

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: P528535

Luminaire Tested: **GALN-SA3C-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10599 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

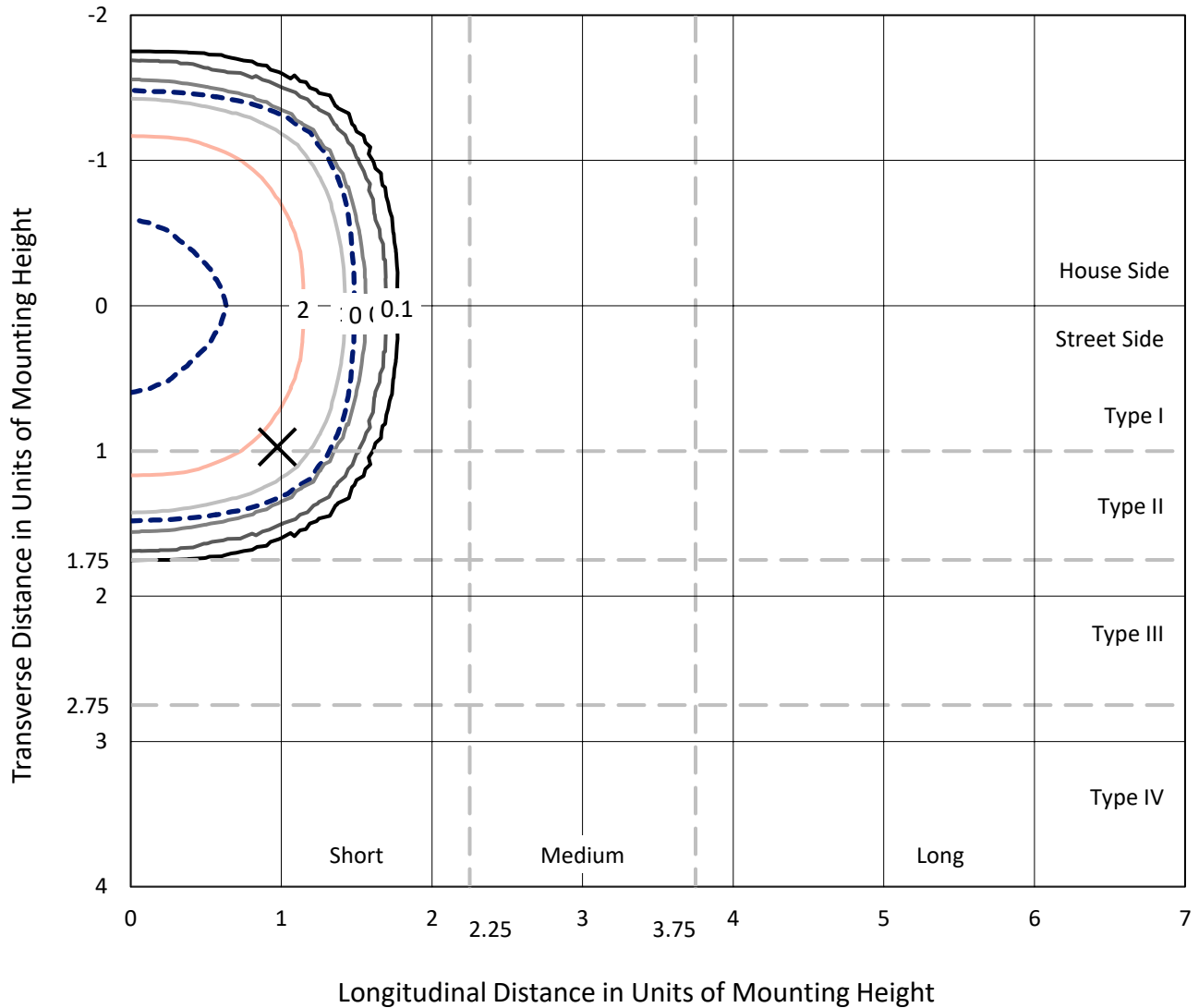
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528535
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Iso-Footcandle Lines of Horizontal Illumination

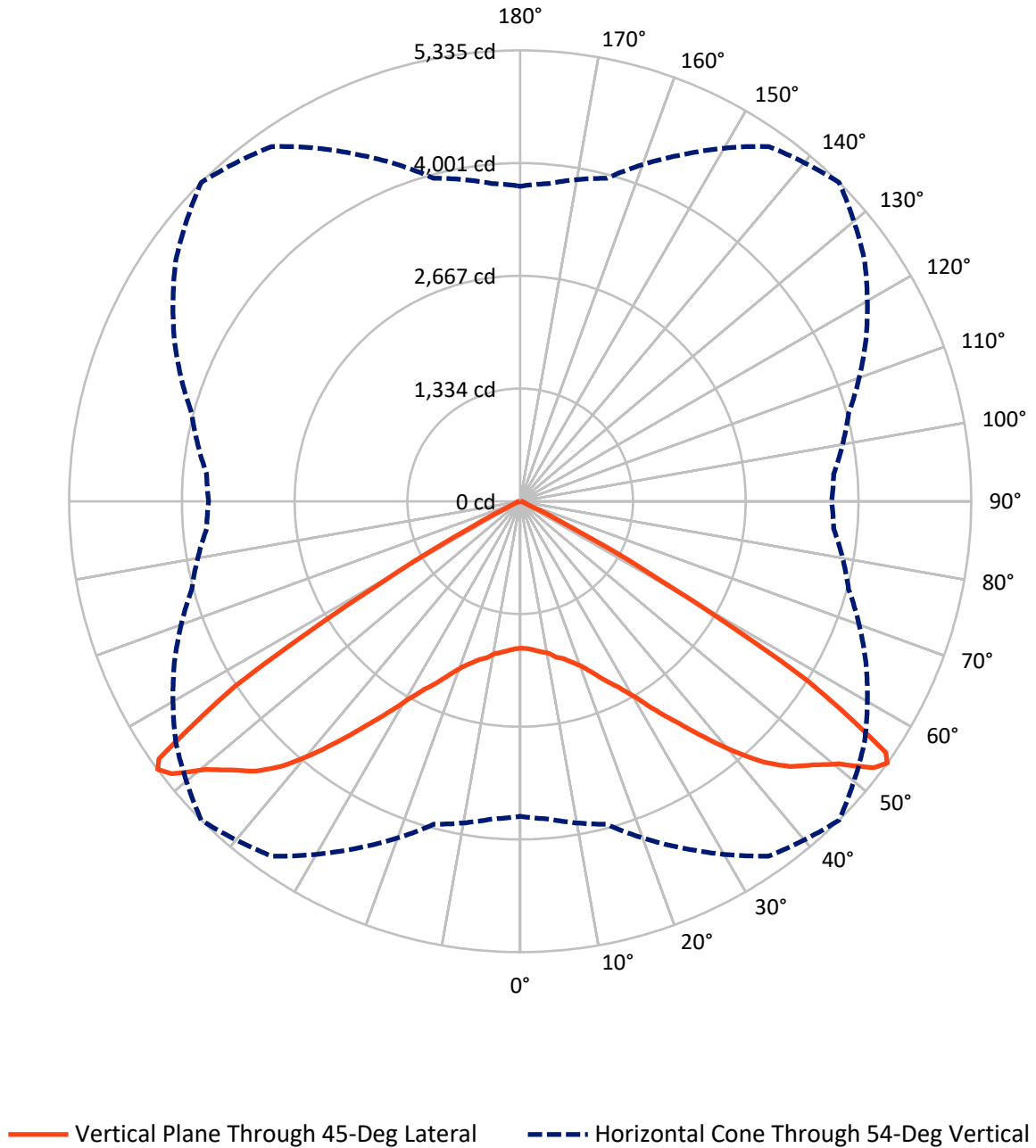
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA3C-827-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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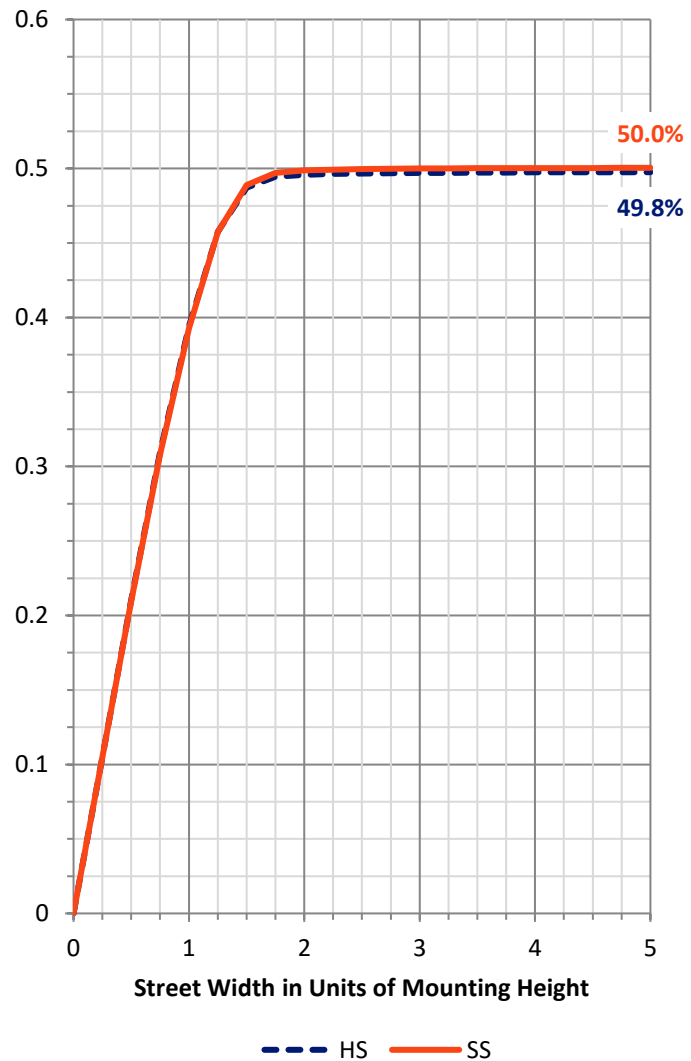
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5299.5	0.0	5299.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5299.5	0.0	5299.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10599.0	0.0	10599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.6
10°-20°	550.8	5.2
20°-30°	1079.6	10.2
30°-40°	1941.4	18.3
40°-50°	3323.3	31.4
50°-60°	3215.6	30.3
60°-70°	275.3	2.6
70°-80°	32.6	0.3
80°-90°	10.2	0.1
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°	10599.0	100.0
0°-180°	10599.0	100.0



REPORT NUMBER: P528535

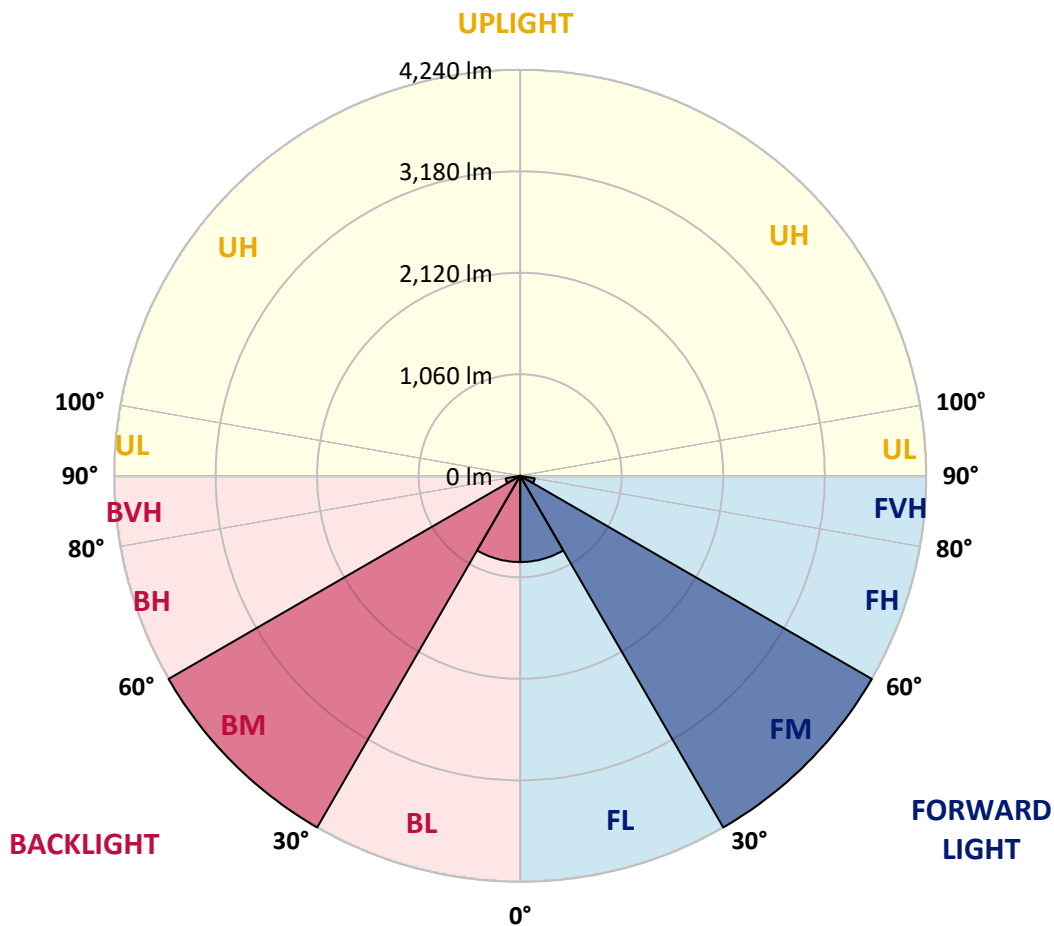
CATALOG NUMBER: GALN-SA3C-827-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.3	8.5			
FM (30°-60°)	4240.1	40.0			
FH (60°-80°)	153.9	1.5			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	900.3	8.5	B2/1000		
BM (30°-60°)	4240.1	40.0	B3/5000		
BH (60°-80°)	153.9	1.5	B1/500		G0/660
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9
2.5°	1746.3	1756.4	1749.7	1754.7	1754.7	1746.3	1751.3	1731.2	1744.6	1734.5	1736.2
5°	1773.2	1771.5	1771.5	1773.2	1766.5	1769.8	1763.1	1756.4	1751.3	1744.6	1764.8
7.5°	1806.8	1806.8	1795.0	1798.4	1795.0	1800.0	1786.6	1773.2	1768.1	1763.1	1759.7
10°	1838.7	1835.3	1830.3	1845.4	1833.6	1826.9	1820.2	1811.8	1793.3	1786.6	1779.9
12.5°	1885.7	1884.0	1877.3	1892.4	1885.7	1892.4	1867.2	1845.4	1842.0	1820.2	1831.9
15°	1941.1	1956.2	1944.4	1944.4	1941.1	1932.7	1922.6	1912.5	1882.3	1873.9	1875.6
17.5°	2013.3	2008.2	2009.9	2009.9	2026.7	2004.9	1984.7	1959.6	1944.4	1939.4	1922.6
20°	2082.1	2088.8	2087.2	2098.9	2109.0	2085.5	2063.7	2060.3	2018.3	2025.0	2001.5
22.5°	2203.0	2198.0	2206.4	2214.8	2208.1	2204.7	2184.6	2159.4	2122.4	2105.6	2102.3
25°	2330.6	2322.2	2307.1	2327.3	2337.4	2352.5	2313.8	2300.4	2243.3	2218.1	2219.8
27.5°	2439.8	2451.5	2468.3	2476.7	2501.9	2496.9	2470.0	2426.4	2382.7	2354.1	2335.7
30°	2589.2	2595.9	2624.5	2636.2	2679.9	2691.7	2649.7	2599.3	2522.1	2485.1	2463.3
32.5°	2726.9	2773.9	2772.3	2831.0	2901.5	2950.2	2874.7	2797.4	2720.2	2676.5	2637.9
35°	2950.2	2941.8	2990.5	3052.7	3166.9	3222.3	3140.0	3051.0	2933.5	2862.9	2832.7
37.5°	3158.5	3161.8	3227.3	3326.4	3457.3	3543.0	3470.8	3324.7	3203.8	3113.1	3071.1
40°	3460.7	3467.4	3534.6	3647.1	3794.8	3887.2	3803.2	3655.5	3494.3	3423.8	3423.8
42.5°	3815.0	3843.5	3887.2	3984.6	4117.2	4219.7	4144.1	4028.2	3865.4	3774.7	3788.1
45°	4179.4	4192.8	4221.3	4365.8	4427.9	4478.3	4407.7	4354.0	4244.9	4134.0	4115.6
47.5°	4520.2	4525.3	4609.2	4654.6	4703.3	4661.3	4706.6	4636.1	4513.5	4406.1	4384.2
50°	4671.4	4663.0	4782.2	4919.9	4956.8	4882.9	4844.3	4797.3	4610.9	4481.6	4424.5
52.5°	4231.4	4280.1	4501.8	4884.6	5173.4	5235.5	5010.5	4793.9	4446.4	4194.5	4155.9
54°	3727.7	3773.0	3956.0	4523.6	5124.7	5334.6	4971.9	4511.8	4021.5	3722.6	3684.0
55°	3229.0	3178.6	3511.1	4090.4	4896.4	5247.3	4819.1	4147.5	3586.6	3312.9	3259.2
57.5°	1748.0	1756.4	2036.8	2584.2	3440.5	4023.2	3553.1	2805.8	2119.1	1811.8	1784.9
60°	554.1	567.5	690.1	1044.4	1643.9	1962.9	1682.5	1126.7	779.1	624.6	599.5
62.5°	173.0	179.7	196.5	292.2	450.0	643.1	503.7	302.2	225.0	206.5	209.9
65°	105.8	105.8	107.5	114.2	134.3	156.2	151.1	132.7	127.6	124.3	122.6
67.5°	68.8	67.2	70.5	75.6	78.9	80.6	85.6	90.7	89.0	85.6	85.6
70°	42.0	40.3	43.7	50.4	52.1	55.4	60.4	67.2	65.5	62.1	63.8
72.5°	23.5	23.5	25.2	30.2	35.3	38.6	43.7	48.7	50.4	48.7	48.7
75°	8.4	10.1	13.4	18.5	21.8	26.9	31.9	36.9	42.0	38.6	36.9
77.5°	3.4	3.4	6.7	11.8	16.8	21.8	30.2	35.3	38.6	35.3	31.9
80°	1.7	1.7	5.0	10.1	15.1	20.1	25.2	30.2	31.9	28.5	25.2
82.5°	1.7	1.7	5.0	10.1	15.1	18.5	26.9	30.2	33.6	30.2	25.2
85°	0.0	1.7	5.0	10.1	13.4	15.1	15.1	10.1	8.4	5.0	5.0
87.5°	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)