

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: P533452

Luminaire Tested: **GALN-SA8D-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38958 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

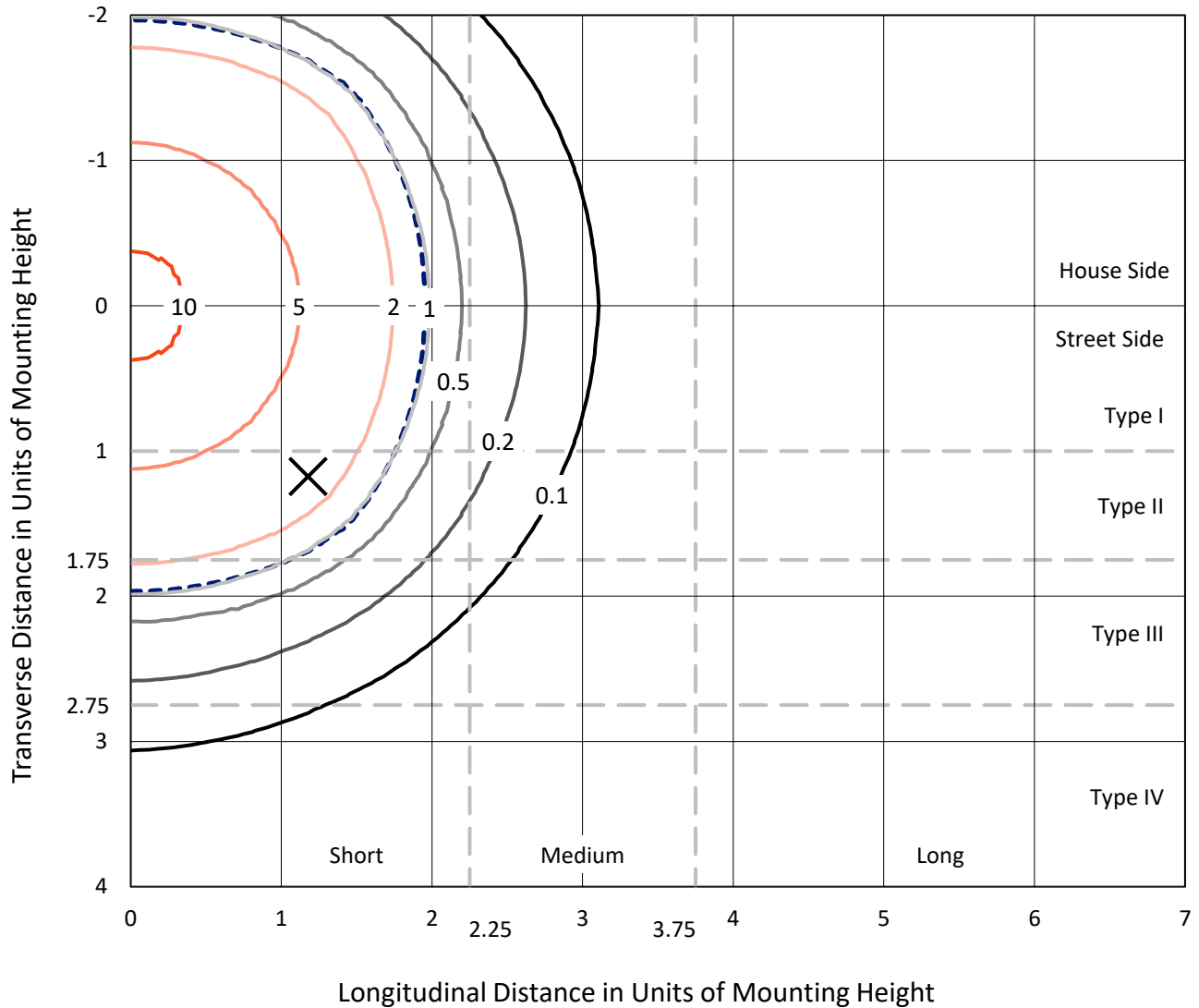
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533452
 CATALOG NUMBER: GALN-SA8D-827-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

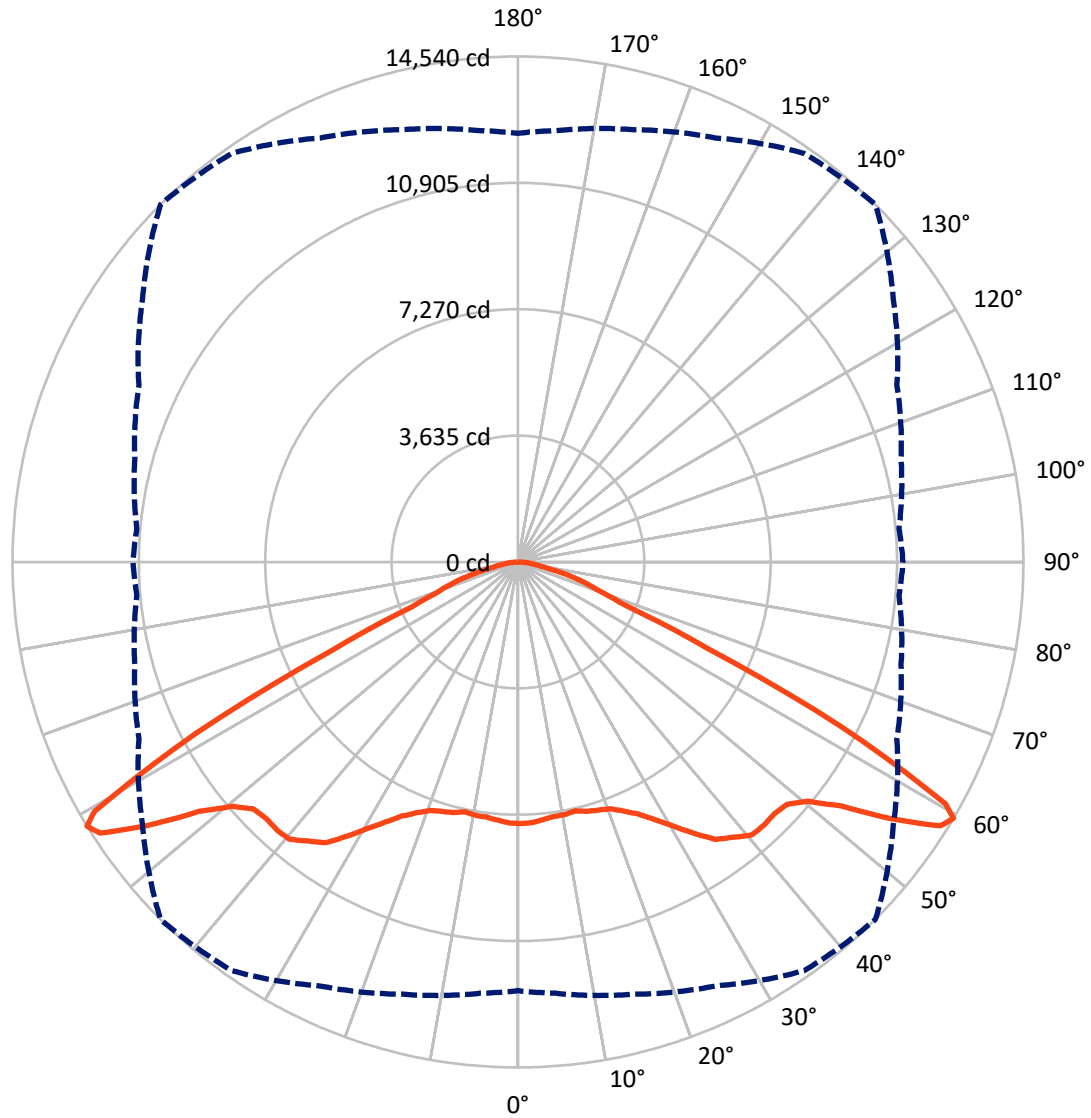
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type V - Short - N/A

REPORT NUMBER: P533452
CATALOG NUMBER: GALN-SA8D-827-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

REPORT NUMBER: P533452

CATALOG NUMBER: GALN-SA8D-827-U-5WQ-GRSWH

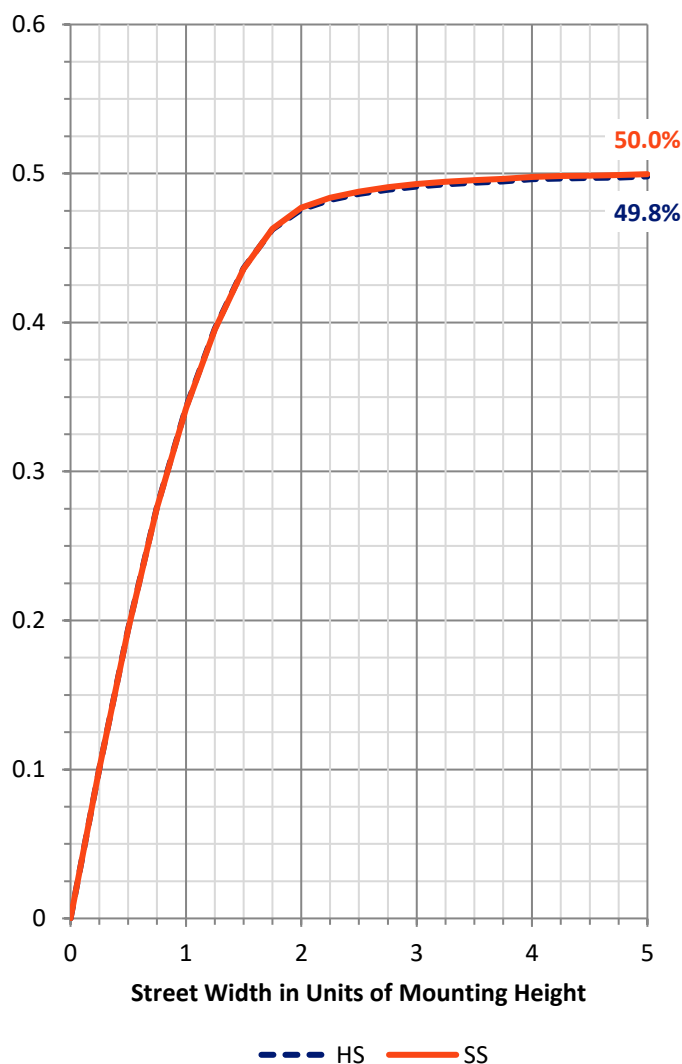
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19479.0	0.0	19479.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19479.0	0.0	19479.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38958.0	0.0	38958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.4	1.8
10°-20°	2109.5	5.4
20°-30°	3683.4	9.5
30°-40°	5882.9	15.1
40°-50°	8013.7	20.6
50°-60°	10836.7	27.8
60°-70°	5942.9	15.3
70°-80°	1520.4	3.9
80°-90°	259.3	0.7
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°	38958.0	100.0
0°-180°	38958.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533452

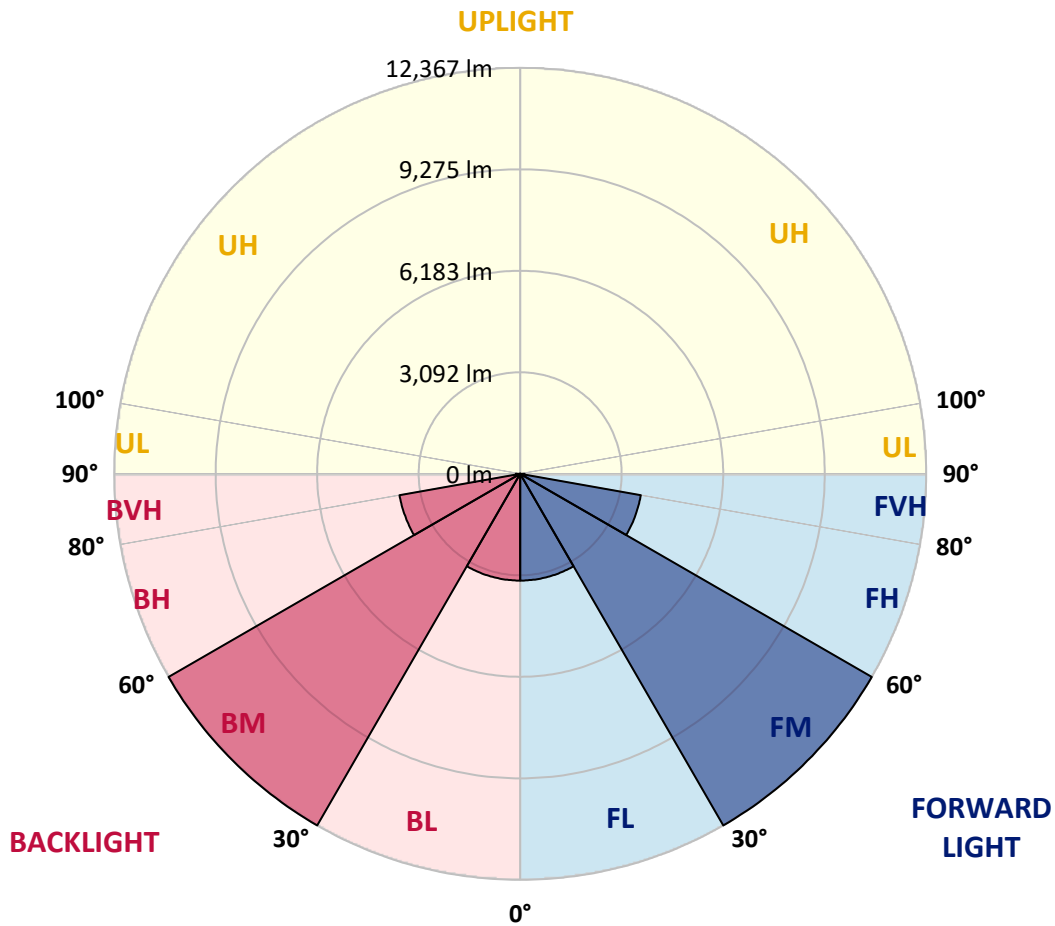
CATALOG NUMBER: GALN-SA8D-827-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3251.1	8.3			
FM (30°-60°)	12366.6	31.7			
FH (60°-80°)	3731.6	9.6			G2/5000
FVH (80°-90°)	129.6	0.3			G2/225
BL (0°-30°)	3251.1	8.3	B4/5000		
BM (30°-60°)	12366.6	31.7	B5		
BH (60°-80°)	3731.6	9.6	B4/5000		G2/5000
BVH (80°-90°)	129.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





REPORT NUMBER: P533452

CATALOG NUMBER: GALN-SA8D-827-U-5WQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7524.8	7524.8	7524.8	7524.8	7524.8	7524.8	7524.8	7524.8	7524.8	7524.8	7524.8
2.5°	7479.9	7534.8	7494.9	7529.8	7524.8	7509.8	7484.9	7469.9	7449.9	7479.9	7430.0
5°	7449.9	7494.9	7539.8	7479.9	7479.9	7449.9	7434.9	7405.0	7405.0	7400.0	7395.0
7.5°	7499.9	7454.9	7434.9	7444.9	7454.9	7390.0	7434.9	7375.0	7325.1	7360.0	7400.0
10°	7454.9	7474.9	7400.0	7434.9	7380.0	7390.0	7360.0	7400.0	7345.1	7345.1	7345.1
12.5°	7499.9	7444.9	7469.9	7444.9	7430.0	7345.1	7385.0	7340.1	7335.1	7385.0	7340.1
15°	7589.7	7499.9	7479.9	7430.0	7444.9	7444.9	7405.0	7410.0	7355.1	7385.0	7395.0
17.5°	7559.8	7509.8	7494.9	7434.9	7484.9	7499.9	7425.0	7375.0	7410.0	7405.0	7400.0
20°	7584.7	7604.7	7589.7	7599.7	7619.7	7579.7	7509.8	7439.9	7395.0	7459.9	7454.9
22.5°	7744.5	7724.6	7714.6	7704.6	7739.5	7779.5	7684.6	7574.8	7574.8	7619.7	7639.7
25°	7874.3	7869.4	7864.4	7909.3	8029.1	8029.1	7909.3	7769.5	7734.5	7764.5	7739.5
27.5°	8064.1	8119.0	8099.0	8178.9	8353.7	8393.6	8233.9	8069.1	7974.2	7939.3	7984.2
30°	8498.5	8433.6	8448.6	8533.5	8688.2	8818.1	8573.4	8398.6	8268.8	8263.8	8283.8
32.5°	8788.1	8838.0	8883.0	8962.9	9207.5	9307.4	9012.8	8728.2	8648.3	8603.4	8618.3
35°	9367.3	9322.4	9312.4	9392.3	9637.0	9801.7	9432.2	9182.6	9077.7	9177.6	9177.6
37.5°	9916.6	9791.8	9696.9	9801.7	10026.4	10046.4	9731.8	9597.0	9542.1	9656.9	9651.9
40°	10176.2	10166.2	9946.5	10006.5	10306.1	10336.0	10041.4	9881.6	9871.6	10021.4	10171.2
42.5°	10445.9	10351.0	10131.3	10171.2	10356.0	10366.0	10086.4	10041.4	10151.3	10296.1	10306.1
45°	10490.8	10410.9	10271.1	10171.2	10306.1	10336.0	10171.2	10201.2	10211.2	10386.0	10386.0
47.5°	10580.7	10570.7	10490.8	10415.9	10440.9	10415.9	10311.1	10356.0	10505.8	10590.7	10550.7
50°	10830.4	10725.5	10805.4	10740.5	10745.5	10815.4	10720.5	10765.4	10735.5	10660.6	10610.6
52.5°	11379.6	11329.7	11399.6	11444.5	11494.5	11654.2	11544.4	11304.7	11080.0	10880.3	10875.3
55°	12183.5	12218.5	12353.3	12583.0	12777.7	13032.4	12503.1	11928.9	11569.4	11254.8	11274.8
57.5°	12942.5	12917.5	13102.3	13626.6	14195.8	14325.6	13287.0	12468.1	11883.9	11684.2	11599.3
59°	12333.3	12453.2	12872.6	13456.8	14350.6	14540.3	13182.2	12028.7	11409.6	11005.1	11075.0
60°	11374.6	11419.6	11794.0	12607.9	13816.3	14140.9	12478.1	11349.6	10525.8	10291.1	10395.9
62.5°	8039.1	8004.2	8273.8	8937.9	10021.4	10460.9	9277.5	8483.5	7964.2	7704.6	7764.5
65°	4274.2	4434.0	4543.9	4958.3	5532.5	5996.9	5507.6	5163.0	4873.4	4658.7	4653.7
67.5°	2886.1	2866.1	2891.1	2986.0	3180.7	3310.5	3300.5	3125.8	3100.8	3060.9	3105.8
70°	2431.7	2421.7	2376.8	2376.8	2416.7	2446.7	2481.6	2501.6	2541.6	2591.5	2586.5
72.5°	1972.3	1947.4	1917.4	1902.4	1952.4	1967.3	2012.3	2032.3	2067.2	2062.2	2107.2
75°	1303.2	1303.2	1338.2	1378.1	1393.1	1423.1	1428.1	1488.0	1488.0	1498.0	1458.0
77.5°	729.0	709.0	734.0	774.0	808.9	863.8	918.8	963.7	988.7	978.7	978.7
80°	424.4	424.4	449.4	494.3	539.3	589.2	629.1	664.1	689.1	679.1	659.1
82.5°	264.6	264.6	289.6	334.5	369.5	399.5	454.4	499.3	529.3	519.3	494.3
85°	134.8	134.8	164.8	194.7	239.7	259.6	254.7	234.7	229.7	204.7	204.7
87.5°	35.0	35.0	49.9	54.9	44.9	49.9	49.9	49.9	49.9	49.9	54.9
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)