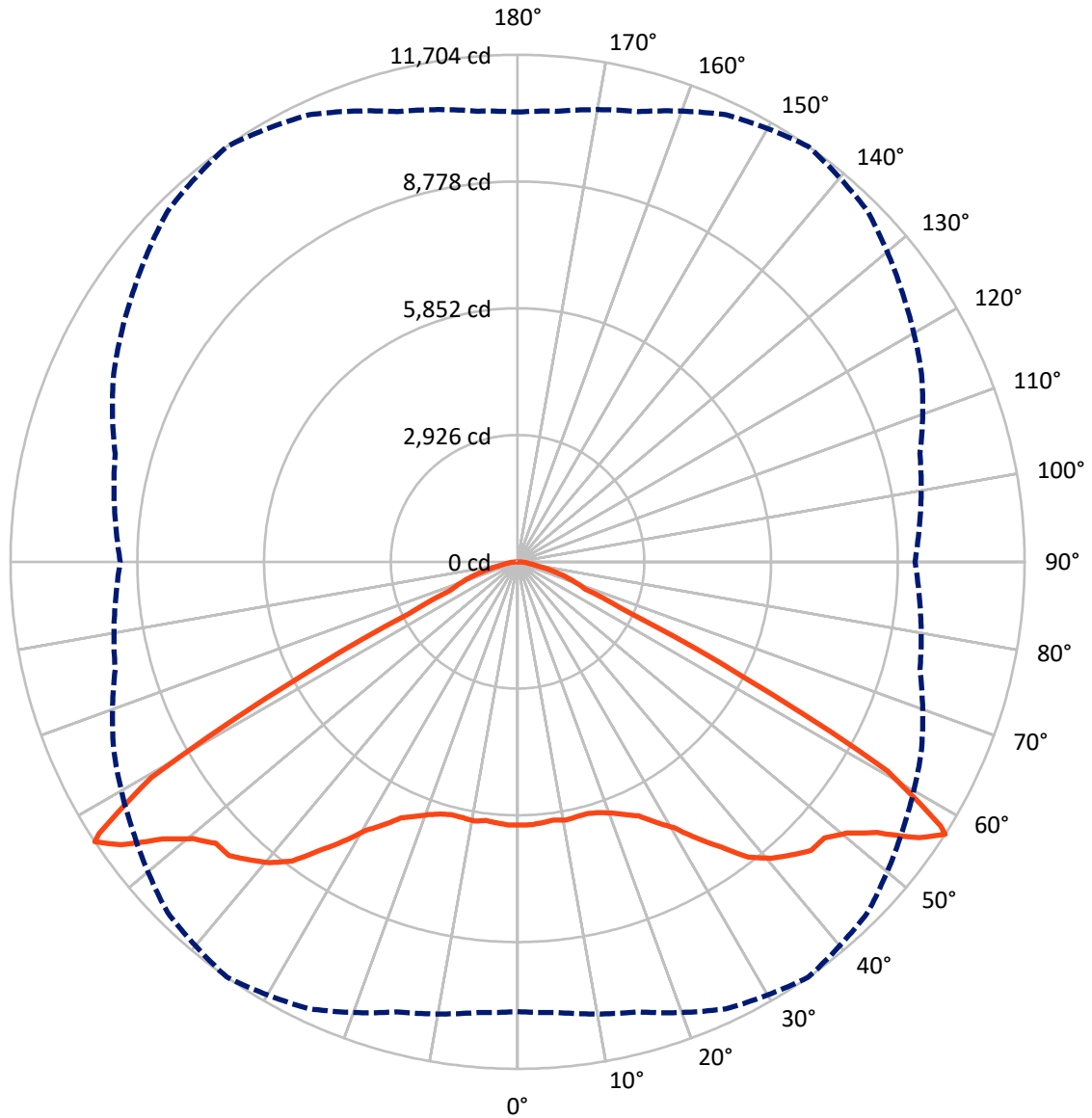
× Max cd
 - - - 1/2 Max cd



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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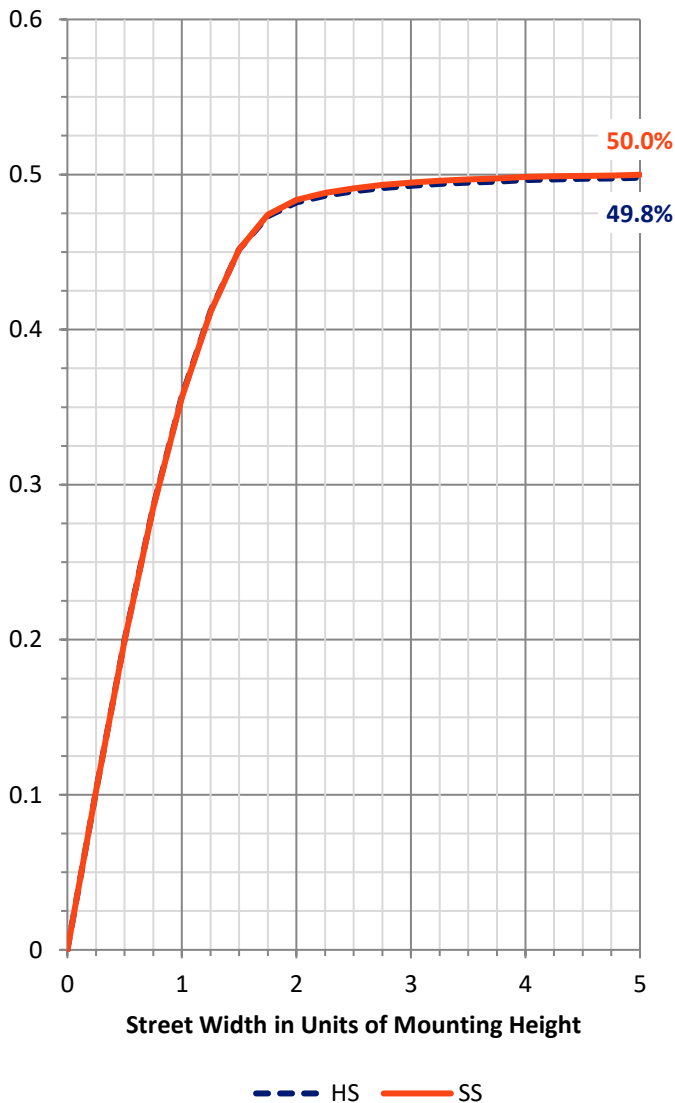
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15387.4	0.0	15387.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15387.4	0.0	15387.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	30774.7	0.0	30774.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.2	1.9
10°-20°	1706.5	5.5
20°-30°	2980.4	9.7
30°-40°	4883.5	15.9
40°-50°	7160.4	23.3
50°-60°	9019.1	29.3
60°-70°	3392.0	11.0
70°-80°	901.9	2.9
80°-90°	154.6	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°	30774.7	100.0
0°-180°	30774.7	100.0

Coefficient of Utilization

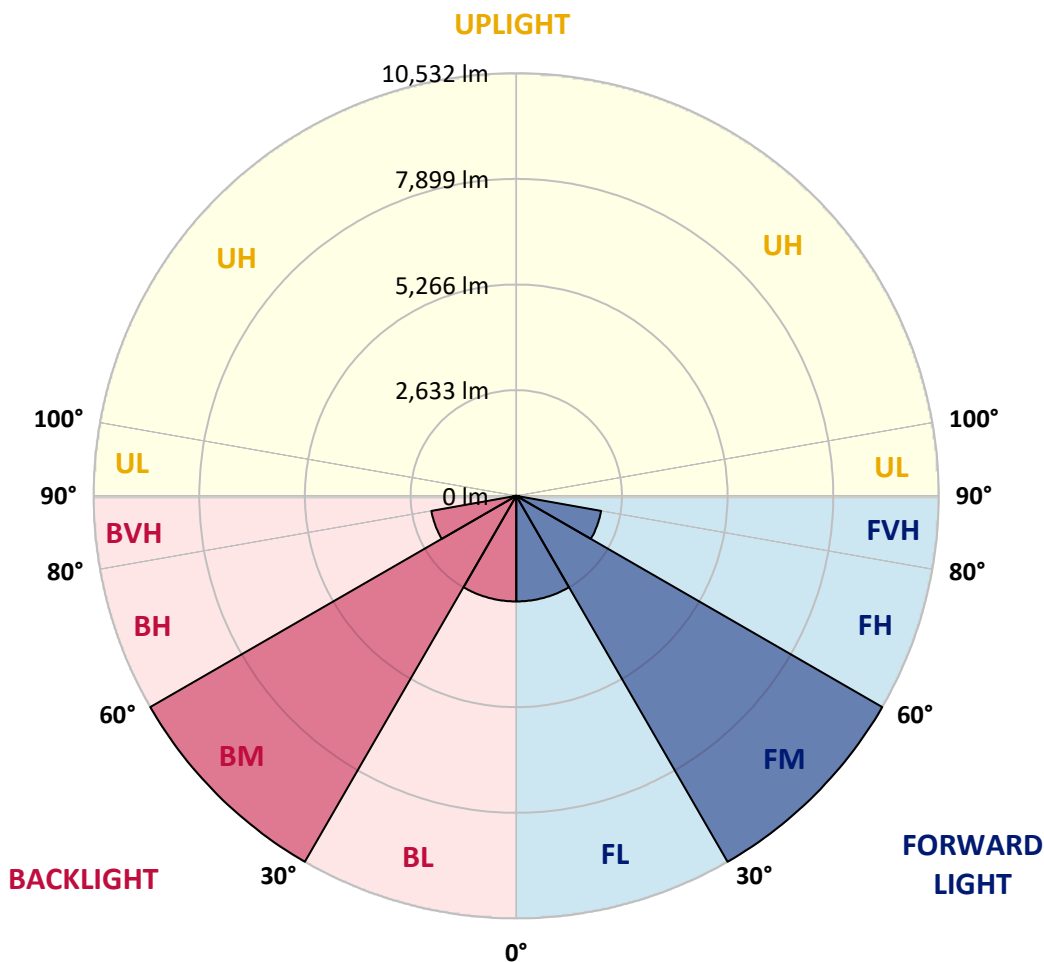


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.6	8.6			
FM (30°-60°)	10531.5	34.2			
FH (60°-80°)	2147.0	7.0			G2/5000
FVH (80°-90°)	77.3	0.3			G1/100
BL (0°-30°)	2631.6	8.6	B4/5000		
BM (30°-60°)	10531.5	34.2	B5		
BH (60°-80°)	2147.0	7.0	B3/2500		G2/5000
BVH (80°-90°)	77.3	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°	6077.7	6077.7	6077.7	6077.7	6077.7	6077.7	6077.7	6077.7	6077.7	6077.7	6077.7
2.5°	6047.5	6108.1	6081.6	6066.4	6077.7	6058.8	6028.5	6062.6	6055.0	6024.7	6013.3
5°	6032.2	6077.7	6047.5	6077.7	6047.5	6100.5	6085.4	6028.5	6096.7	6032.2	6055.0
7.5°	6020.9	6036.1	6043.7	6028.5	6017.1	6081.6	6047.5	6020.9	5983.0	5971.6	5990.6
10°	5994.4	6032.2	5975.4	6051.2	6066.4	6020.9	6020.9	5971.6	5941.2	5922.3	5986.7
12.5°	6062.6	5998.2	5990.6	6028.5	6039.9	6058.8	6005.7	5979.2	5922.3	5929.9	5918.5
15°	5983.0	6009.5	6013.3	6020.9	6032.2	6077.7	6028.5	5971.6	5948.9	5869.3	5876.8
17.5°	6013.3	5986.7	6013.3	6100.5	6085.4	6119.5	6066.4	5979.2	5926.1	5880.6	5941.2
20°	6066.4	6055.0	6066.4	6172.6	6191.5	6221.9	6176.4	6096.7	5994.4	5941.2	5971.6
22.5°	6123.2	6115.7	6123.2	6225.7	6335.6	6373.5	6328.0	6142.2	6089.2	5990.6	5956.5
25°	6225.7	6233.2	6312.9	6426.6	6498.7	6570.6	6487.2	6354.6	6184.0	6123.2	6051.2
27.5°	6453.2	6472.1	6517.6	6684.4	6809.6	6874.0	6756.4	6574.4	6468.3	6343.2	6324.2
30°	6733.7	6733.7	6813.4	6957.4	7128.1	7226.6	7082.6	6866.4	6737.5	6669.2	6627.6
32.5°	7105.3	7063.6	7093.9	7347.9	7613.3	7696.7	7503.4	7238.0	7033.2	6942.2	6911.9
35°	7423.8	7450.3	7518.5	7791.5	8087.3	8280.7	7977.3	7632.3	7423.8	7340.3	7325.2
37.5°	7837.0	7882.5	7916.7	8292.0	8648.4	8720.5	8428.5	8151.7	7897.7	7829.5	7791.5
40°	8420.9	8390.6	8402.0	8678.8	9001.1	9046.6	8758.3	8561.2	8352.6	8311.0	8311.0
42.5°	8902.5	8868.3	8906.3	9008.6	9255.0	9221.0	9061.7	8917.6	8830.4	8784.9	8830.4
45°	9194.4	9186.8	9255.0	9330.9	9505.3	9391.5	9266.5	9289.2	9205.8	9130.0	9126.1
47.5°	9512.9	9463.6	9547.0	9660.7	9528.0	9475.0	9467.4	9516.7	9490.1	9357.5	9315.8
50°	9668.3	9649.4	9782.1	9914.8	9842.7	9721.4	9747.9	9827.6	9486.3	9308.1	9205.8
52.5°	10085.4	10089.2	10343.2	10415.3	10384.9	10206.7	10263.6	10047.5	9645.6	9395.3	9406.8
55°	10741.3	10714.8	10999.2	11211.5	11245.6	11018.1	10745.1	10441.8	9937.5	9683.5	9607.7
57°	10381.1	10441.8	10756.5	11385.9	11704.4	11435.2	10839.9	10286.4	9615.2	9308.1	9171.6
57.5°	9899.6	9998.2	10544.2	11177.3	11511.0	11488.2	10722.3	9998.2	9399.1	8921.4	8932.8
60°	7253.1	7272.1	7765.0	8769.8	9812.4	9835.2	8902.5	7943.2	7275.9	6756.4	6828.5
62.5°	3825.6	3912.8	4110.0	4917.6	5820.0	6039.9	5474.9	4982.0	4405.7	4011.4	4049.3
65°	2024.6	2013.3	2108.1	2335.5	2779.2	2893.0	2817.1	2426.5	2225.6	2161.1	2165.0
67.5°	1645.5	1664.5	1653.1	1664.5	1694.8	1744.1	1732.7	1747.9	1759.3	1778.2	1774.4
70°	1395.3	1395.3	1402.9	1406.7	1406.7	1429.4	1455.9	1505.2	1509.0	1528.0	1535.6
72.5°	1099.5	1092.0	1103.3	1129.9	1133.7	1152.6	1190.5	1220.9	1232.2	1232.2	1209.5
75°	746.9	754.5	769.7	792.4	815.2	849.3	879.6	898.6	906.2	894.8	883.4
77.5°	420.8	428.4	439.8	473.9	500.5	530.8	564.9	583.9	602.8	606.6	583.9
80°	250.2	250.2	269.2	295.7	326.1	356.4	386.7	409.5	417.1	417.1	405.7
82.5°	151.6	155.4	170.6	197.1	223.7	242.6	269.2	288.1	303.3	299.6	291.9
85°	79.6	79.6	94.8	117.6	136.5	155.4	155.4	144.1	136.5	117.6	109.9
87.5°	26.6	22.7	30.4	30.4	26.6	30.4	30.4	34.1	34.1	34.1	34.1
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)