

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: P534310

Luminaire Tested: **GALN-SA9D-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534310
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-SA9D-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 59497 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

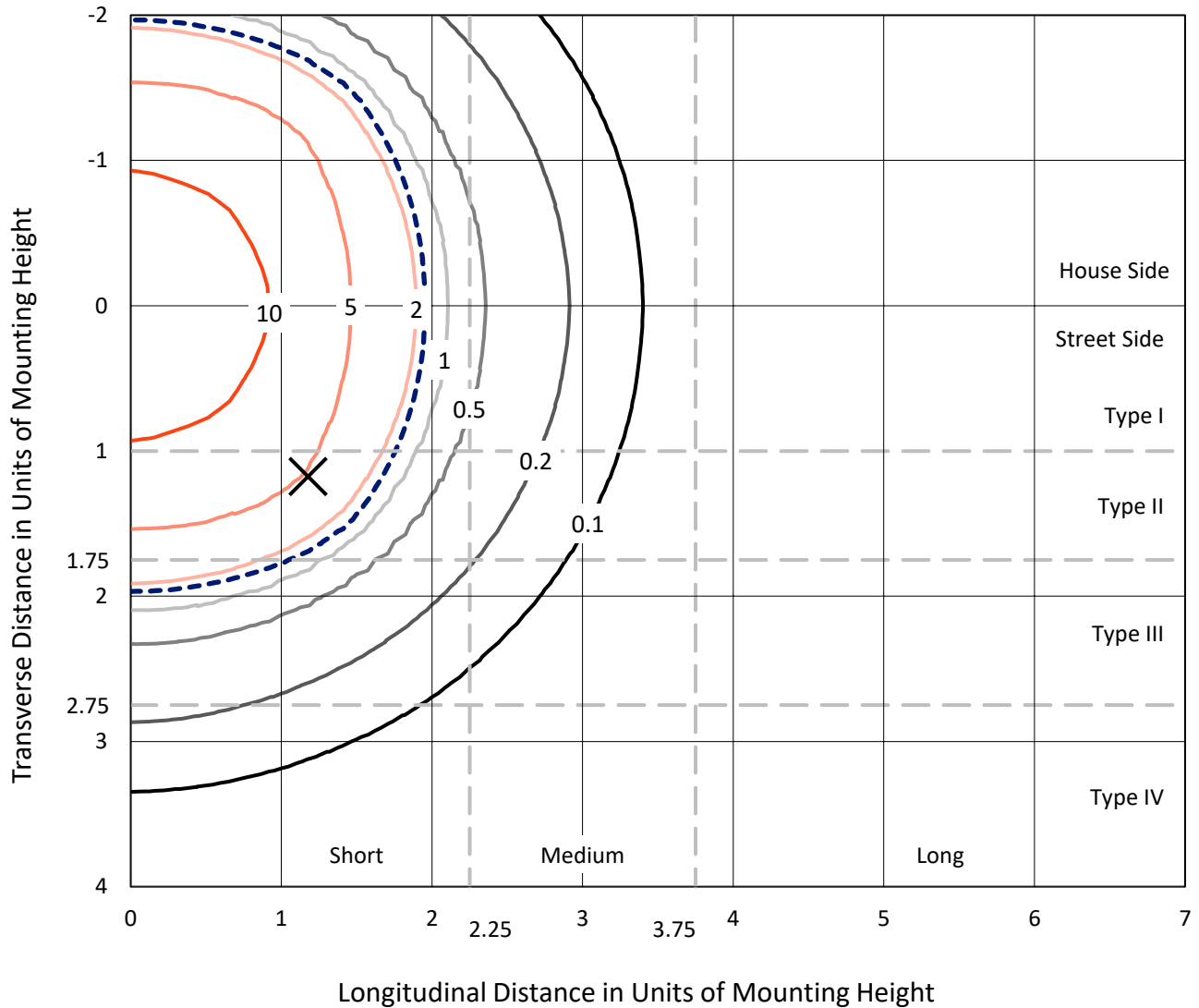
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

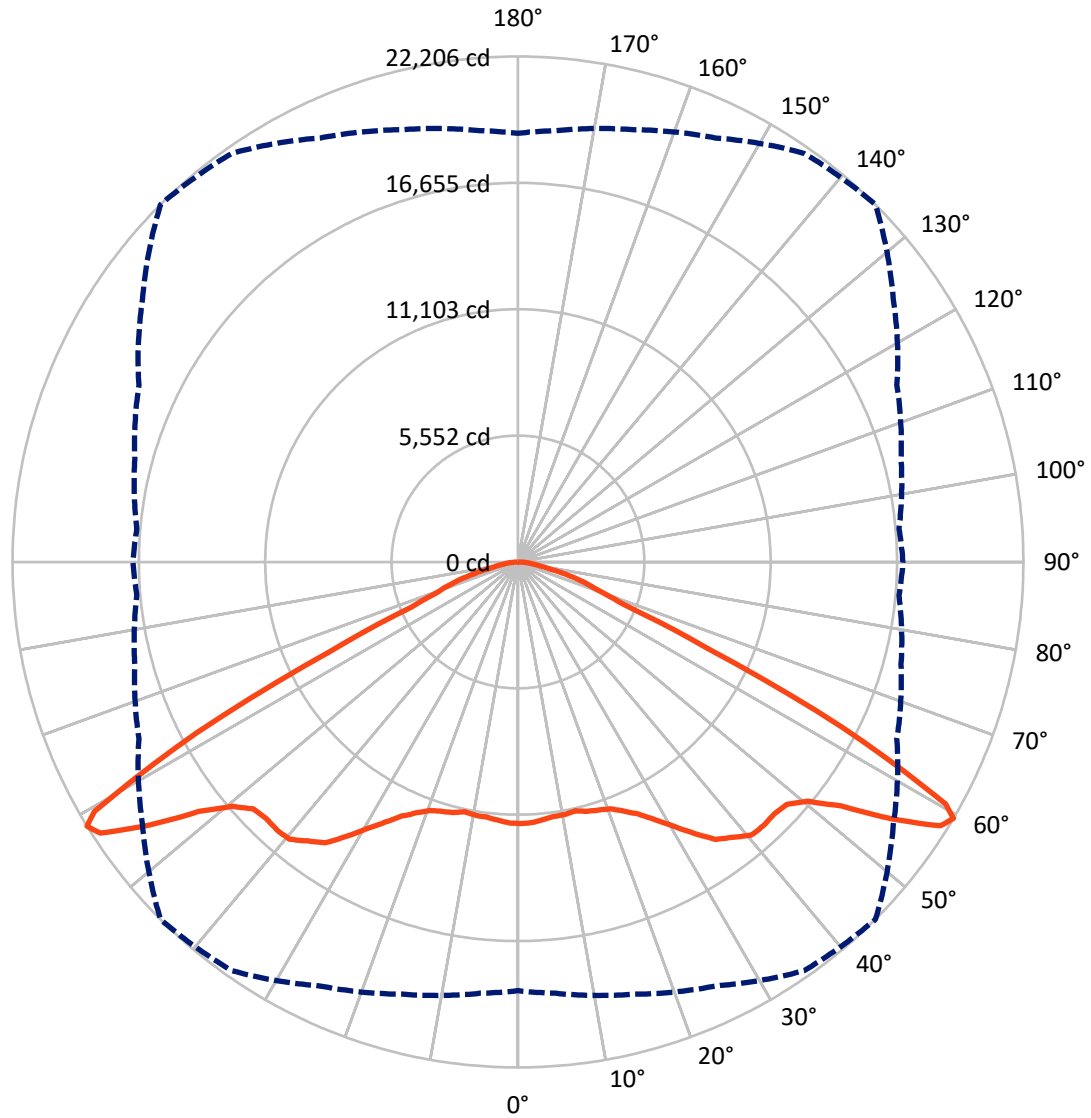
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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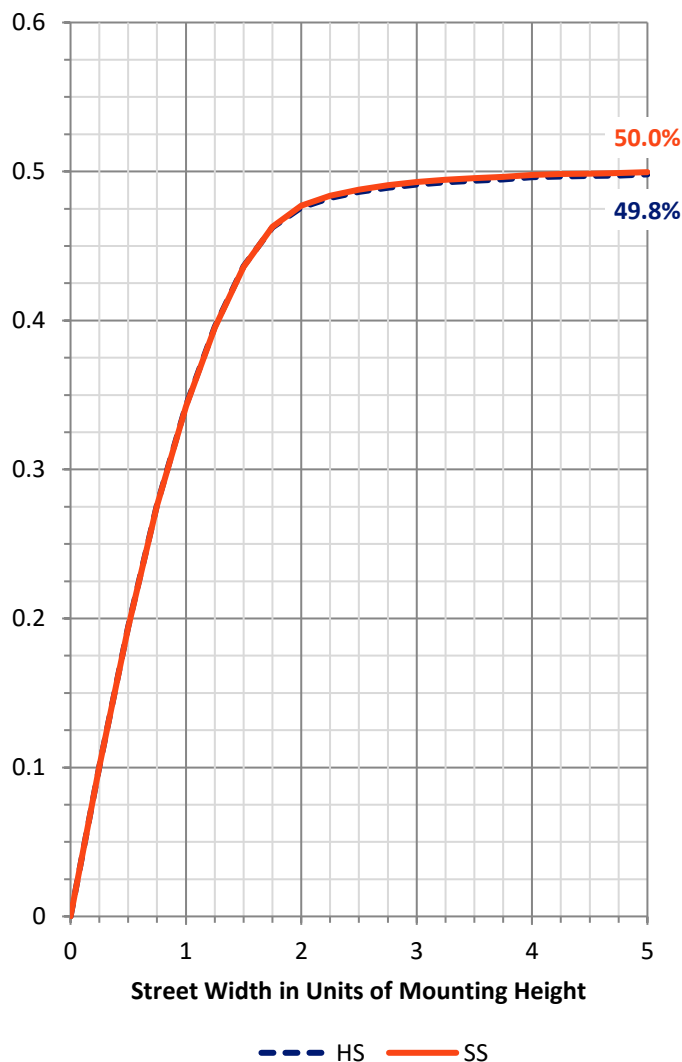
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29748.5	0.0	29748.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29748.5	0.0	29748.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	59497.0	0.0	59497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.3	1.8
10°-20°	3221.6	5.4
20°-30°	5625.3	9.5
30°-40°	8984.4	15.1
40°-50°	12238.6	20.6
50°-60°	16549.8	27.8
60°-70°	9076.0	15.3
70°-80°	2321.9	3.9
80°-90°	396.0	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°	59497.0	100.0
0°-180°	59497.0	100.0

Coefficient of Utilization



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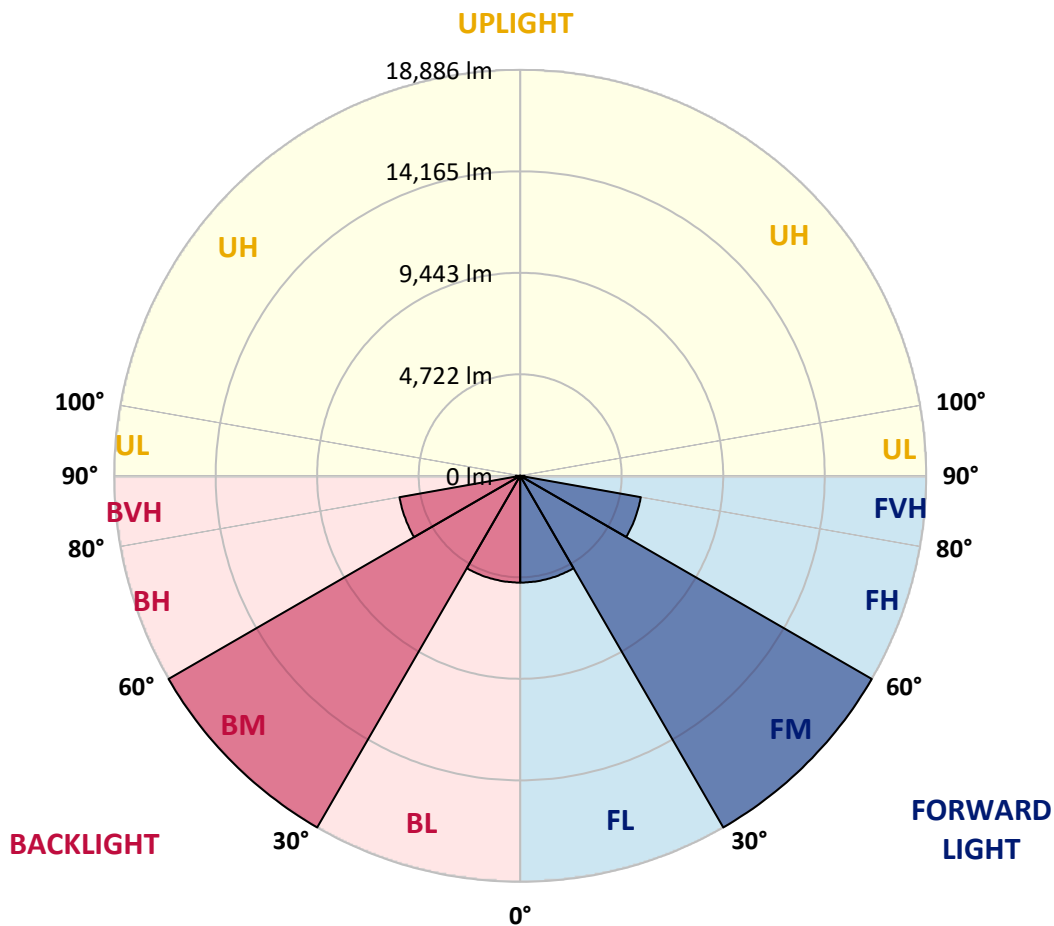
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4965.1	8.3			
FM (30°-60°)	18886.4	31.7			
FH (60°-80°)	5698.9	9.6			G3/7500
FVH (80°-90°)	198.0	0.3			G2/225
BL (0°-30°)	4965.1	8.3	B4/5000		
BM (30°-60°)	18886.4	31.7	B5		
BH (60°-80°)	5698.9	9.6	B5		G3/7500
BVH (80°-90°)	198.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11492.0	11492.0	11492.0	11492.0	11492.0	11492.0	11492.0	11492.0	11492.0	11492.0	11492.0
2.5°	11423.3	11507.2	11446.2	11499.6	11492.0	11469.1	11431.0	11408.1	11377.6	11423.3	11347.1
5°	11377.6	11446.2	11514.9	11423.3	11423.3	11377.6	11354.7	11309.0	11309.0	11301.3	11293.7
7.5°	11453.8	11385.2	11354.7	11370.0	11385.2	11286.1	11354.7	11263.2	11186.9	11240.3	11301.3
10°	11385.2	11415.7	11301.3	11354.7	11270.8	11286.1	11240.3	11301.3	11217.4	11217.4	11217.4
12.5°	11453.8	11370.0	11408.1	11370.0	11347.1	11217.4	11278.5	11209.8	11202.2	11278.5	11209.8
15°	11591.1	11453.8	11423.3	11347.1	11370.0	11370.0	11309.0	11316.6	11232.7	11278.5	11293.7
17.5°	11545.4	11469.1	11446.2	11354.7	11431.0	11453.8	11339.5	11263.2	11316.6	11309.0	11301.3
20°	11583.5	11614.0	11591.1	11606.4	11636.9	11575.9	11469.1	11362.3	11293.7	11392.8	11385.2
22.5°	11827.5	11797.0	11781.8	11766.5	11819.9	11880.9	11736.0	11568.2	11568.2	11636.9	11667.4
25°	12025.8	12018.2	12010.5	12079.2	12262.2	12262.2	12079.2	11865.6	11812.3	11858.0	11819.9
27.5°	12315.6	12399.4	12368.9	12490.9	12757.8	12818.9	12574.8	12323.2	12178.3	12124.9	12193.5
30°	12979.0	12879.9	12902.7	13032.4	13268.8	13467.0	13093.4	12826.5	12628.2	12620.6	12651.1
32.5°	13421.3	13497.5	13566.2	13688.2	14061.8	14214.4	13764.4	13329.8	13207.8	13139.1	13162.0
35°	14305.9	14237.2	14222.0	14344.0	14717.7	14969.3	14405.0	14023.7	13863.6	14016.1	14016.1
37.5°	15144.7	14954.1	14809.2	14969.3	15312.5	15343.0	14862.5	14656.7	14572.8	14748.2	14740.5
40°	15541.2	15526.0	15190.5	15282.0	15739.5	15785.3	15335.3	15091.3	15076.1	15304.8	15533.6
42.5°	15953.0	15808.1	15472.6	15533.6	15815.8	15831.0	15404.0	15335.3	15503.1	15724.3	15739.5
45°	16021.7	15899.6	15686.1	15533.6	15739.5	15785.3	15533.6	15579.4	15594.6	15861.5	15861.5
47.5°	16158.9	16143.7	16021.7	15907.3	15945.4	15907.3	15747.1	15815.8	16044.5	16174.2	16113.2
50°	16540.2	16380.1	16502.1	16402.9	16410.6	16517.3	16372.4	16441.1	16395.3	16280.9	16204.7
52.5°	17379.0	17302.8	17409.5	17478.2	17554.4	17798.5	17630.7	17264.7	16921.5	16616.5	16608.8
55°	18606.8	18660.2	18866.1	19216.8	19514.2	19903.2	19094.8	18217.9	17668.8	17188.4	17218.9
57.5°	19765.9	19727.8	20009.9	20810.6	21680.0	21878.2	20292.1	19041.4	18149.2	17844.2	17714.6
59°	18835.6	19018.6	19659.1	20551.3	21916.3	22206.1	20131.9	18370.4	17424.8	16807.1	16913.9
60°	17371.4	17440.0	18012.0	19255.0	21100.4	21596.1	19056.7	17333.3	16075.0	15716.6	15876.8
62.5°	12277.4	12224.0	12635.8	13650.1	15304.8	15975.9	14168.6	12956.1	12163.0	11766.5	11858.0
65°	6527.6	6771.6	6939.4	7572.3	8449.3	9158.5	8411.2	7885.0	7442.7	7114.8	7107.2
67.5°	4407.7	4377.2	4415.3	4560.2	4857.6	5055.9	5040.6	4773.7	4735.6	4674.6	4743.2
70°	3713.7	3698.5	3629.8	3629.8	3690.9	3736.6	3790.0	3820.5	3881.5	3957.8	3950.1
72.5°	3012.2	2974.0	2928.3	2905.4	2981.7	3004.5	3073.2	3103.7	3157.1	3149.4	3218.1
75°	1990.3	1990.3	2043.7	2104.7	2127.6	2173.3	2181.0	2272.5	2272.5	2287.7	2226.7
77.5°	1113.4	1082.9	1121.0	1182.0	1235.4	1319.3	1403.1	1471.8	1509.9	1494.6	1494.6
80°	648.2	648.2	686.3	754.9	823.6	899.8	960.8	1014.2	1052.4	1037.1	1006.6
82.5°	404.2	404.2	442.3	510.9	564.3	610.1	693.9	762.6	808.3	793.1	754.9
85°	205.9	205.9	251.6	297.4	366.0	396.5	388.9	358.4	350.8	312.7	312.7
87.5°	53.4	53.4	76.3	83.9	68.6	76.3	76.3	76.3	76.3	76.3	83.9
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)