

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: P647643

Luminaire Tested: **GALN-SA9D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647643
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-SA9D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57307.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

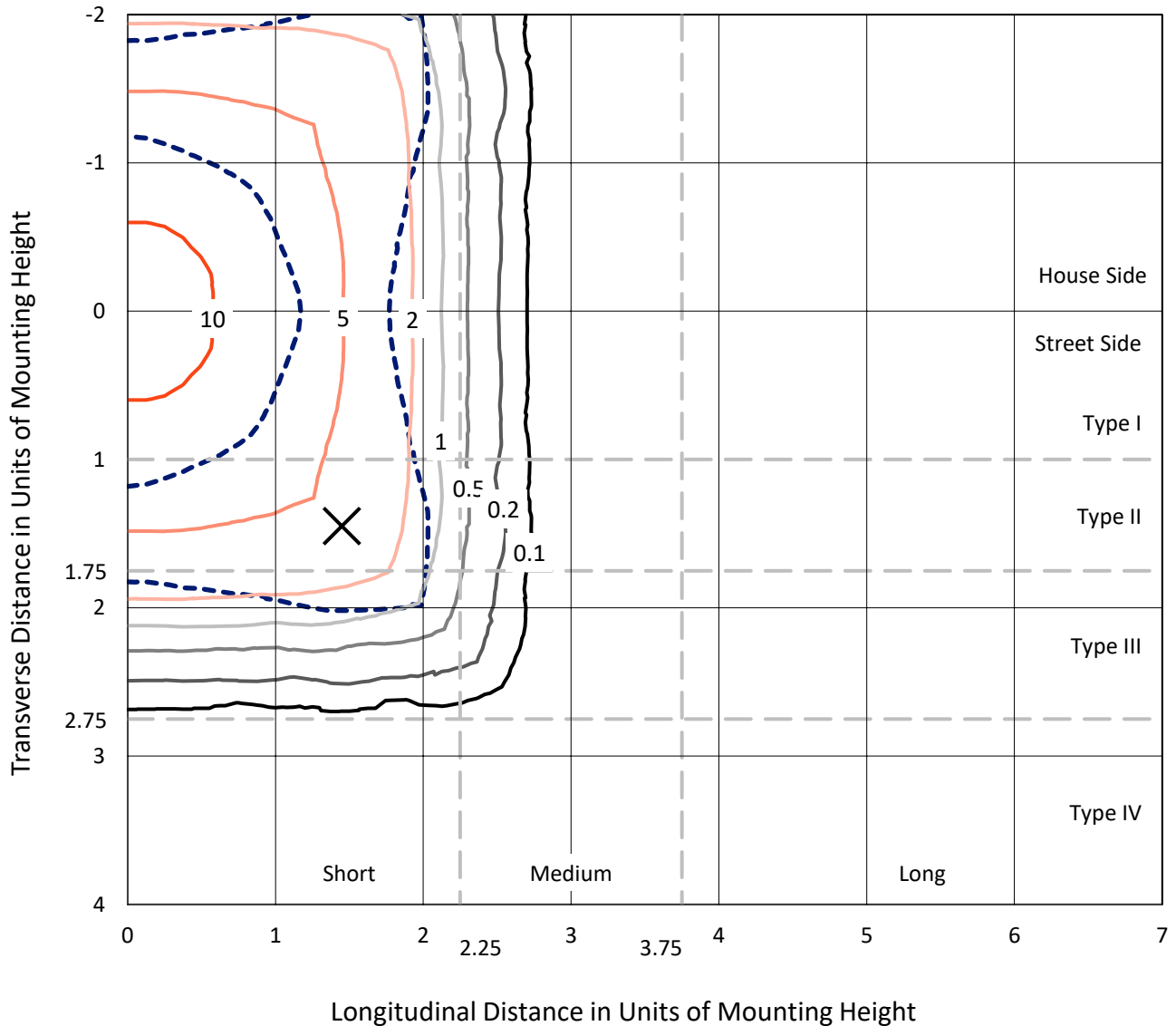
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

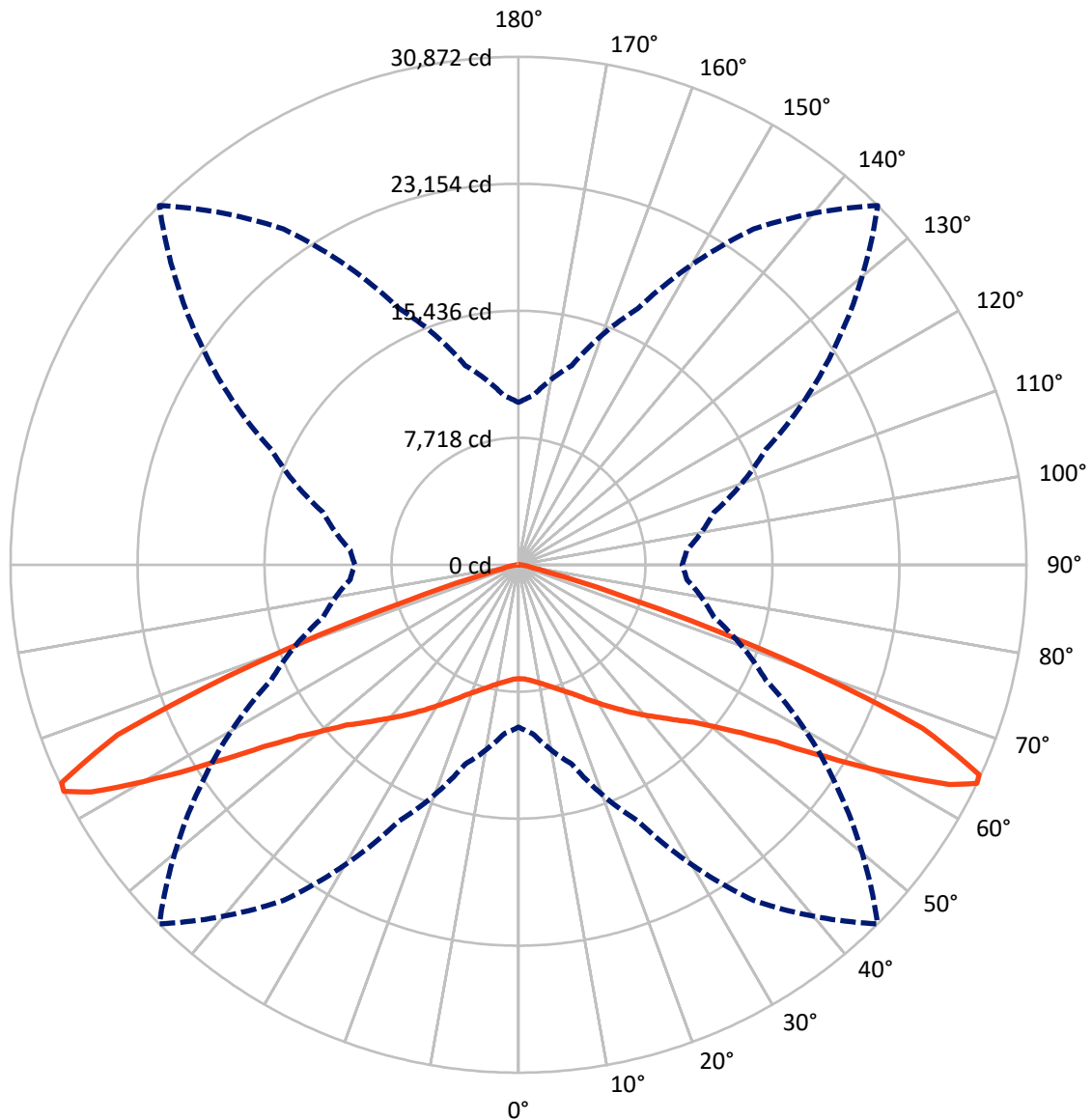
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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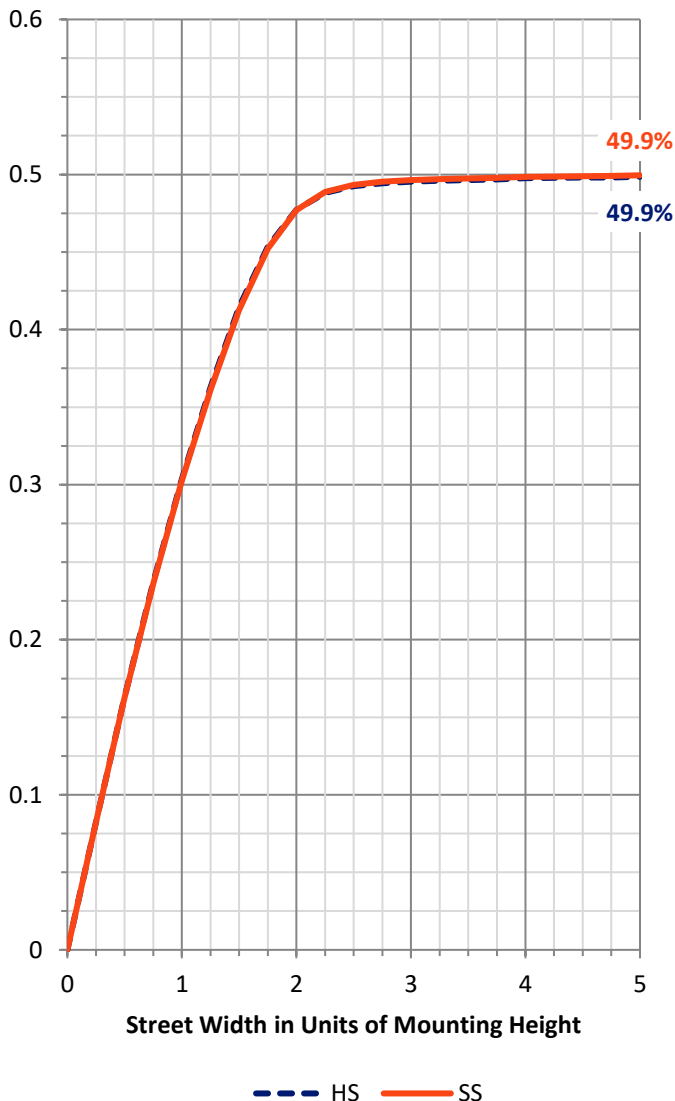
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28653.9	0.0	28653.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28653.9	0.0	28653.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	57307.8	0.0	57307.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.5	1.2
10°-20°	2195.0	3.8
20°-30°	4148.0	7.2
30°-40°	6869.5	12.0
40°-50°	10724.4	18.7
50°-60°	16579.7	28.9
60°-70°	14296.5	24.9
70°-80°	1620.2	2.8
80°-90°	194.1	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°	57307.8	100.0
0°-180°	57307.8	100.0

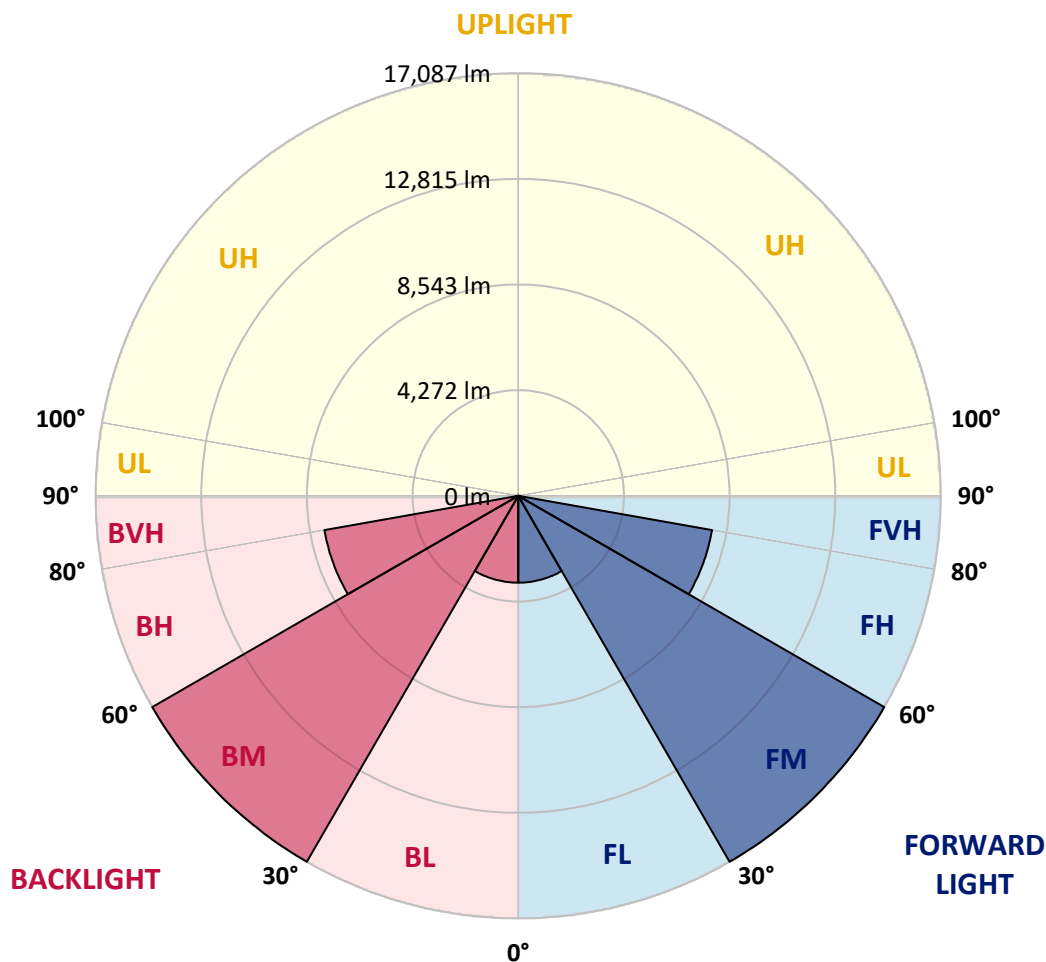


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3511.7	6.1			
FM (30°-60°)	17086.8	29.8			
FH (60°-80°)	7958.3	13.9			G4/12000
FVH (80°-90°)	97.1	0.2			G1/100
BL (0°-30°)	3511.7	6.1	B4/5000		
BM (30°-60°)	17086.8	29.8	B5		
BH (60°-80°)	7958.3	13.9	B5		G4/12000
BVH (80°-90°)	97.1	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-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6926.6	6926.6	6926.6	6926.6	6926.6	6926.6	6926.6	6926.6	6926.6	6926.6	6926.6
2.5°	6953.9	6969.1	6957.0	6953.9	6950.9	6950.9	6950.9	6953.9	6966.0	6975.2	6969.1
5°	7042.0	7054.1	7048.0	7045.0	7042.0	7045.0	7038.9	7035.9	7045.0	7045.0	7042.0
7.5°	7151.2	7166.4	7160.3	7166.4	7169.5	7172.4	7157.3	7145.2	7142.1	7151.2	7145.2
10°	7300.0	7312.1	7315.1	7318.2	7324.3	7321.2	7303.0	7281.7	7278.7	7275.6	7272.7
12.5°	7466.9	7476.0	7479.1	7491.2	7500.3	7503.3	7482.0	7463.9	7433.5	7439.6	7427.5
15°	7655.1	7673.3	7670.3	7688.5	7712.8	7718.8	7697.6	7667.2	7639.9	7624.7	7615.6
17.5°	7885.7	7897.9	7891.9	7910.0	7940.4	7955.6	7937.3	7897.9	7870.6	7837.2	7819.0
20°	8158.9	8180.2	8186.3	8186.3	8213.6	8228.8	8201.5	8189.3	8146.8	8122.5	8107.3
22.5°	8468.5	8477.6	8495.9	8514.1	8541.4	8535.3	8526.2	8508.0	8468.5	8447.3	8423.0
25°	8817.6	8826.8	8872.3	8911.7	8920.8	8914.8	8902.6	8893.5	8857.1	8808.5	8790.3
27.5°	9224.4	9242.5	9303.3	9339.7	9339.7	9342.8	9318.4	9348.8	9269.9	9212.2	9206.1
30°	9734.3	9746.4	9798.0	9834.5	9816.2	9801.0	9795.0	9825.3	9740.4	9637.2	9612.9
32.5°	10238.1	10280.6	10326.2	10405.1	10341.3	10314.1	10308.0	10329.2	10232.1	10116.8	10083.3
35°	10778.5	10808.8	10893.8	10960.6	10902.9	10839.1	10866.5	10933.3	10817.9	10663.1	10657.0
37.5°	11376.4	11403.7	11513.0	11582.8	11540.3	11431.0	11476.6	11555.5	11440.1	11248.9	11209.4
40°	11998.6	12056.3	12192.9	12265.8	12195.9	12050.2	12135.2	12220.2	12117.0	11895.4	11807.4
42.5°	12696.7	12787.8	12985.1	13021.5	12887.9	12690.7	12839.4	12976.0	12903.1	12648.2	12614.8
45°	13513.2	13567.9	13810.7	13889.6	13704.5	13458.6	13643.8	13892.7	13838.0	13543.6	13479.9
47.5°	14426.9	14478.5	14730.4	14848.8	14615.1	14284.3	14618.1	14942.9	14909.5	14593.9	14563.5
50°	15507.5	15519.6	15868.7	16002.2	15768.5	15483.2	15780.7	16184.4	16050.8	15647.1	15641.1
52.5°	16691.2	16706.4	17146.5	17404.5	17274.0	16952.3	17304.4	17550.2	17210.3	16682.1	16642.7
55°	17717.2	17793.0	18394.1	19080.1	19259.1	19025.4	19131.7	19016.3	18178.5	17438.0	17322.6
57.5°	18136.1	18284.8	19198.5	20479.4	21644.9	21990.9	21171.4	20072.6	18564.1	17516.9	17404.5
60°	17113.2	17274.0	18691.5	21122.8	24097.5	25600.0	23296.1	20251.7	17686.8	16214.7	16038.7
62.5°	13704.5	13750.0	15835.3	19608.2	25527.1	29418.3	24191.5	18724.9	15134.1	13133.8	13064.0
64°	9861.7	10329.2	12538.9	17192.1	24901.8	30872.3	23675.5	16585.0	12293.0	10268.5	9940.7
65°	7375.9	7503.3	10107.6	14681.9	23800.0	30763.0	22673.9	14539.2	10180.5	7858.4	7494.2
67.5°	2786.5	2801.6	3730.4	7318.2	16943.2	26468.0	17304.4	7910.0	4288.9	3102.1	2989.8
70°	1156.5	1177.7	1368.9	2461.7	7281.7	16994.8	8344.1	2853.2	1569.3	1271.8	1253.6
72.5°	846.9	859.0	916.7	1092.8	2240.1	6978.2	2743.9	1211.1	919.7	822.5	813.5
75°	664.8	670.8	713.3	804.4	1044.1	1933.5	1141.3	831.7	701.2	631.3	625.3
77.5°	506.9	522.1	552.4	613.2	701.2	916.7	755.8	622.3	540.3	482.6	473.5
80°	349.1	367.3	424.9	449.2	470.5	594.9	516.0	470.5	421.9	352.1	330.8
82.5°	215.5	227.6	285.3	306.5	297.5	333.9	330.8	336.9	300.5	218.5	203.3
85°	112.3	118.4	154.8	160.9	148.7	136.6	170.0	197.3	185.2	124.4	121.4
87.5°	24.3	27.3	33.4	30.4	33.4	33.4	42.5	63.7	66.8	42.5	39.5
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)