

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: P651611

Luminaire Tested: **GALN-SA9D-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38115.8 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

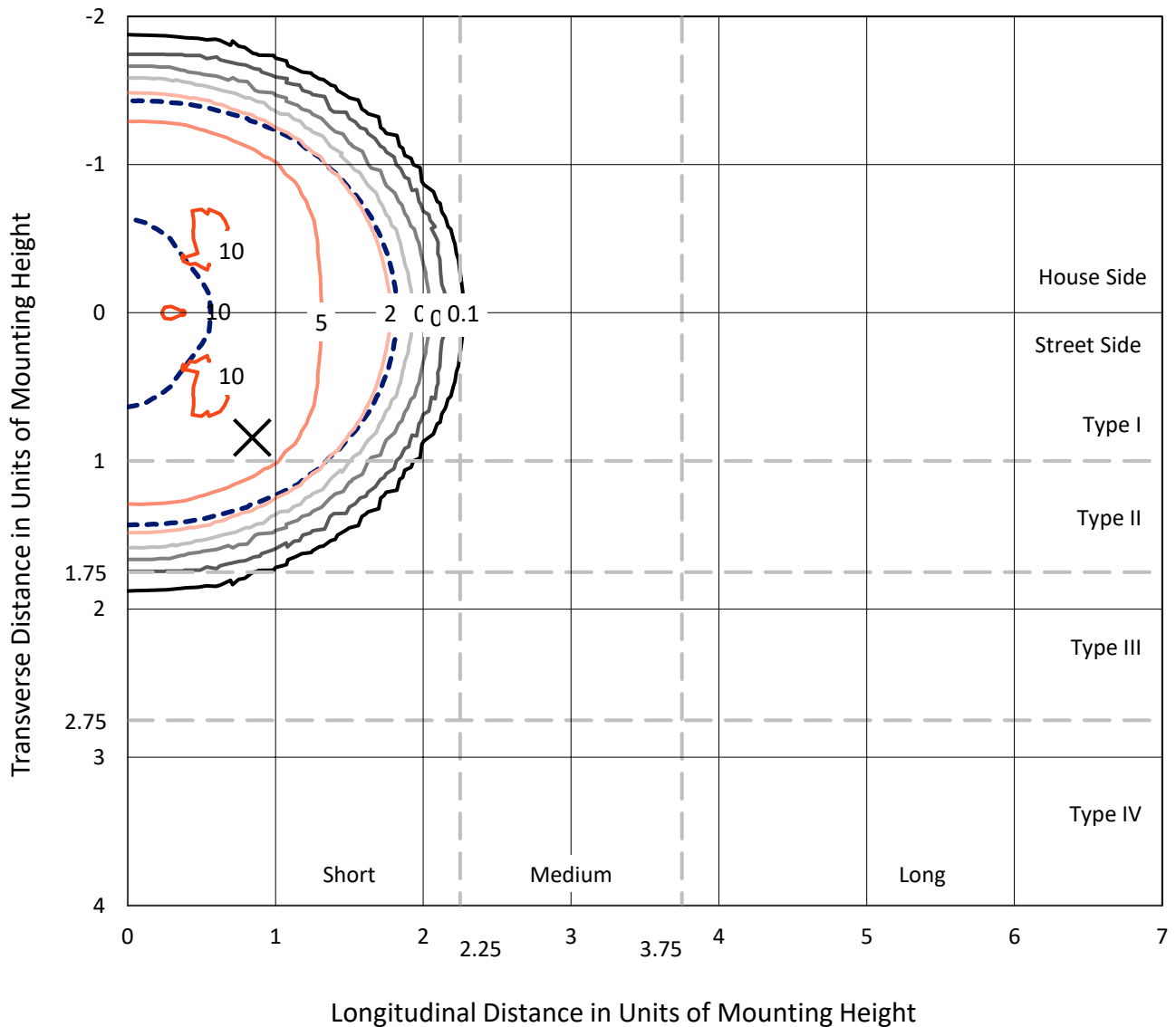
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

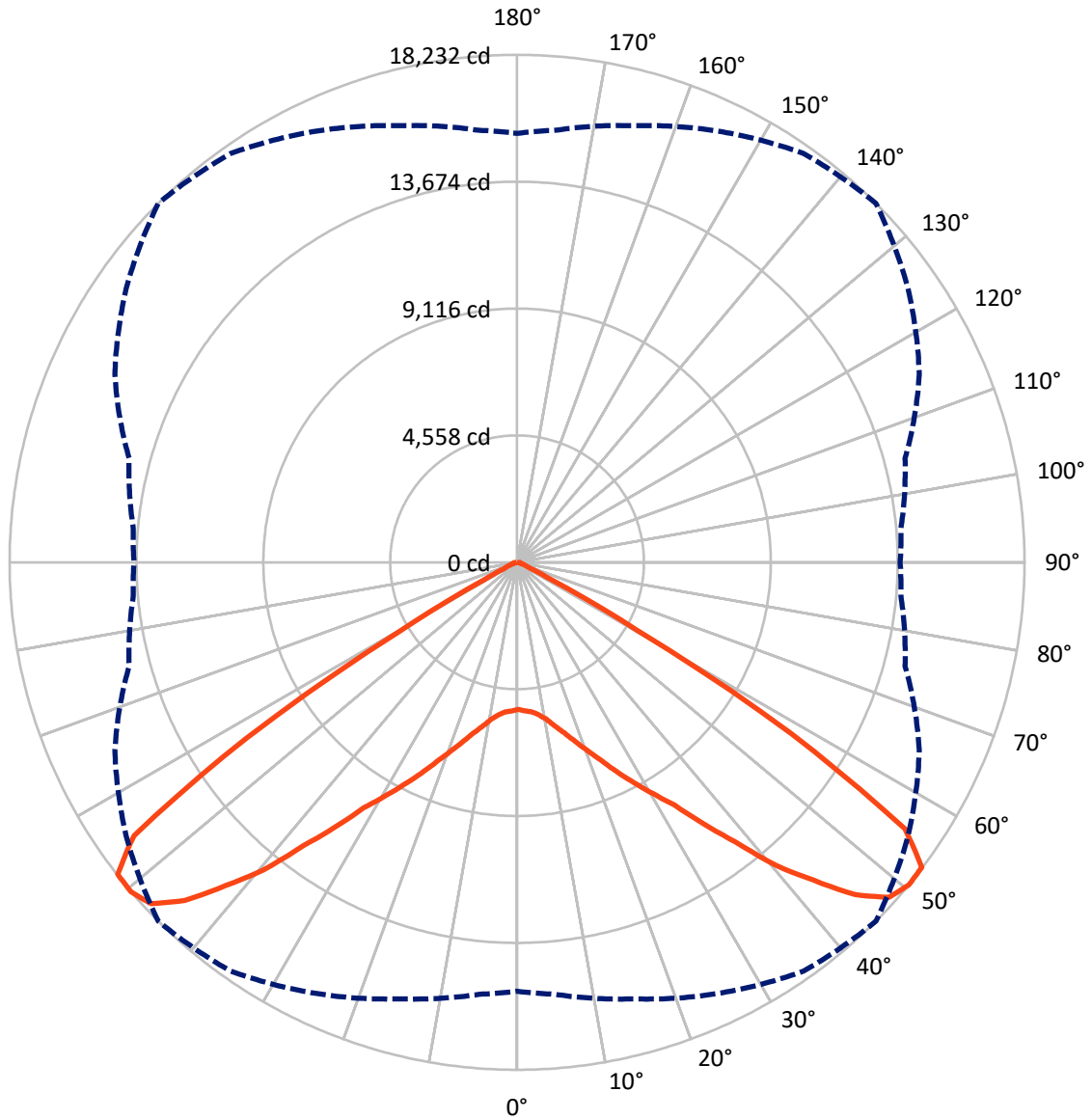
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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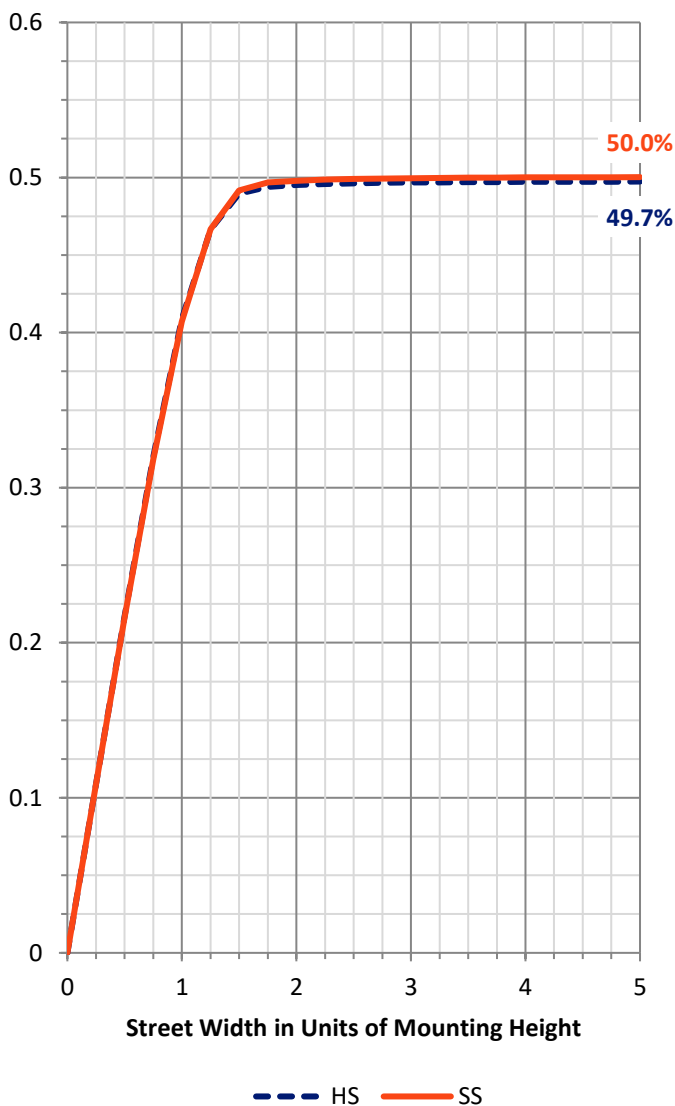
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19057.9	0.0	19057.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19057.9	0.0	19057.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	38115.8	0.0	38115.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.7	1.4
10°-20°	1811.9	4.8
20°-30°	3700.6	9.7
30°-40°	7057.1	18.5
40°-50°	11892.2	31.2
50°-60°	11341.3	29.8
60°-70°	1583.2	4.2
70°-80°	151.4	0.4
80°-90°	52.3	0.1
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°	38115.8	100.0
0°-180°	38115.8	100.0

Coefficient of Utilization



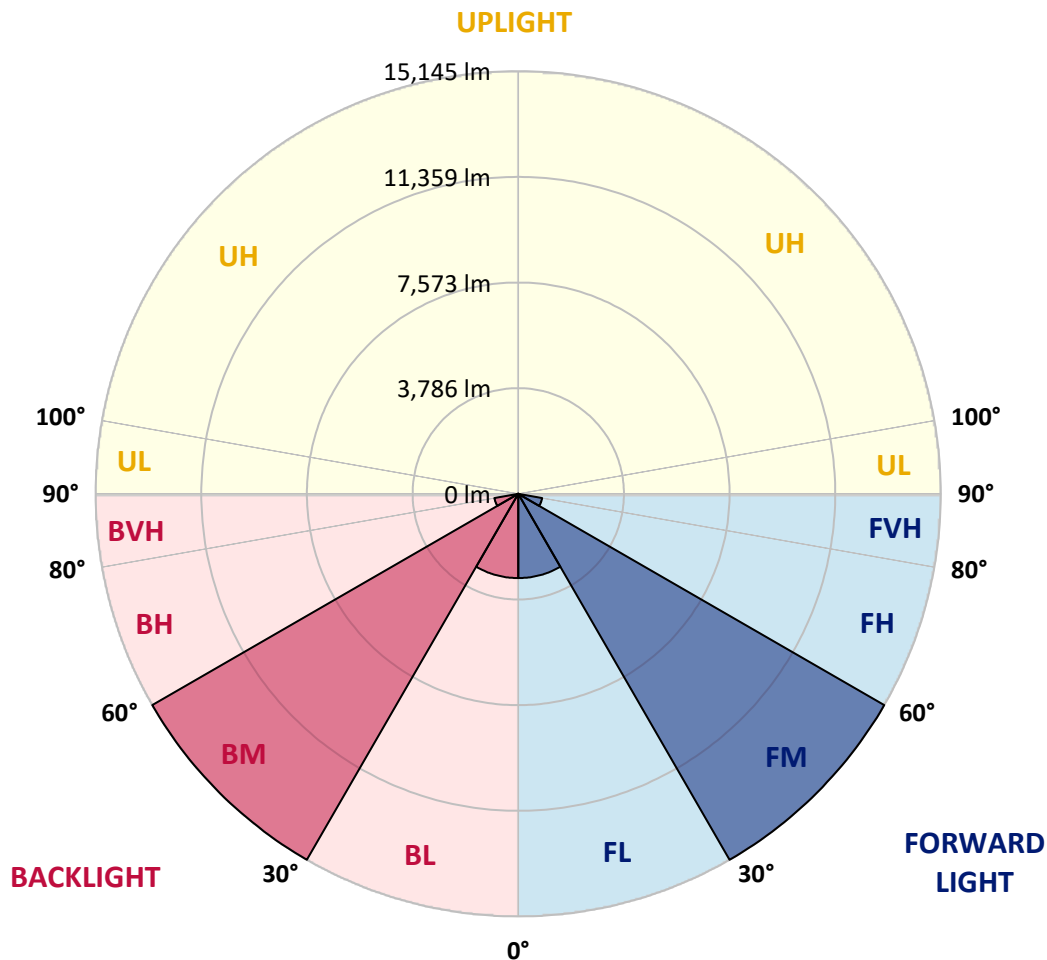
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3019.1	7.9			
FM (30°-60°)	15145.3	39.7			
FH (60°-80°)	867.3	2.3			G1/1800
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	3019.1	7.9	B4/5000		
BM (30°-60°)	15145.3	39.7	B5		
BH (60°-80°)	867.3	2.3	B2/1000		G1/1800
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5284.3	5284.3	5284.3	5284.3	5284.3	5284.3	5284.3	5284.3	5284.3	5284.3	5284.3
2.5°	5265.1	5265.1	5258.7	5310.0	5284.3	5342.0	5335.6	5354.9	5374.2	5367.7	5419.0
5°	5220.2	5213.8	5213.8	5271.5	5329.2	5393.3	5451.1	5489.5	5553.7	5553.7	5617.8
7.5°	5265.1	5233.0	5277.9	5303.6	5412.6	5521.6	5617.8	5694.7	5842.3	5893.6	5874.3
10°	5277.9	5316.4	5348.5	5425.5	5560.1	5726.9	5810.2	6002.6	6169.3	6284.8	6310.4
12.5°	5361.3	5419.0	5508.8	5694.7	5816.6	6034.7	6150.1	6336.1	6566.9	6695.2	6785.0
15°	5521.6	5540.8	5656.3	5893.6	6156.5	6355.4	6534.9	6669.6	6894.0	7041.5	7047.9
17.5°	5726.9	5810.2	5970.5	6195.0	6470.7	6765.8	6906.8	7054.3	7137.7	7336.5	7381.4
20°	6137.3	6150.1	6304.0	6599.0	6945.3	7214.7	7317.3	7394.2	7362.2	7567.4	7605.8
22.5°	6522.0	6534.9	6727.2	7124.9	7496.8	7727.7	7772.6	7727.7	7631.5	7779.0	7791.9
25°	6913.3	7028.7	7169.8	7567.4	8029.1	8336.9	8343.4	8221.5	8022.7	8048.4	8112.5
27.5°	7522.5	7605.8	7753.3	8118.9	8625.5	8971.8	8914.1	8766.6	8510.1	8529.3	8510.1
30°	8234.3	8311.3	8433.1	8901.3	9273.2	9651.6	9735.0	9593.9	9209.1	9125.8	9221.9
32.5°	9093.6	9202.7	9427.2	9856.9	10171.1	10401.9	10459.7	10408.4	10049.2	10017.2	10081.3
35°	10139.0	10286.5	10491.7	10870.1	11126.6	11543.5	11543.5	11370.3	11043.3	11081.7	11075.3
37.5°	11242.1	11460.1	11780.7	12165.5	12511.8	12736.3	12665.7	12518.2	12191.1	12107.8	12191.1
40°	12627.3	12736.3	13140.3	13640.5	14063.8	14320.3	14018.9	13698.2	12915.8	13037.7	13262.1
42.5°	13890.6	14063.8	14371.6	14923.1	15404.1	15615.7	15256.6	14621.7	13679.0	13582.8	13749.5
45°	14968.0	15154.0	15558.0	16346.9	16853.5	17039.4	16244.2	15218.1	14140.7	13897.0	13967.6
47.5°	15686.2	15782.5	16346.9	17097.1	17558.9	17982.1	16840.6	15628.6	14358.8	13897.0	13871.4
50°	15410.5	15577.3	16237.8	17090.7	17930.8	18232.2	17142.0	15942.8	14429.3	13839.3	13762.4
52.5°	13685.4	13974.0	14711.5	15859.4	17129.2	18206.6	17558.9	15840.2	14403.6	13897.0	14012.5
55°	9523.3	9529.8	10427.6	12120.7	14365.2	16904.8	16949.6	15955.6	14570.4	14256.1	14262.6
57.5°	3828.6	4021.0	4707.2	6406.7	8478.0	11607.6	13800.8	14801.3	14589.7	14512.7	14711.5
60°	968.3	974.8	1186.4	1808.5	2982.0	4976.5	7227.5	9779.9	11261.2	11767.9	11838.4
62.5°	493.8	500.2	551.5	641.3	814.4	1333.9	2372.8	3764.5	5354.9	6162.9	6374.5
65°	404.0	404.0	436.1	481.0	487.4	513.0	615.6	878.6	1276.2	1449.4	1468.6
67.5°	307.8	307.8	333.5	359.1	372.0	365.6	352.7	365.6	442.5	423.3	410.4
70°	192.4	198.8	211.6	237.2	250.1	256.5	262.9	275.8	314.2	327.1	314.2
72.5°	115.5	115.5	121.9	141.1	160.3	173.2	192.4	205.2	224.5	256.5	250.1
75°	51.3	51.3	64.2	83.3	102.6	121.9	141.1	160.3	173.2	192.4	198.8
77.5°	12.9	19.3	32.0	57.7	77.0	102.6	128.3	147.5	160.3	160.3	153.9
80°	6.4	6.4	25.7	44.9	83.3	109.0	141.1	153.9	173.2	160.3	141.1
82.5°	6.4	6.4	25.7	44.9	77.0	109.0	147.5	166.8	179.6	160.3	134.6
85°	0.0	6.4	19.3	38.5	64.2	77.0	64.2	44.9	25.7	25.7	19.3
87.5°	0.0	0.0	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)