

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: P530409

Luminaire Tested: **GALN-SA5C-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13500 lumens
Efficiency: N/A
Efficacy: 50.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

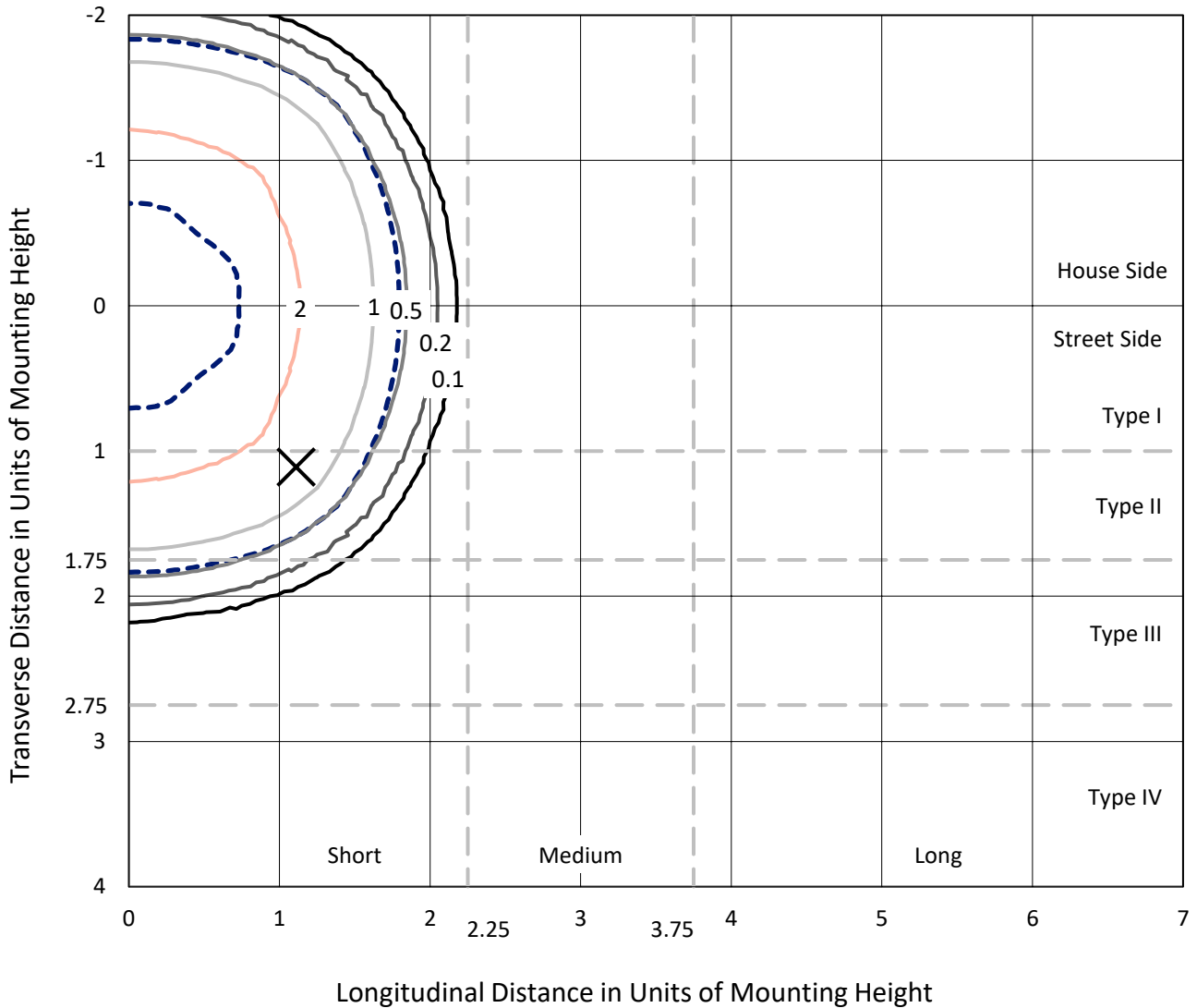
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

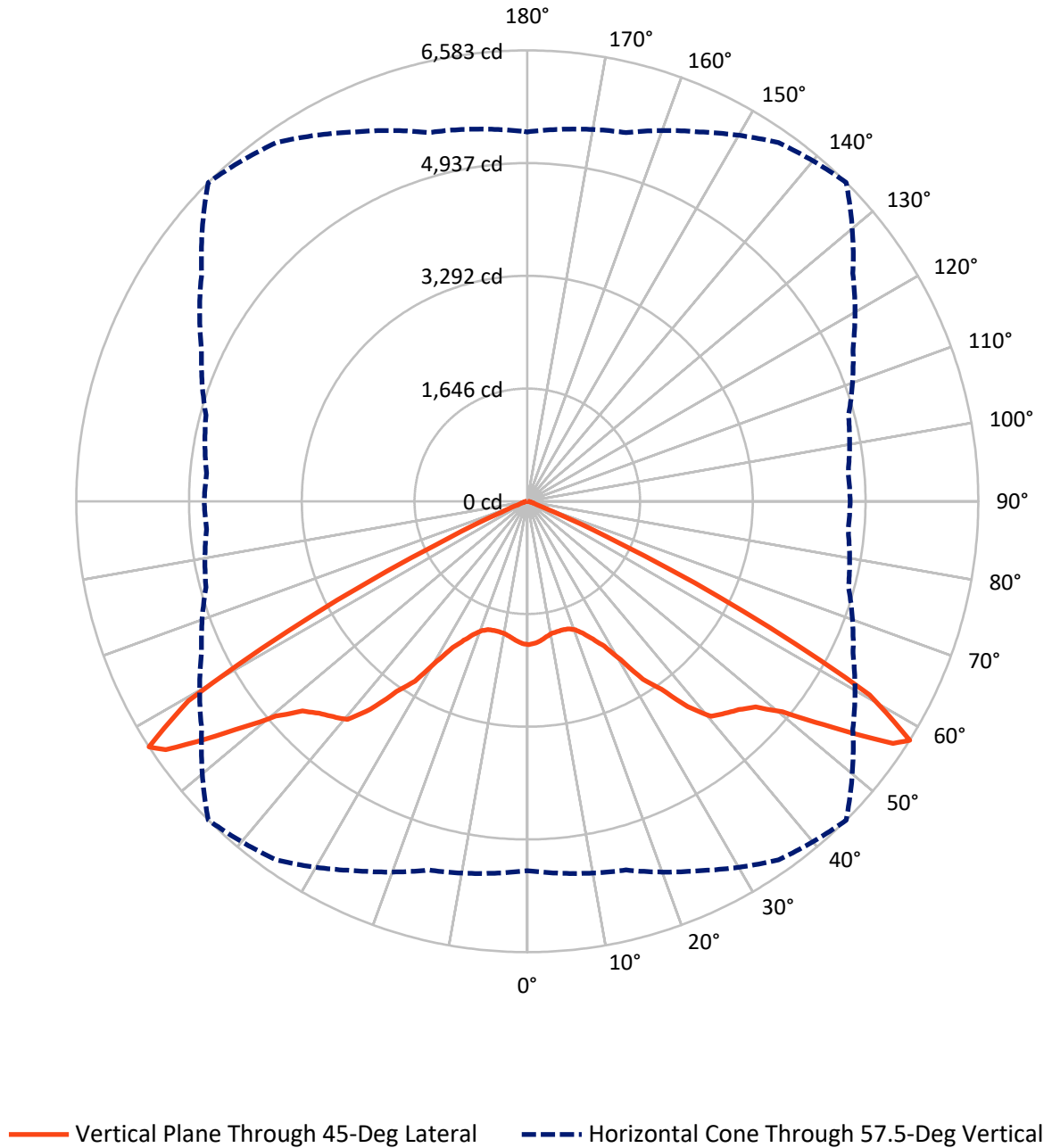
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6750.0	0.0	6750.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6750.0	0.0	6750.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13500.0	0.0	13500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	1.4
10°-20°	556.2	4.1
20°-30°	1026.7	7.6
30°-40°	2019.1	15.0
40°-50°	3288.5	24.4
50°-60°	4689.9	34.7
60°-70°	1623.8	12.0
70°-80°	87.1	0.6
80°-90°	16.4	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°	13500.0	100.0
0°-180°	13500.0	100.0

Coefficient of Utilization

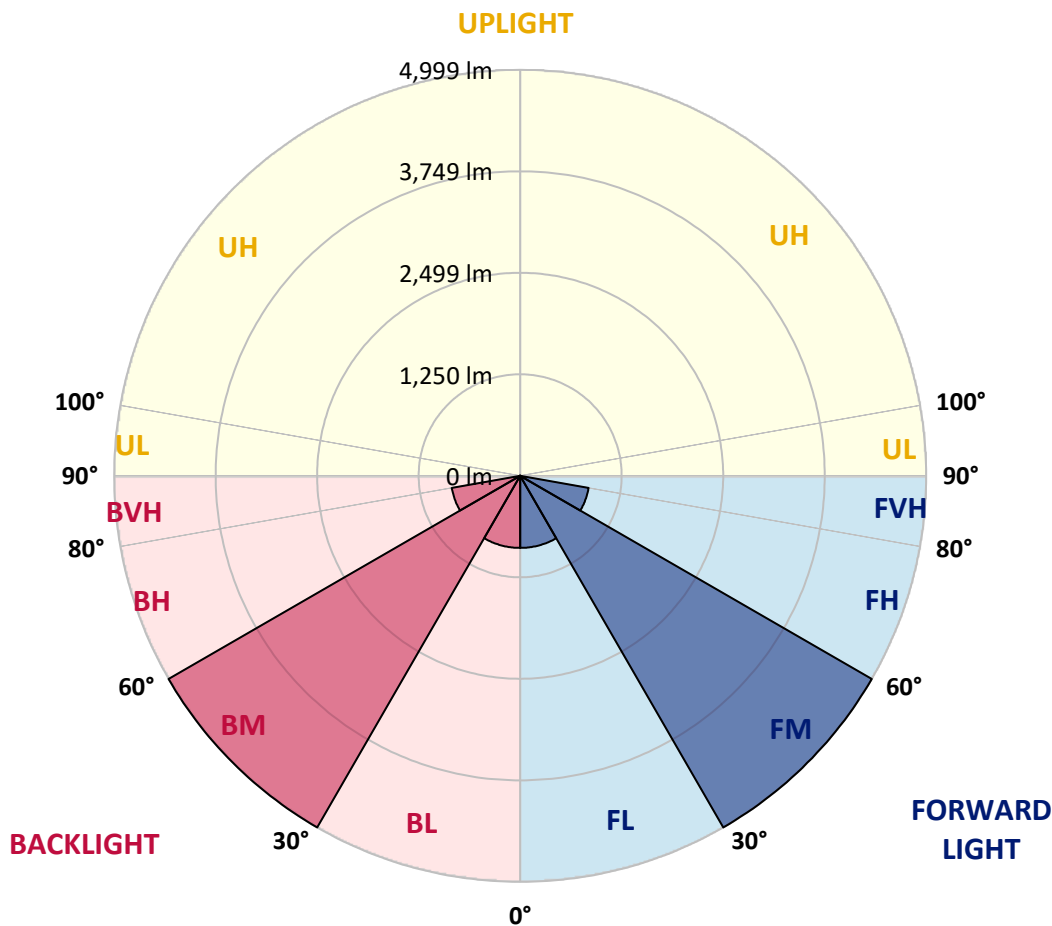


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.7	6.6			
FM (30°-60°)	4998.7	37.0			
FH (60°-80°)	855.4	6.3			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	887.7	6.6	B2/1000		
BM (30°-60°)	4998.7	37.0	B3/5000		
BH (60°-80°)	855.4	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2094.0	2094.0	2094.0	2094.0	2094.0	2094.0	2094.0	2094.0	2094.0	2094.0	2094.0
2.5°	2088.4	2099.6	2085.5	2079.9	2077.1	2077.1	2068.7	2068.7	2065.8	2068.7	2057.4
5°	2054.6	2065.8	2065.8	2063.0	2046.1	2043.3	2034.9	2029.3	2032.1	2020.8	2029.3
7.5°	2020.8	2029.3	2018.0	2015.2	2009.6	1998.3	1995.5	1970.2	1973.0	1973.0	1978.6
10°	2015.2	2012.4	1995.5	1981.4	1964.5	1961.7	1953.3	1947.6	1947.6	1944.8	1953.3
12.5°	2015.2	2001.1	1998.3	1967.3	1939.2	1950.5	1927.9	1913.9	1933.6	1939.2	1950.5
15°	2012.4	2026.4	1978.6	1964.5	1944.8	1947.6	1927.9	1913.9	1925.1	1930.8	1939.2
17.5°	2029.3	2020.8	2006.7	1978.6	1970.2	1958.9	1933.6	1922.3	1922.3	1936.4	1939.2
20°	2074.3	2051.8	2023.6	2009.6	2018.0	2003.9	1973.0	1930.8	1942.0	1953.3	1961.7
22.5°	2116.5	2099.6	2079.9	2071.5	2119.3	2096.8	2043.3	1995.5	1978.6	1998.3	2012.4
25°	2198.1	2198.1	2161.5	2172.8	2226.3	2229.1	2167.2	2082.7	2071.5	2079.9	2085.5
27.5°	2364.2	2372.6	2341.7	2352.9	2375.4	2395.1	2341.7	2271.3	2246.0	2243.2	2251.6
30°	2544.3	2561.2	2558.4	2606.2	2671.0	2682.2	2603.4	2488.0	2412.0	2398.0	2409.2
32.5°	2780.7	2789.2	2783.5	2839.8	3014.3	3096.0	2890.5	2727.3	2625.9	2651.3	2625.9
35°	3225.4	3217.0	3155.1	3166.3	3309.9	3369.0	3171.9	3067.8	3020.0	3070.6	3059.4
37.5°	3608.2	3577.2	3526.6	3599.8	3748.9	3802.4	3596.9	3414.0	3326.7	3411.2	3447.8
40°	3931.9	3853.1	3782.7	3855.9	4055.7	4128.9	3827.7	3678.6	3644.8	3706.7	3785.5
42.5°	4204.9	4154.2	4061.3	4067.0	4199.2	4233.0	3991.0	3903.7	3869.9	3968.5	4007.9
45°	4399.1	4351.2	4264.0	4258.3	4359.7	4337.2	4120.4	4061.3	4081.0	4145.8	4165.5
47.5°	4497.6	4522.9	4472.2	4486.3	4539.8	4486.3	4314.6	4314.6	4269.6	4309.0	4289.3
50°	4781.8	4703.0	4767.8	4767.8	4824.1	4829.7	4658.0	4596.1	4475.1	4407.5	4407.5
52.5°	5114.0	5119.6	5144.9	5237.8	5333.5	5415.1	5170.2	4905.7	4703.0	4615.8	4604.5
55°	5387.0	5443.3	5544.6	5719.1	5994.9	6107.5	5685.3	5212.5	4964.8	4829.7	4801.5
56°	5536.1	5482.7	5657.2	5896.4	6256.6	6403.0	5769.7	5274.4	5001.4	4849.4	4846.6
57.5°	5392.6	5451.7	5572.7	5949.9	6391.7	6583.1	5800.7	5246.2	4855.0	4700.2	4714.3
60°	4258.3	4314.6	4477.9	4900.1	5592.4	5741.6	4908.5	4325.9	3976.9	3754.5	3757.4
62.5°	2409.2	2451.4	2578.1	2969.3	3399.9	3543.5	3059.4	2671.0	2428.9	2305.1	2265.7
65°	886.6	869.7	889.4	1089.2	1353.8	1474.8	1272.2	1075.1	948.5	903.5	886.6
67.5°	332.1	306.8	287.1	306.8	385.6	408.1	374.3	312.4	292.7	301.2	306.8
70°	205.5	194.2	154.8	146.4	143.5	140.7	149.2	157.6	180.1	211.1	216.7
72.5°	143.5	135.1	109.8	104.1	98.5	95.7	109.8	121.0	140.7	163.2	166.1
75°	56.3	59.1	56.3	61.9	64.7	67.5	78.8	87.2	95.7	95.7	92.9
77.5°	11.3	11.3	16.9	22.5	28.1	36.6	53.5	61.9	64.7	61.9	53.5
80°	0.0	0.0	5.6	11.3	22.5	31.0	47.8	53.5	59.1	53.5	42.2
82.5°	0.0	0.0	5.6	14.1	22.5	28.1	45.0	56.3	64.7	59.1	45.0
85°	0.0	0.0	5.6	11.3	16.9	19.7	19.7	14.1	14.1	8.4	5.6
87.5°	0.0	0.0	0.0	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)