

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: P457079

Luminaire Tested: **GALN-SA8B-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33718 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

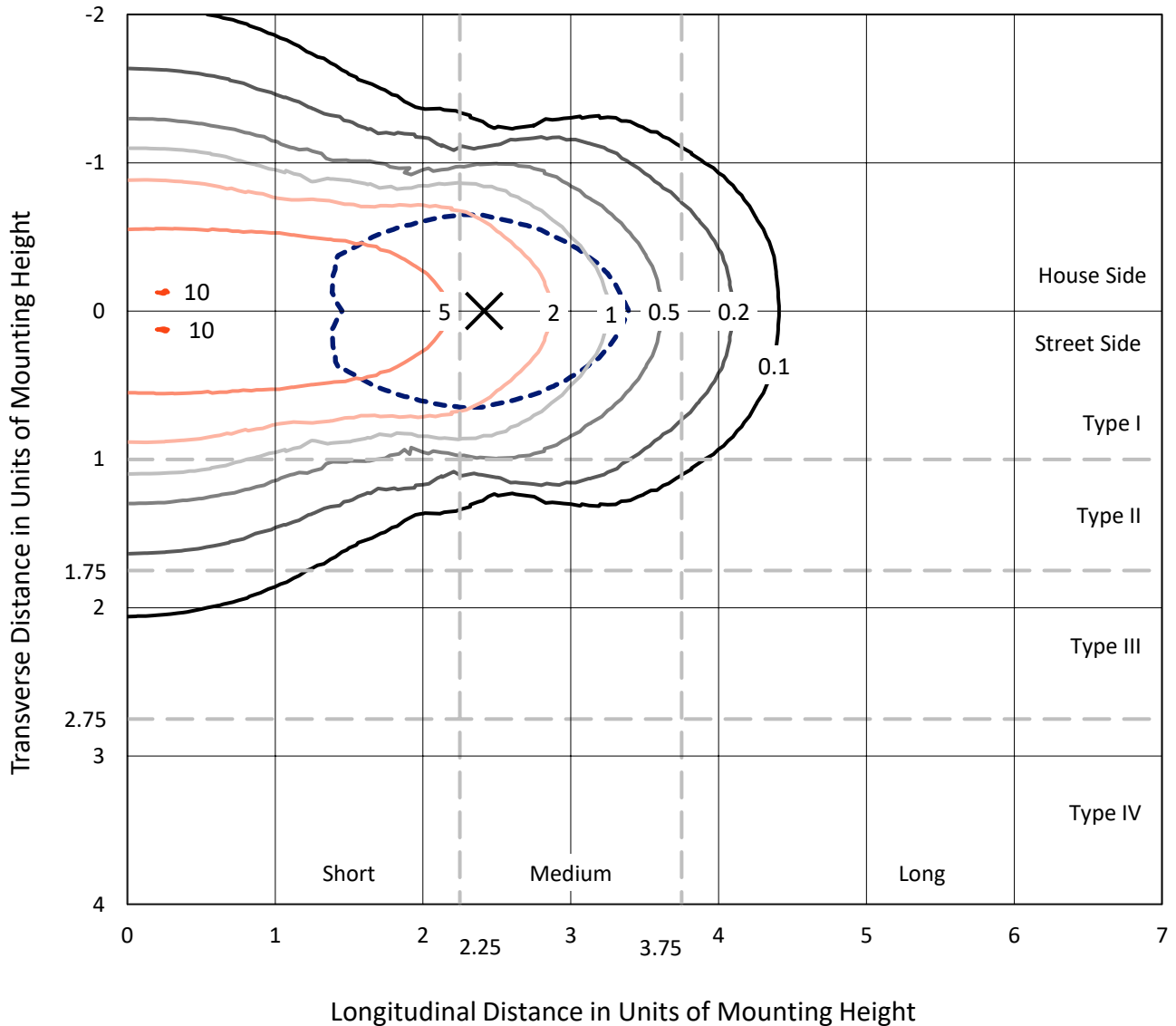
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

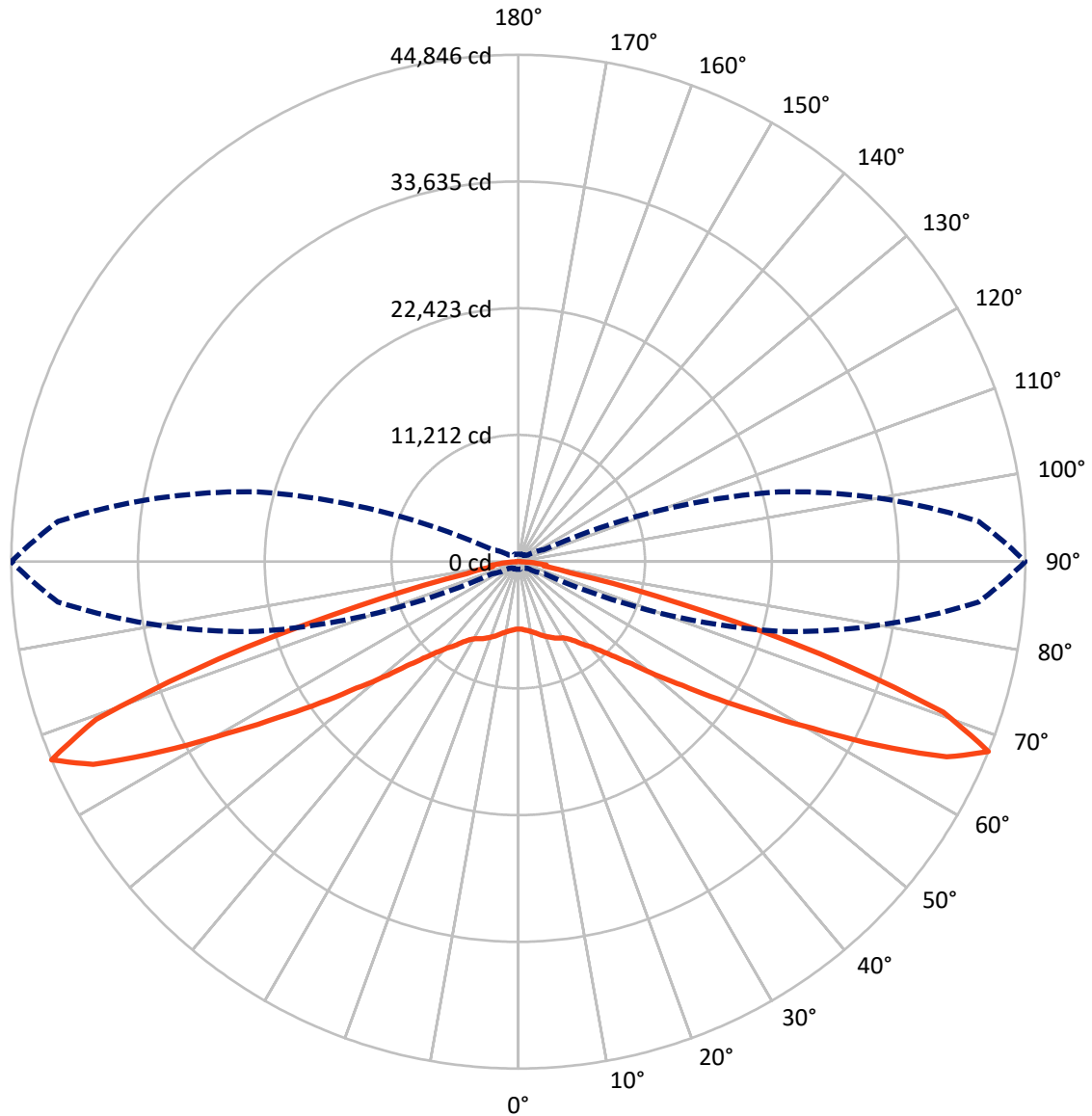
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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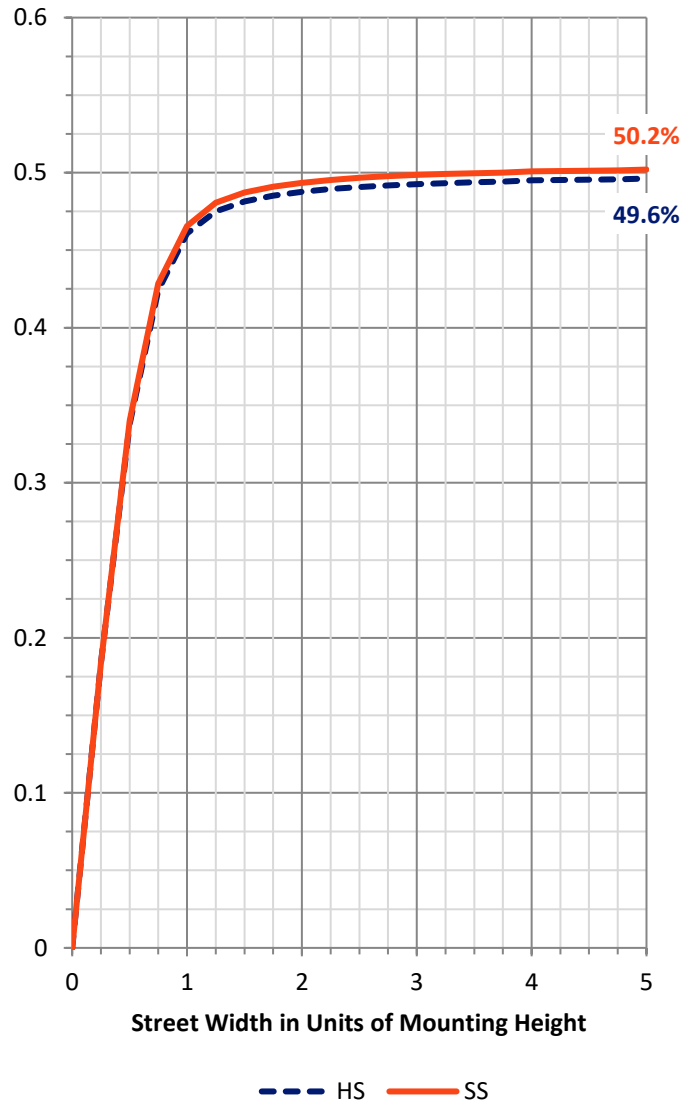
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16859.0	0.0	16859.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16859.0	0.0	16859.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33718.0	0.0	33718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.1	1.8
10°-20°	1904.1	5.6
20°-30°	3186.9	9.5
30°-40°	4317.4	12.8
40°-50°	5468.8	16.2
50°-60°	6831.8	20.3
60°-70°	8030.5	23.8
70°-80°	3072.0	9.1
80°-90°	311.2	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°	33718.0	100.0
0°-180°	33718.0	100.0

Coefficient of Utilization



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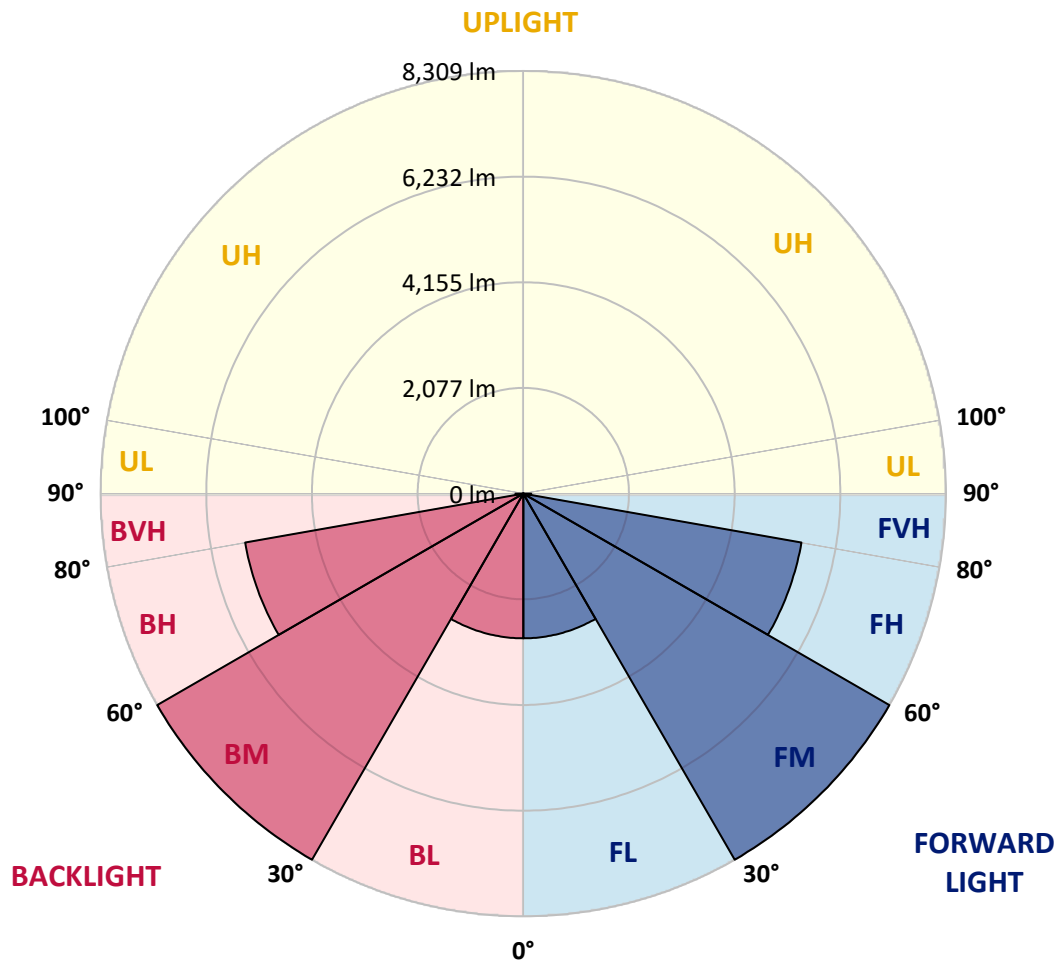
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2843.1	8.4			
FM (30°-60°)	8309.0	24.6			
FH (60°-80°)	5551.3	16.5			G3/7500
FVH (80°-90°)	155.6	0.5			G2/225
BL (0°-30°)	2843.1	8.4	B4/5000		
BM (30°-60°)	8309.0	24.6	B4/8500		
BH (60°-80°)	5551.3	16.5	B5		G5
BVH (80°-90°)	155.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5969.1	5969.1	5969.1	5969.1	5969.1	5969.1	5969.1	5969.1	5969.1	5969.1	5969.1
2.5°	6045.7	6042.0	6043.8	6042.0	6047.6	6043.8	6021.4	6002.7	5987.8	5989.7	5984.1
5°	6174.5	6176.4	6178.3	6168.9	6182.0	6174.5	6139.0	6109.2	6079.3	6068.1	6064.4
7.5°	6280.9	6290.3	6295.9	6305.2	6327.6	6327.6	6308.9	6266.0	6200.7	6163.3	6161.4
10°	6387.4	6394.8	6411.6	6441.5	6478.9	6514.3	6506.9	6449.0	6365.0	6301.5	6286.5
12.5°	6424.7	6434.0	6490.1	6575.9	6660.0	6729.0	6729.0	6682.4	6574.1	6477.0	6449.0
15°	6294.0	6310.8	6411.6	6594.6	6814.9	6966.2	6999.8	6934.4	6818.7	6669.3	6635.7
17.5°	6034.5	6075.6	6223.1	6493.8	6859.7	7173.4	7270.5	7238.8	7089.4	6899.0	6859.7
20°	5756.3	5801.1	5957.9	6316.4	6822.4	7294.8	7576.7	7584.2	7399.3	7123.0	7065.1
22.5°	5450.1	5483.7	5685.3	6105.4	6710.4	7322.8	7840.0	7968.8	7718.6	7347.1	7264.9
25°	5106.5	5143.9	5354.9	5808.6	6499.4	7291.0	8080.8	8364.6	8052.8	7586.0	7481.5
27.5°	4777.9	4792.9	5018.8	5480.0	6221.2	7208.9	8258.2	8728.7	8422.5	7784.0	7651.4
30°	4462.4	4497.9	4697.6	5153.2	5901.9	7048.3	8411.3	9143.2	8820.2	7991.2	7821.3
32.5°	4128.2	4171.1	4387.7	4848.9	5582.6	6807.5	8504.7	9596.9	9374.7	8327.3	8146.2
35°	3807.0	3835.0	4053.5	4501.6	5270.8	6527.4	8521.5	10108.5	10089.8	8837.0	8596.2
37.5°	3478.4	3519.5	3739.8	4169.2	4940.4	6230.5	8437.4	10651.8	10952.4	9544.6	9285.1
40°	3162.9	3198.4	3414.9	3848.1	4565.1	5868.3	8237.7	11148.5	11958.8	10272.8	9905.0
42.5°	2819.3	2828.7	3065.8	3506.4	4197.3	5448.2	7950.1	11591.0	13080.9	11249.3	10791.9
45°	2429.1	2453.4	2673.7	3106.9	3775.3	4977.7	7559.9	11956.9	14503.7	12603.0	11979.3
47.5°	2038.9	2059.4	2261.1	2688.6	3314.1	4438.1	6958.7	12278.1	15963.8	14322.6	13504.8
50°	1658.0	1669.2	1833.5	2212.5	2795.1	3870.5	6213.7	12380.8	17614.3	16757.3	15713.6
52.5°	1310.7	1327.5	1452.6	1749.5	2240.5	3200.2	5409.0	12126.8	19541.1	19643.8	18172.5
55°	1062.4	1068.0	1161.3	1379.8	1751.3	2498.2	4438.1	11419.2	21613.6	23342.6	21466.1
57.5°	914.9	918.6	970.9	1092.3	1348.1	1883.9	3442.9	10080.5	23475.1	27676.1	25263.8
60°	830.9	832.7	862.6	933.6	1068.0	1445.1	2466.4	8191.0	25312.3	32498.8	29983.8
62.5°	778.6	778.6	799.1	838.3	903.7	1109.1	1786.8	5909.4	26570.8	37392.5	35801.7
65°	728.2	728.2	743.1	771.1	806.6	907.4	1320.0	3853.7	26539.0	40956.8	41653.3
67.5°	670.3	670.3	681.5	709.5	730.0	780.5	1019.4	2524.3	23839.2	40878.4	44846.0
70°	601.2	601.2	616.1	640.4	657.2	689.0	804.7	1727.1	17513.4	34903.7	39883.2
72.5°	532.1	534.0	543.3	567.6	580.7	599.3	668.4	1209.9	10743.3	23766.4	27887.1
75°	455.6	459.3	468.6	492.9	504.1	511.6	563.9	862.6	5435.1	12813.9	14589.6
77.5°	367.8	375.3	380.9	407.0	414.5	425.7	464.9	623.6	2386.2	4604.3	4645.4
80°	268.9	278.2	295.0	319.3	324.9	332.3	354.8	442.5	1081.1	2102.4	2283.5
82.5°	197.9	211.0	190.4	222.2	222.2	212.9	250.2	296.9	496.7	2081.8	2490.7
85°	108.3	110.2	99.0	113.9	121.4	119.5	132.6	145.6	240.9	1389.1	1432.1
87.5°	26.1	28.0	29.9	35.5	42.9	42.9	46.7	41.1	78.4	450.0	257.7
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)