

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: P647148

Luminaire Tested: **GALN-SA9C-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52081.3 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

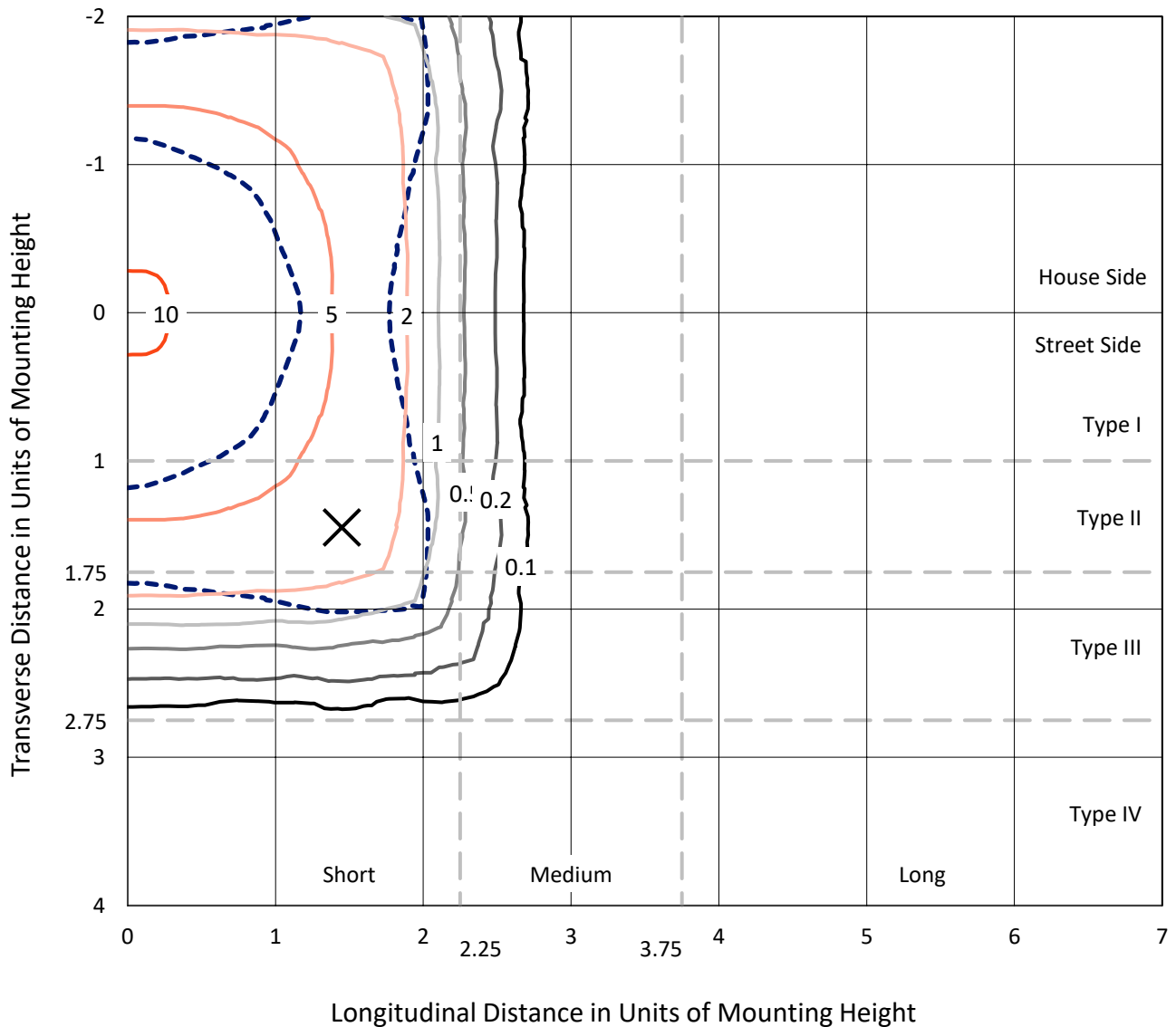
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

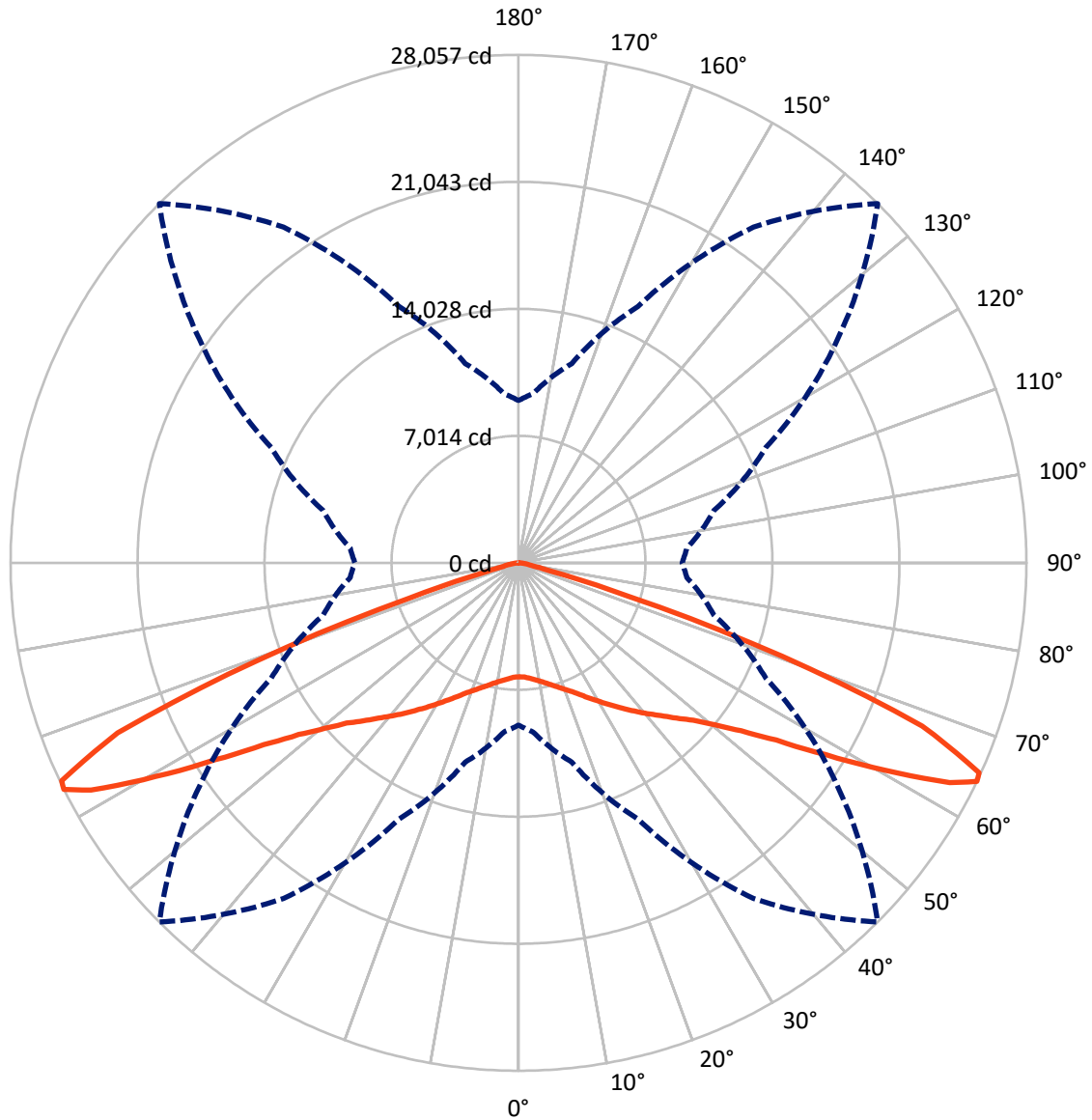
✕ Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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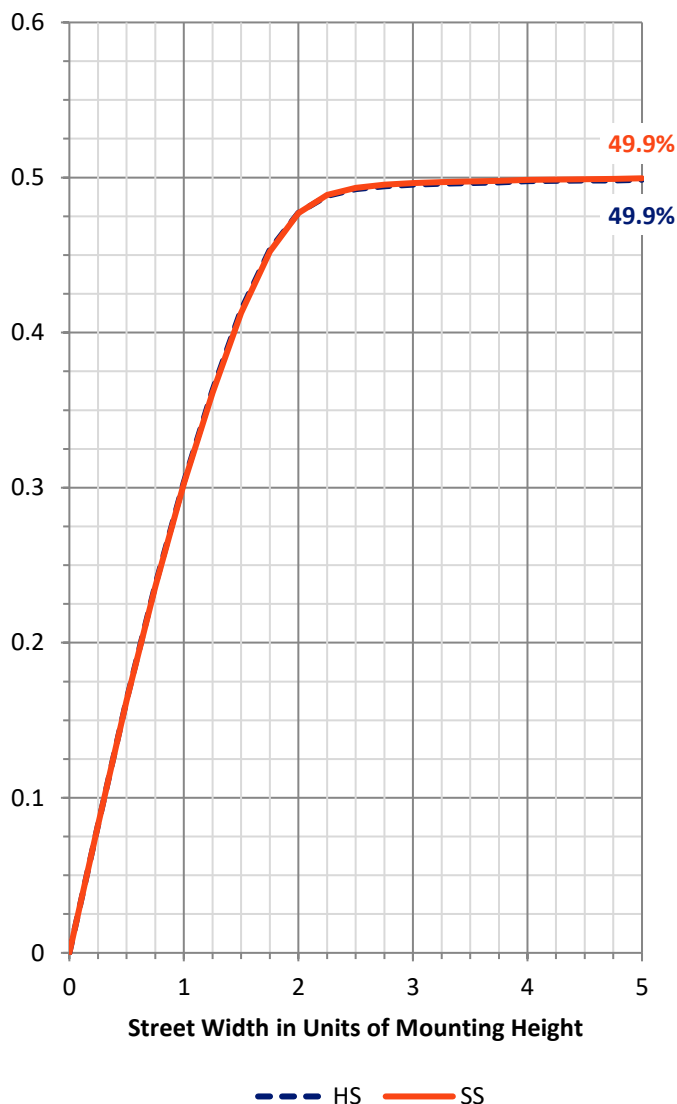
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26040.6	0.0	26040.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26040.6	0.0	26040.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	52081.3	0.0	52081.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.4	1.2
10°-20°	1994.8	3.8
20°-30°	3769.7	7.2
30°-40°	6243.0	12.0
40°-50°	9746.3	18.7
50°-60°	15067.6	28.9
60°-70°	12992.6	24.9
70°-80°	1472.4	2.8
80°-90°	176.4	0.3
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°	52081.3	100.0
0°-180°	52081.3	100.0

Coefficient of Utilization



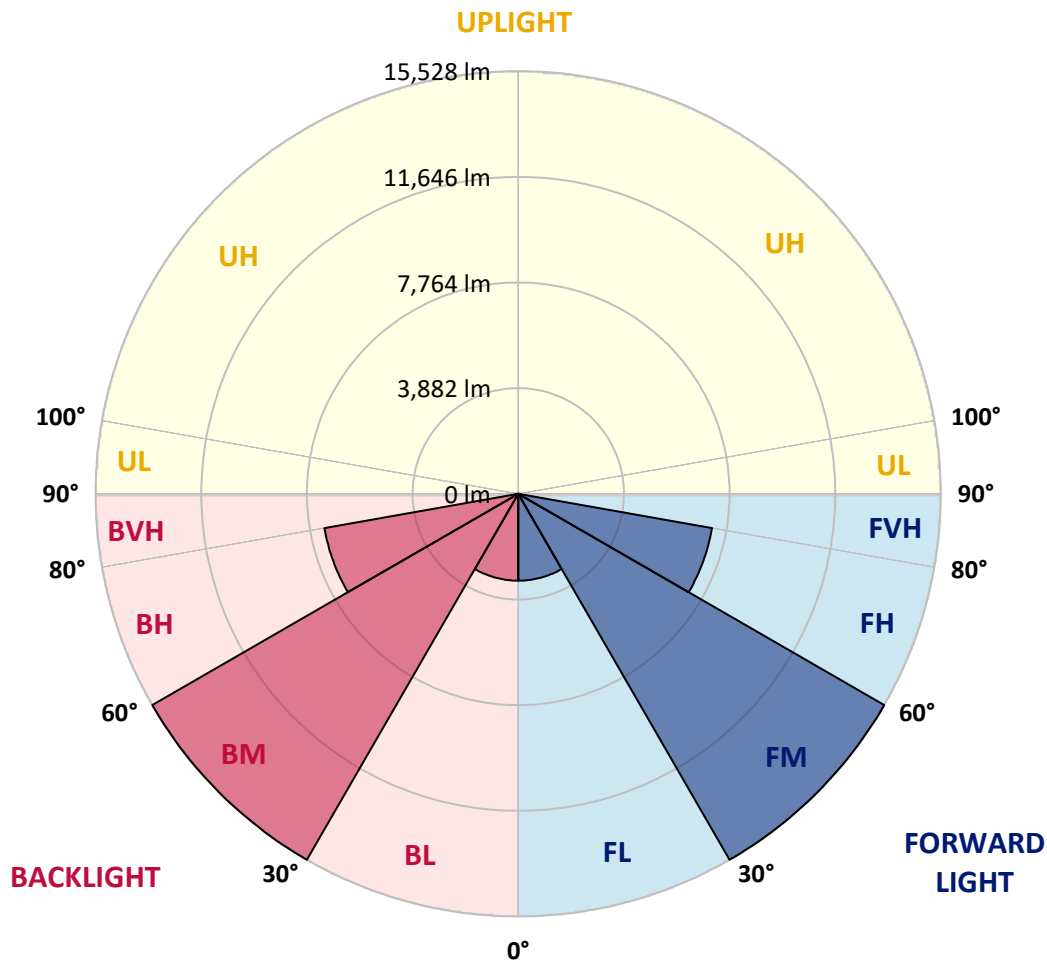
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3191.5	6.1			
FM (30°-60°)	15528.5	29.8			
FH (60°-80°)	7232.5	13.9			G3/7500
FVH (80°-90°)	88.2	0.2			G1/100
BL (0°-30°)	3191.5	6.1	B4/5000		
BM (30°-60°)	15528.5	29.8	B5		
BH (60°-80°)	7232.5	13.9	B5		G3/7500
BVH (80°-90°)	88.2	0.2			G1/100
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°	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9
2.5°	6319.7	6333.5	6322.5	6319.7	6316.9	6316.9	6316.9	6319.7	6330.8	6339.0	6333.5
5°	6399.7	6410.7	6405.3	6402.5	6399.7	6402.5	6397.0	6394.2	6402.5	6402.5	6399.7
7.5°	6499.1	6512.8	6507.3	6512.8	6515.6	6518.3	6504.5	6493.5	6490.8	6499.1	6493.5
10°	6634.2	6645.2	6648.0	6650.7	6656.3	6653.5	6636.9	6617.6	6614.9	6612.1	6609.4
12.5°	6785.9	6794.2	6796.9	6808.0	6816.2	6819.0	6799.7	6783.1	6755.6	6761.0	6750.0
15°	6957.0	6973.5	6970.7	6987.3	7009.3	7014.9	6995.6	6968.0	6943.2	6929.3	6921.1
17.5°	7166.6	7177.6	7172.1	7188.6	7216.2	7230.0	7213.5	7177.6	7152.8	7122.5	7105.9
20°	7414.9	7434.1	7439.7	7439.7	7464.5	7478.3	7453.5	7442.4	7403.8	7381.7	7368.0
22.5°	7696.2	7704.5	7721.0	7737.6	7762.4	7756.9	7748.6	7732.0	7696.2	7676.9	7654.8
25°	8013.5	8021.7	8063.1	8099.0	8107.3	8101.7	8090.7	8082.4	8049.3	8005.2	7988.6
27.5°	8383.1	8399.6	8454.8	8487.9	8487.9	8490.7	8468.6	8496.2	8424.5	8372.1	8366.5
30°	8846.5	8857.5	8904.4	8937.6	8921.0	8907.2	8901.7	8929.3	8852.0	8758.2	8736.2
32.5°	9304.4	9343.1	9384.4	9456.1	9398.2	9373.4	9367.9	9387.2	9298.9	9194.1	9163.8
35°	9795.4	9823.0	9900.3	9960.9	9908.6	9850.6	9875.4	9936.1	9831.3	9690.6	9685.1
37.5°	10338.9	10363.7	10463.0	10526.4	10487.8	10388.5	10429.9	10501.6	10396.8	10223.0	10187.1
40°	10904.4	10956.8	11080.9	11147.1	11083.7	10951.3	11028.5	11105.7	11012.0	10810.6	10730.5
42.5°	11538.8	11621.5	11800.8	11833.9	11712.6	11533.3	11668.4	11792.6	11726.4	11494.7	11464.3
45°	12280.8	12330.5	12551.2	12622.9	12454.6	12231.2	12399.4	12625.6	12576.0	12308.4	12250.5
47.5°	13111.2	13158.0	13387.0	13494.6	13282.2	12981.5	13284.9	13580.1	13549.7	13262.8	13235.3
50°	14093.1	14104.2	14421.5	14542.8	14330.4	14071.1	14341.4	14708.3	14587.0	14220.1	14214.6
52.5°	15169.0	15182.8	15582.8	15817.2	15698.6	15406.2	15726.2	15949.6	15640.7	15160.7	15124.8
55°	16101.4	16170.3	16716.5	17339.9	17502.7	17290.3	17386.8	17282.0	16520.7	15847.6	15742.8
57.5°	16482.0	16617.2	17447.5	18611.6	19670.8	19985.3	19240.5	18241.9	16871.0	15919.3	15817.2
60°	15552.4	15698.6	16986.9	19196.4	21899.7	23265.2	21171.5	18404.7	16073.7	14735.9	14575.9
62.5°	12454.6	12496.0	14391.1	17819.9	23199.0	26735.4	21985.2	17017.2	13753.9	11936.1	11872.6
64°	8962.4	9387.2	11395.4	15624.1	22630.7	28056.7	21516.3	15072.4	11171.9	9332.0	9034.1
65°	6703.2	6819.0	9185.8	13342.9	21629.4	27957.4	20606.0	13213.2	9252.0	7141.7	6810.8
67.5°	2532.3	2546.1	3390.2	6650.7	15397.9	24054.1	15726.2	7188.6	3897.8	2819.2	2717.1
70°	1051.0	1070.3	1244.1	2237.1	6617.6	15444.8	7583.1	2593.0	1426.2	1155.8	1139.3
72.5°	769.6	780.7	833.0	993.1	2035.8	6341.8	2493.7	1100.7	835.9	747.5	739.3
75°	604.1	609.6	648.2	731.0	948.9	1757.1	1037.2	755.8	637.2	573.8	568.2
77.5°	460.6	474.5	502.1	557.2	637.2	833.0	686.8	565.5	491.0	438.6	430.3
80°	317.2	333.8	386.2	408.3	427.6	540.7	468.9	427.6	383.4	320.0	300.7
82.5°	195.8	206.9	259.3	278.6	270.4	303.4	300.7	306.2	273.1	198.6	184.8
85°	102.1	107.6	140.7	146.2	135.1	124.1	154.5	179.3	168.3	113.1	110.3
87.5°	22.1	24.8	30.4	27.6	30.4	30.4	38.6	57.9	60.7	38.6	35.9
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)