

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: P652100

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29579.6 lumens
Efficiency: N/A
Efficacy: 108.0 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

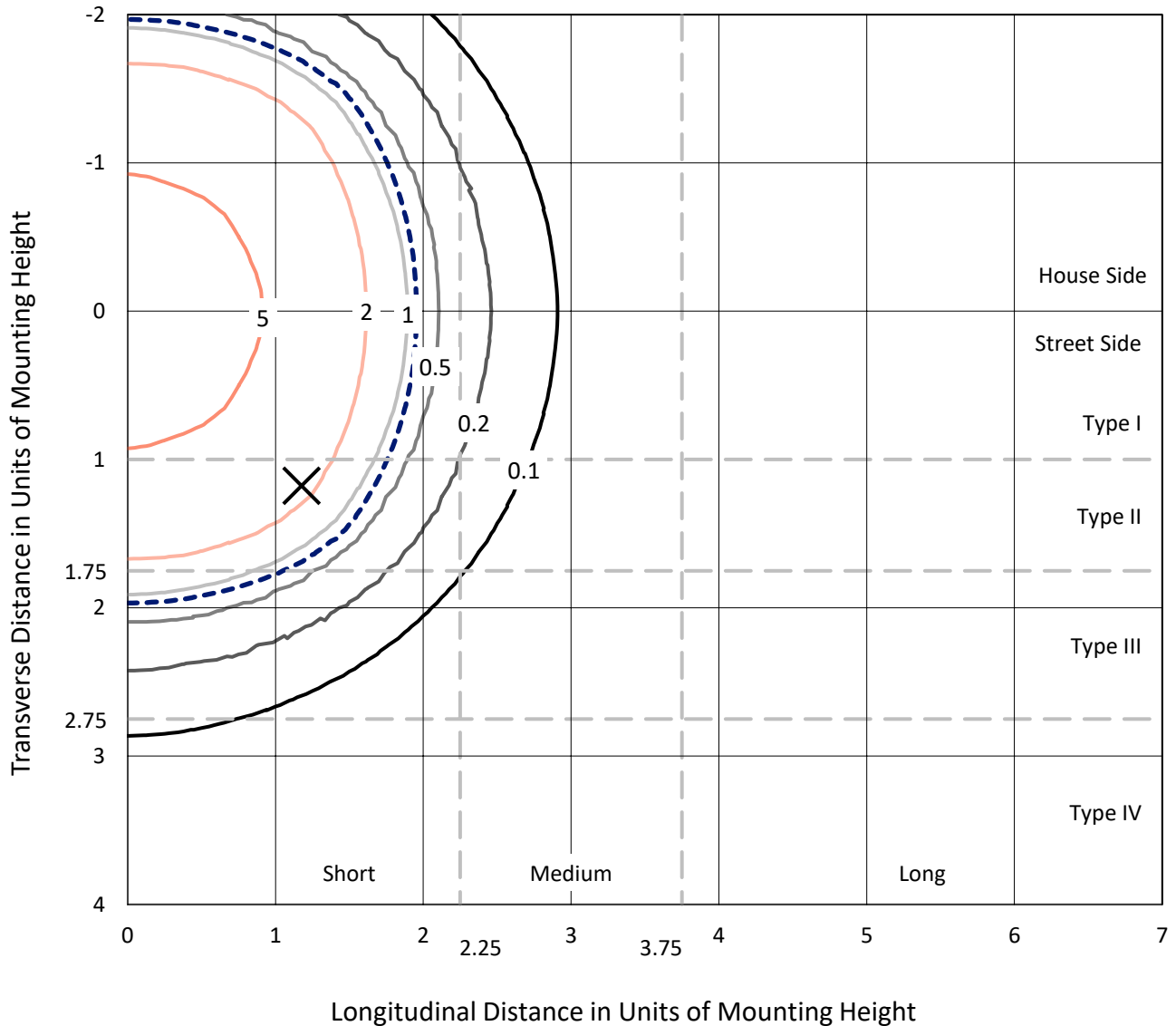




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Iso-Footcandle Lines of Horizontal Illumination

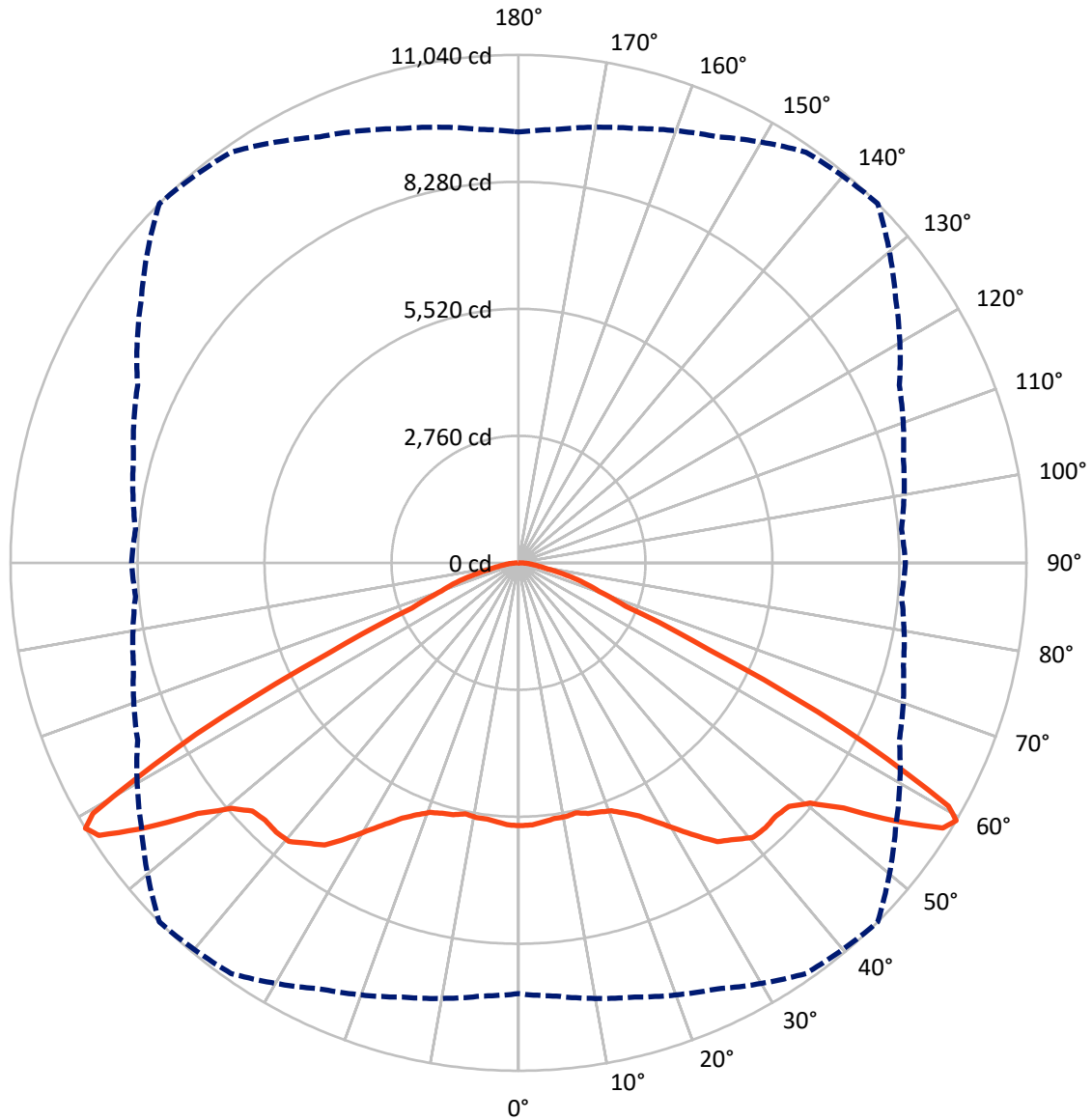
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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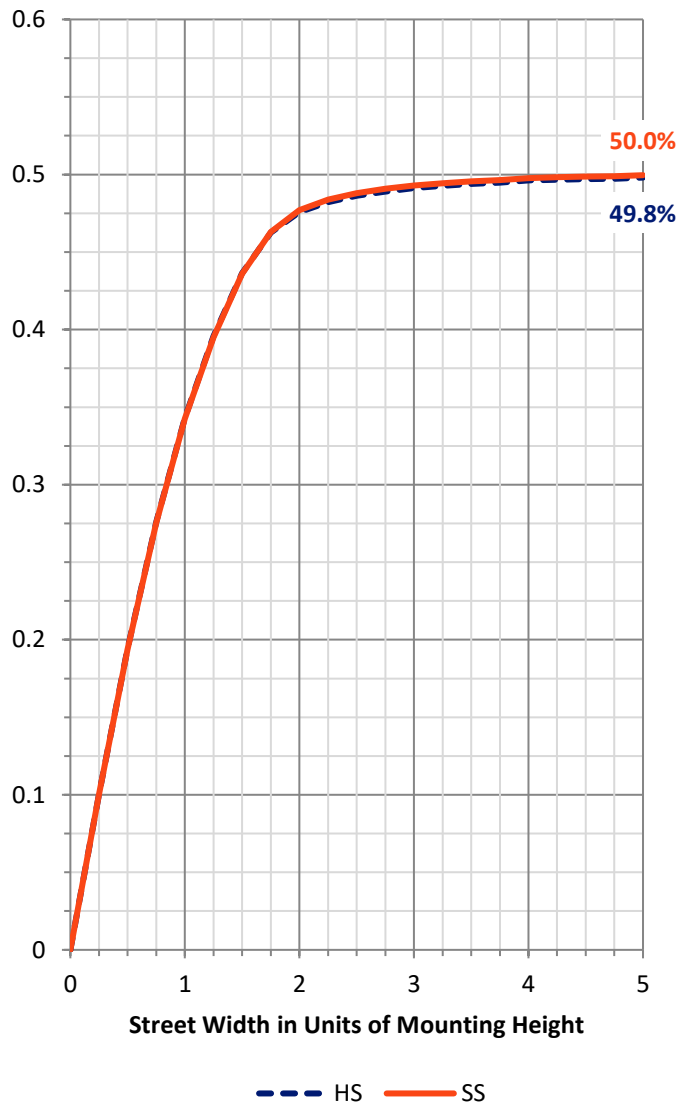
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14789.8	0.0	14789.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14789.8	0.0	14789.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	29579.6	0.0	29579.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.6	1.8
10°-20°	1601.7	5.4
20°-30°	2796.7	9.5
30°-40°	4466.7	15.1
40°-50°	6084.6	20.6
50°-60°	8228.0	27.8
60°-70°	4512.2	15.3
70°-80°	1154.4	3.9
80°-90°	196.9	0.7
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°	29579.6	100.0
0°-180°	29579.6	100.0

Coefficient of Utilization



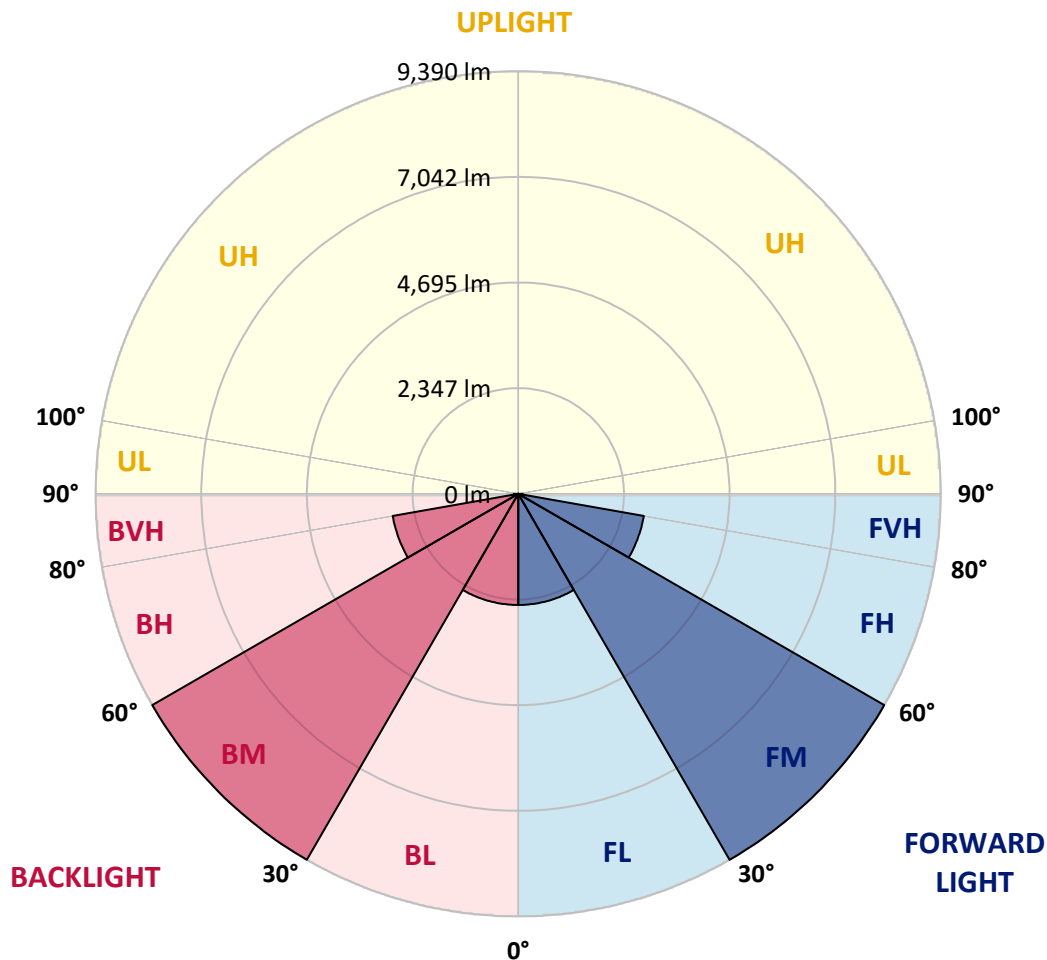
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.5	8.3			
FM (30°-60°)	9389.6	31.7			
FH (60°-80°)	2833.3	9.6			G2/5000
FVH (80°-90°)	98.4	0.3			G1/100
BL (0°-30°)	2468.5	8.3	B3/2500		
BM (30°-60°)	9389.6	31.7	B5		
BH (60°-80°)	2833.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	98.4	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°	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3
2.5°	5679.3	5721.0	5690.6	5717.2	5713.3	5702.0	5683.1	5671.7	5656.5	5679.3	5641.3
5°	5656.5	5690.6	5724.8	5679.3	5679.3	5656.5	5645.1	5622.4	5622.4	5618.6	5614.8
7.5°	5694.4	5660.3	5645.1	5652.7	5660.3	5611.0	5645.1	5599.6	5561.7	5588.3	5618.6
10°	5660.3	5675.5	5618.6	5645.1	5603.4	5611.0	5588.3	5618.6	5576.9	5576.9	5576.9
12.5°	5694.4	5652.7	5671.7	5652.7	5641.3	5576.9	5607.2	5573.1	5569.3	5607.2	5573.1
15°	5762.7	5694.4	5679.3	5641.3	5652.7	5652.7	5622.4	5626.2	5584.5	5607.2	5614.8
17.5°	5739.9	5702.0	5690.6	5645.1	5683.1	5694.4	5637.6	5599.6	5626.2	5622.4	5618.6
20°	5758.8	5774.1	5762.7	5770.3	5785.4	5755.0	5702.0	5648.9	5614.8	5664.1	5660.3
22.5°	5880.2	5865.0	5857.5	5849.8	5876.4	5906.8	5834.7	5751.3	5751.3	5785.4	5800.5
25°	5978.8	5975.0	5971.2	6005.3	6096.3	6096.3	6005.3	5899.1	5872.6	5895.3	5876.4
27.5°	6122.8	6164.5	6149.4	6210.0	6342.7	6373.0	6251.7	6126.6	6054.6	6028.0	6062.2
30°	6452.7	6403.4	6414.7	6479.2	6596.7	6695.3	6509.5	6376.8	6278.2	6274.4	6289.7
32.5°	6672.6	6710.5	6744.6	6805.3	6991.0	7066.8	6843.1	6627.1	6566.4	6532.3	6543.7
35°	7112.3	7078.2	7070.6	7131.3	7317.0	7442.2	7161.6	6972.1	6892.4	6968.3	6968.3
37.5°	7529.4	7434.6	7362.5	7442.2	7612.8	7628.0	7389.1	7286.8	7245.0	7332.3	7328.5
40°	7726.5	7719.0	7552.1	7597.6	7825.1	7847.8	7624.2	7502.8	7495.2	7608.9	7722.7
42.5°	7931.2	7859.2	7692.4	7722.7	7863.0	7870.6	7658.2	7624.2	7707.6	7817.5	7825.1
45°	7965.4	7904.7	7798.5	7722.7	7825.1	7847.8	7722.7	7745.4	7753.0	7885.7	7885.7
47.5°	8033.6	8026.0	7965.4	7908.5	7927.4	7908.5	7828.9	7863.0	7976.7	8041.2	8010.9
50°	8223.1	8143.6	8204.2	8154.9	8158.7	8211.8	8139.8	8173.8	8151.1	8094.3	8056.4
52.5°	8640.2	8602.3	8655.4	8689.5	8727.4	8848.7	8765.3	8583.3	8412.7	8261.1	8257.3
55°	9250.6	9277.2	9379.5	9553.8	9701.8	9895.1	9493.2	9057.2	8784.2	8545.4	8560.6
57.5°	9826.8	9807.9	9948.2	10346.2	10778.4	10877.0	10088.5	9466.7	9023.1	8871.5	8807.0
59°	9364.3	9455.3	9773.8	10217.3	10896.0	11040.1	10008.8	9133.1	8663.0	8355.8	8408.9
60°	8636.4	8670.5	8954.9	9572.9	10490.3	10736.7	9474.3	8617.5	7991.9	7813.7	7893.3
62.5°	6103.9	6077.3	6282.0	6786.3	7608.9	7942.6	7044.1	6441.3	6047.0	5849.8	5895.3
65°	3245.3	3366.6	3450.0	3764.7	4200.7	4553.3	4181.7	3920.2	3700.2	3537.2	3533.5
67.5°	2191.3	2176.2	2195.1	2267.2	2415.0	2513.6	2506.0	2373.3	2354.4	2324.0	2358.2
70°	1846.3	1838.8	1804.6	1804.6	1835.0	1857.7	1884.3	1899.4	1929.8	1967.6	1963.8
72.5°	1497.6	1478.6	1455.9	1444.4	1482.3	1493.8	1527.8	1543.1	1569.6	1565.8	1599.9
75°	989.5	989.5	1016.0	1046.4	1057.7	1080.5	1084.3	1129.8	1129.8	1137.4	1107.0
77.5°	553.5	538.3	557.3	587.6	614.2	655.9	697.6	731.7	750.7	743.1	743.1
80°	322.3	322.3	341.2	375.3	409.5	447.3	477.7	504.3	523.2	515.6	500.5
82.5°	200.9	200.9	219.9	254.0	280.6	303.3	345.0	379.1	401.8	394.3	375.3
85°	102.3	102.3	125.1	147.8	182.0	197.1	193.3	178.2	174.4	155.4	155.4
87.5°	26.6	26.6	37.9	41.7	34.1	37.9	37.9	37.9	37.9	37.9	41.7
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)