

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: P647653

Luminaire Tested: **GALN-SA9D-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56654.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

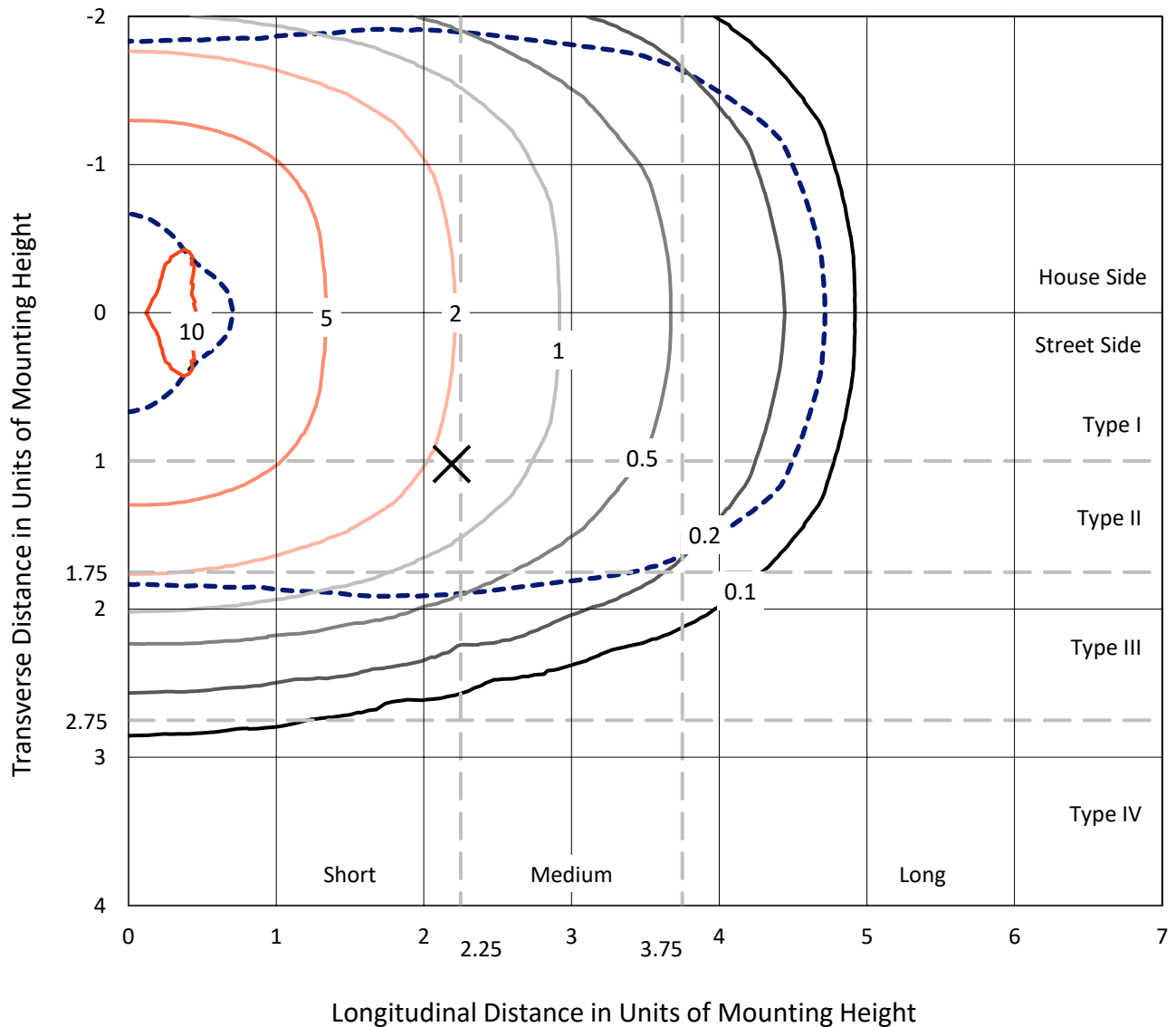
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

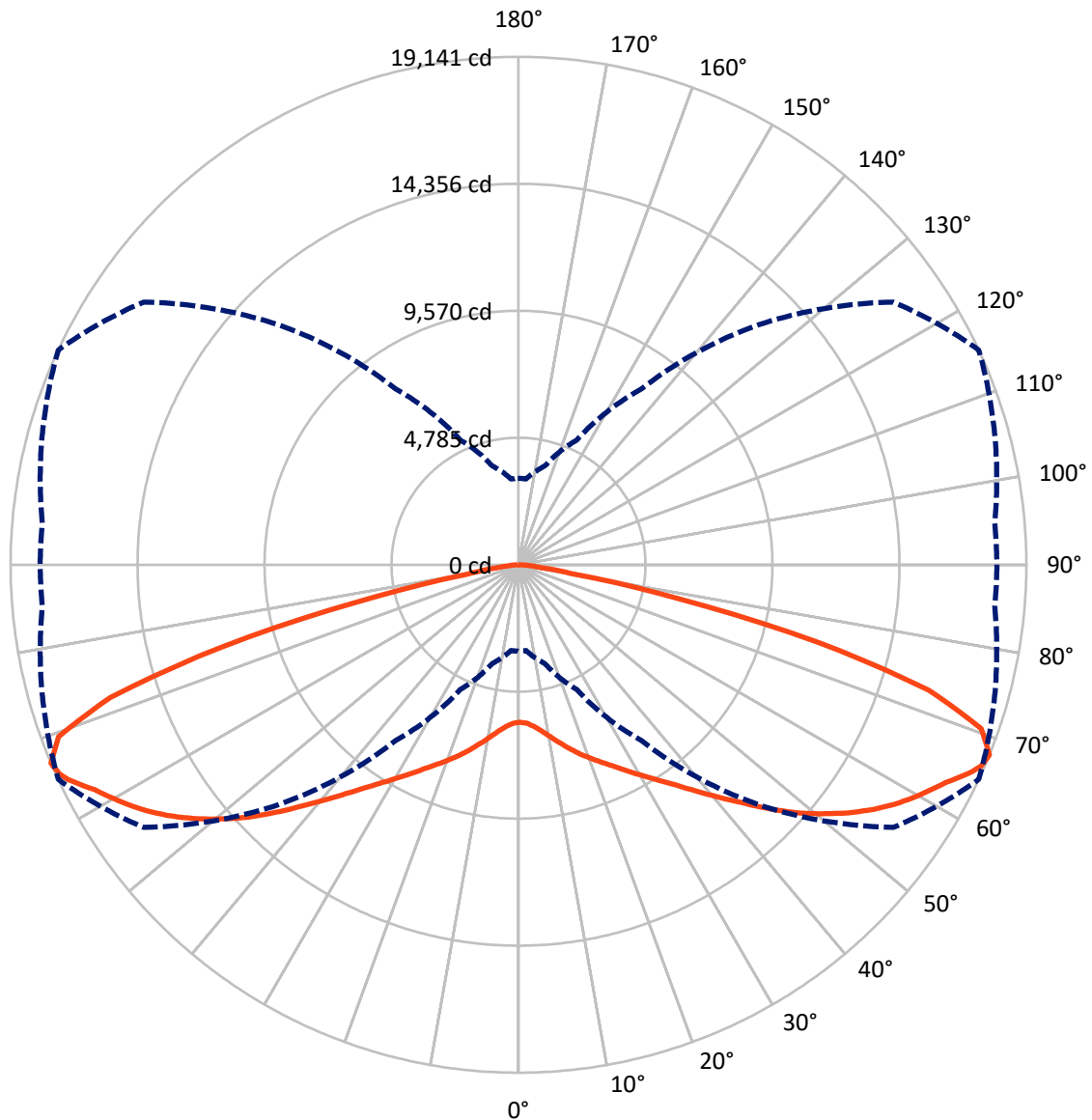
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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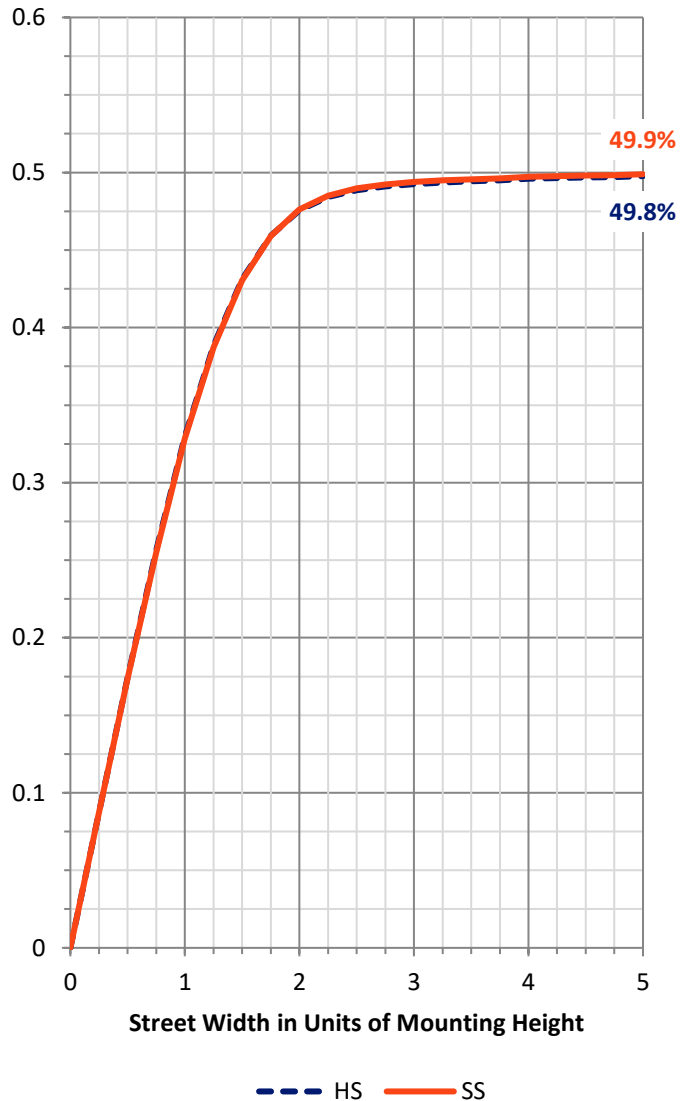
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28327.4	0.0	28327.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28327.4	0.0	28327.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	56654.7	0.0	56654.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.3	1.0
10°-20°	1958.8	3.5
20°-30°	3831.6	6.8
30°-40°	6517.0	11.5
40°-50°	10314.5	18.2
50°-60°	13676.8	24.1
60°-70°	12901.4	22.8
70°-80°	6377.8	11.3
80°-90°	491.5	0.9
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°	56654.7	100.0
0°-180°	56654.7	100.0

Coefficient of Utilization

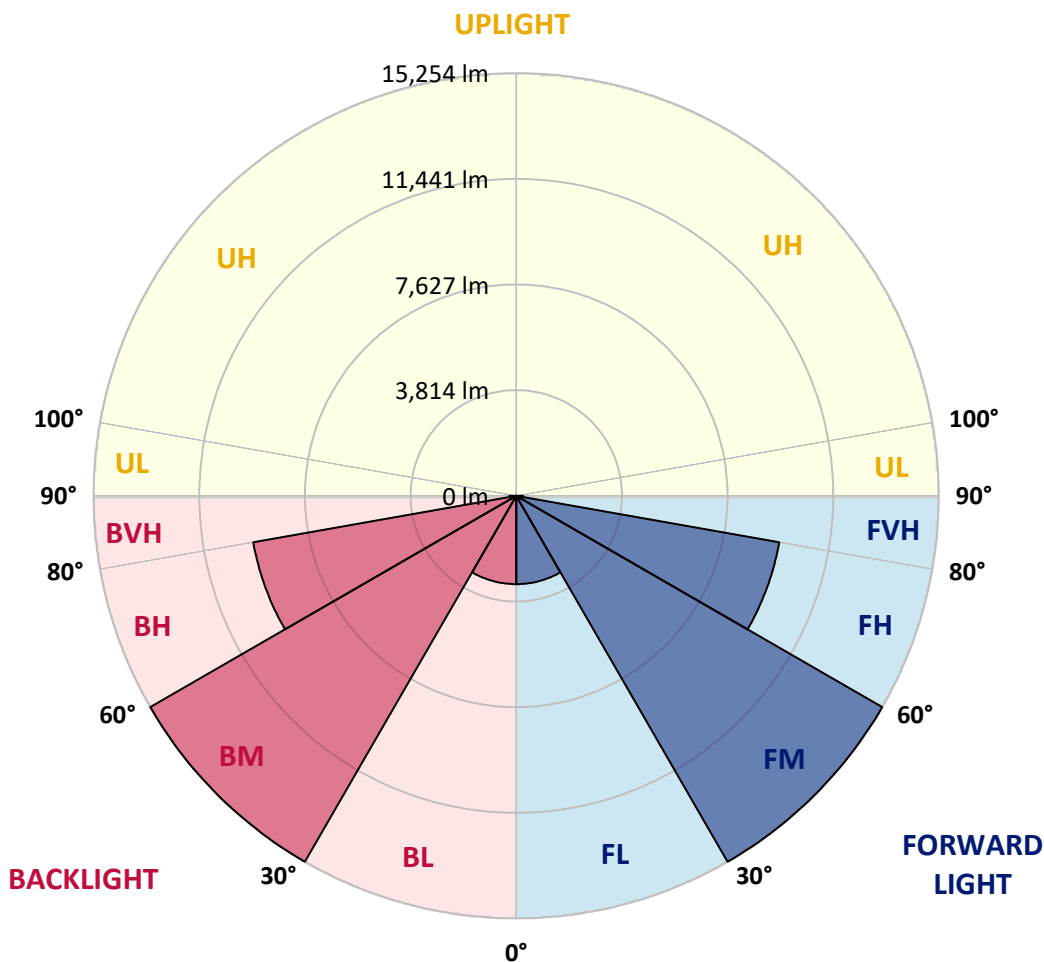


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3187.8	5.6			
FM (30°-60°)	15254.1	26.9			
FH (60°-80°)	9639.6	17.0			G4/12000
FVH (80°-90°)	245.8	0.4			G3/500
BL (0°-30°)	3187.8	5.6	B4/5000		
BM (30°-60°)	15254.1	26.9	B5		
BH (60°-80°)	9639.6	17.0	B5		G5
BVH (80°-90°)	245.8	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5934.1	5934.1	5934.1	5934.1	5934.1	5934.1	5934.1	5934.1	5934.1	5934.1	5934.1
2.5°	5903.7	5909.8	5915.9	5925.0	5937.1	5955.3	5967.5	5976.6	6000.8	6003.9	6000.8
5°	5882.5	5888.6	5903.7	5931.1	5970.5	6025.1	6067.6	6119.2	6158.7	6186.0	6180.0
7.5°	5879.5	5891.6	5915.9	5973.5	6049.5	6143.5	6240.7	6328.7	6404.5	6465.2	6456.1
10°	5928.0	5943.2	5982.7	6067.6	6186.0	6322.6	6459.2	6589.7	6699.0	6777.9	6805.2
12.5°	6010.0	6022.1	6095.0	6222.4	6392.4	6562.4	6717.2	6878.1	7029.9	7163.4	7163.4
15°	6152.7	6173.9	6264.9	6450.1	6659.5	6856.8	7014.7	7184.7	7348.5	7500.4	7545.8
17.5°	6349.9	6380.3	6516.9	6753.6	7020.8	7202.9	7351.6	7491.2	7633.9	7779.6	7800.8
20°	6620.1	6650.4	6832.5	7117.9	7433.6	7652.1	7752.2	7785.6	7855.4	7995.1	8013.3
22.5°	6987.3	7017.7	7221.1	7542.8	7894.9	8131.7	8174.1	8095.3	8077.0	8186.3	8198.5
25°	7403.2	7430.5	7664.2	8010.2	8374.5	8632.5	8620.4	8426.1	8316.8	8383.6	8401.8
27.5°	7870.6	7910.1	8146.9	8505.0	8899.6	9127.3	9090.9	8808.5	8574.9	8562.7	8568.8
30°	8468.6	8511.1	8735.7	9078.7	9467.3	9676.6	9600.8	9221.4	8860.1	8738.7	8738.7
32.5°	9099.9	9206.2	9433.8	9792.0	10095.5	10247.3	10131.9	9676.6	9197.0	9027.1	9018.0
35°	9922.5	9980.2	10204.8	10553.9	10781.5	10899.9	10678.3	10189.6	9637.2	9436.9	9409.5
37.5°	10726.9	10775.4	11036.5	11370.4	11646.6	11640.5	11340.0	10799.8	10183.5	9959.0	9940.7
40°	11549.5	11601.1	11898.5	12205.1	12481.3	12457.1	12092.8	11488.7	10833.1	10581.1	10629.8
42.5°	12262.8	12320.4	12657.4	13094.4	13343.3	13337.3	12915.4	12235.5	11552.5	11327.9	11370.4
45°	12912.3	12963.9	13355.5	13856.3	14220.5	14266.1	13804.7	13085.3	12384.2	12095.8	12108.0
47.5°	13370.7	13467.8	13877.6	14451.2	14946.0	15106.9	14654.6	13950.4	13143.0	12842.5	12860.7
50°	13719.7	13780.4	14226.6	14879.2	15504.5	15838.4	15474.1	14751.7	13901.9	13583.2	13625.6
52.5°	13762.2	13835.1	14320.8	15073.5	15874.8	16381.7	16202.6	15534.9	14675.8	14348.0	14439.1
55°	13416.2	13458.7	14038.4	14952.1	16020.5	16785.4	16831.0	16263.3	15413.4	15164.5	15225.3
57.5°	12429.7	12539.0	13273.5	14384.5	15820.2	17000.9	17301.4	16925.0	16160.1	15914.2	16011.4
60°	10811.9	10921.1	11658.7	13067.1	15064.4	16900.7	17689.9	17510.9	16837.0	16639.7	16691.3
62.5°	8471.6	8462.5	9376.2	11103.3	13561.9	16409.0	17978.3	18075.4	17504.8	17255.9	17334.8
65°	5490.9	5518.3	6401.5	8262.2	11294.5	15158.5	18042.0	18794.8	18160.4	17784.0	17841.8
66°	4416.4	4498.3	5248.1	6963.1	10138.0	14338.9	17850.8	19007.2	18360.7	17905.5	17932.7
67.5°	3259.9	3244.8	3861.0	5184.3	8095.3	12781.8	17252.9	19140.8	18588.4	18014.7	18026.9
70°	1860.6	1857.6	2076.2	2847.1	4759.4	8999.8	14542.3	18500.4	19049.8	18409.3	18375.9
72.5°	1359.8	1350.8	1381.1	1572.3	2322.1	4543.9	10031.8	16169.3	18813.0	18345.6	18251.5
75°	1141.3	1135.2	1129.2	1153.4	1302.1	2058.0	5324.0	11631.4	16324.1	17219.5	17122.3
77.5°	931.8	931.8	934.9	928.8	934.9	1083.6	2206.7	6234.6	9940.7	11097.2	11367.4
80°	728.5	725.4	777.0	755.8	707.2	695.1	977.3	2006.4	3299.4	3281.2	2707.5
82.5°	537.2	500.8	591.9	576.7	522.1	443.2	570.7	856.0	1101.8	716.4	531.2
85°	340.0	336.9	418.9	382.4	318.7	209.5	273.2	367.3	455.3	276.2	224.6
87.5°	60.7	57.7	133.6	97.1	97.1	60.7	75.9	100.1	148.8	103.2	75.9
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)