

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: P651767

Luminaire Tested: **GALN-SA3A-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10340.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

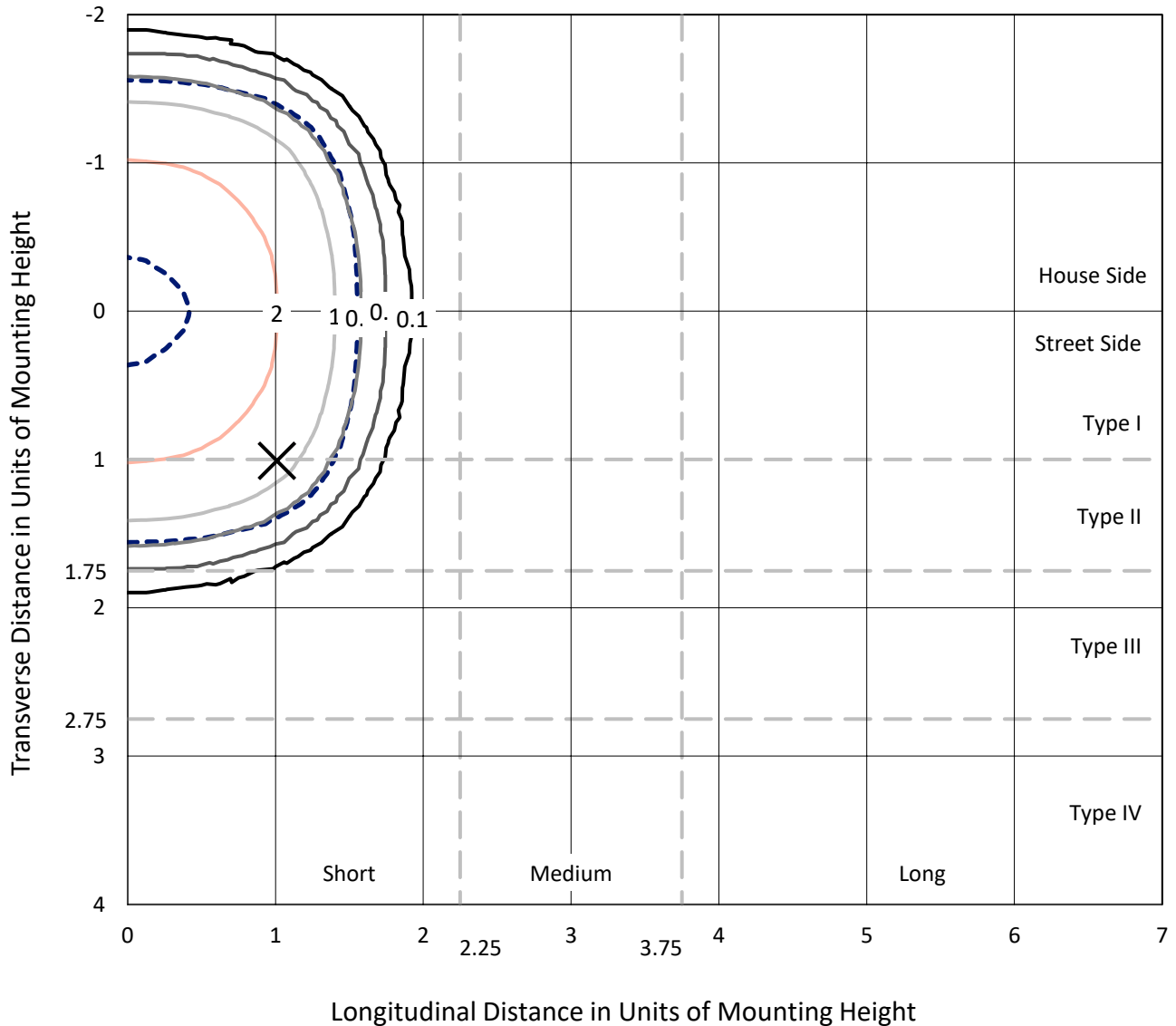
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

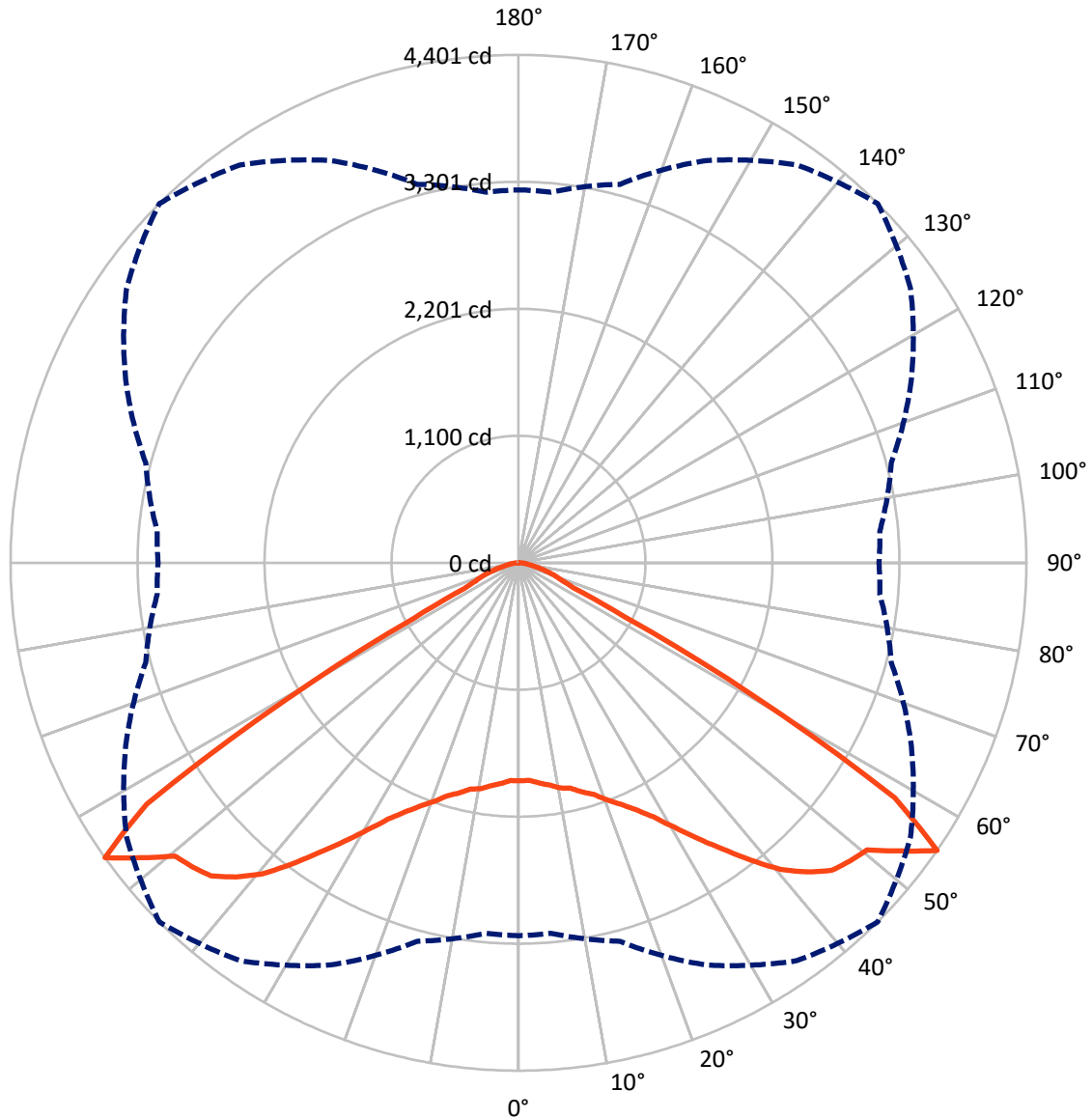
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5170.5	0.0	5170.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5170.5	0.0	5170.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10340.9	0.0	10340.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	1.8
10°-20°	584.4	5.7
20°-30°	1089.8	10.5
30°-40°	1824.6	17.6
40°-50°	2839.3	27.5
50°-60°	2948.1	28.5
60°-70°	625.2	6.0
70°-80°	205.9	2.0
80°-90°	39.2	0.4
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°	10340.9	100.0
0°-180°	10340.9	100.0

Coefficient of Utilization



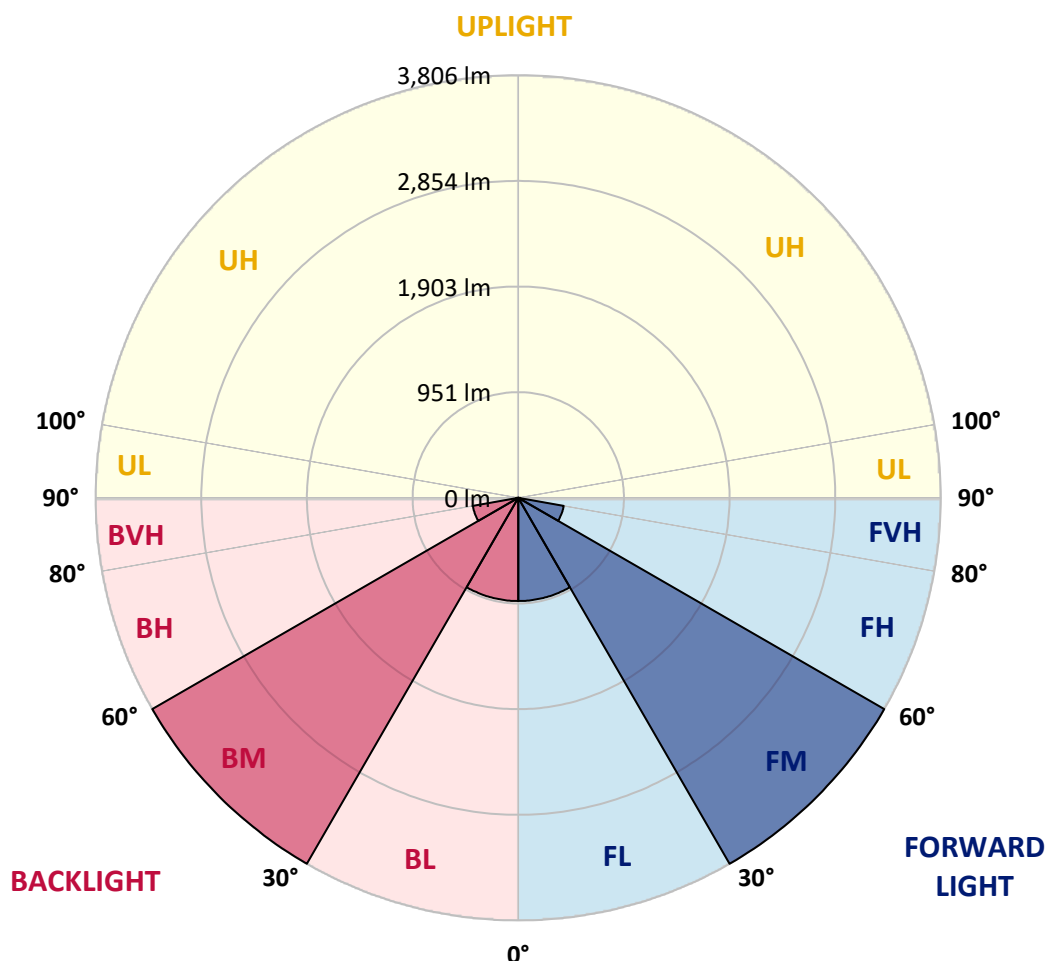
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.3	9.0			
FM (30°-60°)	3806.0	36.8			
FH (60°-80°)	415.5	4.0			G0/660
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	929.3	9.0	B2/1000		
BM (30°-60°)	3806.0	36.8	B3/5000		
BH (60°-80°)	415.5	4.0	B1/500		G0/660
BVH (80°-90°)	19.6	0.2			G1/100
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°	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1
2.5°	1910.6	1901.8	1886.9	1898.1	1906.9	1888.1	1895.6	1899.3	1896.9	1886.9	1890.6
5°	1938.1	1933.1	1920.6	1929.3	1918.1	1918.1	1910.6	1900.6	1915.6	1913.1	1919.3
7.5°	1938.1	1931.9	1956.8	1940.6	1945.6	1945.6	1933.1	1923.1	1930.6	1919.3	1913.1
10°	1976.9	1985.6	1974.3	1978.0	1975.6	1984.3	1965.6	1959.4	1953.1	1949.4	1941.9
12.5°	2023.0	2016.8	2020.6	2018.1	2026.8	2004.3	1993.1	1979.3	1990.6	1974.3	1985.6
15°	2060.5	2056.8	2060.5	2070.5	2061.8	2060.5	2040.5	2026.8	2009.3	2013.0	1995.5
17.5°	2111.8	2108.1	2109.3	2118.1	2116.8	2110.5	2095.5	2069.3	2063.1	2053.0	2041.8
20°	2188.0	2181.7	2179.3	2183.0	2189.2	2194.3	2164.2	2154.2	2133.0	2116.8	2098.0
22.5°	2253.0	2250.5	2260.4	2244.2	2258.0	2273.0	2244.2	2239.2	2186.8	2178.0	2158.0
25°	2342.9	2339.2	2332.9	2356.7	2373.0	2371.7	2344.2	2316.7	2276.8	2266.7	2266.7
27.5°	2437.9	2416.7	2449.2	2455.4	2484.1	2492.9	2469.2	2429.1	2391.6	2370.4	2375.4
30°	2556.6	2536.6	2544.1	2589.1	2626.6	2659.1	2599.1	2540.4	2487.9	2450.4	2444.2
32.5°	2675.3	2655.4	2677.8	2721.6	2796.6	2845.3	2786.6	2684.1	2622.8	2567.8	2579.1
35°	2771.5	2786.6	2822.8	2889.0	2966.5	3045.2	2951.5	2872.8	2785.3	2724.1	2732.8
37.5°	2926.5	2972.8	3001.4	3077.7	3187.6	3268.9	3171.4	3069.0	2975.2	2895.2	2867.7
40°	3128.9	3160.1	3192.7	3282.6	3412.6	3493.8	3401.3	3267.6	3175.2	3092.7	3088.9
42.5°	3351.4	3381.3	3415.0	3525.1	3602.5	3663.7	3578.8	3507.6	3405.0	3340.1	3336.3
45°	3610.0	3588.8	3626.2	3698.7	3763.7	3803.7	3748.7	3713.7	3640.0	3580.1	3573.7
47.5°	3782.5	3763.7	3831.2	3896.2	3906.2	3862.5	3873.6	3906.2	3828.7	3730.0	3761.2
50°	3882.4	3882.4	3927.4	3987.3	3968.6	3912.4	4001.1	4003.7	3926.1	3838.7	3838.7
52.5°	3708.7	3747.5	3874.9	4071.1	4133.6	4149.8	4129.8	4044.9	3842.4	3663.7	3655.0
55°	3231.4	3222.6	3395.1	3845.0	4208.5	4401.0	4146.0	3755.0	3343.8	3142.6	3122.7
57.5°	2101.7	2111.8	2369.2	2827.8	3483.8	3842.4	3412.6	2862.8	2369.2	2091.8	2118.1
60°	946.0	979.7	1135.9	1478.2	2041.8	2334.2	2046.8	1553.2	1192.1	1034.7	1048.4
62.5°	543.5	549.8	556.1	659.8	869.7	1028.4	903.4	697.3	614.8	587.3	587.3
65°	458.6	454.8	456.1	464.8	487.4	519.8	506.1	487.4	489.8	487.4	483.6
67.5°	389.9	394.8	391.1	397.4	398.6	403.6	412.3	419.8	421.1	423.6	421.1
70°	319.9	321.2	323.6	328.7	329.9	333.6	346.2	352.4	356.2	356.2	361.1
72.5°	244.9	243.6	246.2	251.1	257.4	258.7	269.9	278.6	283.7	277.4	278.6
75°	161.2	162.5	166.2	170.0	178.7	187.5	191.2	199.9	201.2	203.7	197.5
77.5°	96.2	98.7	102.4	110.0	117.5	125.0	133.7	139.9	142.5	139.9	132.5
80°	62.5	62.5	67.4	73.8	82.5	88.7	93.7	98.7	102.4	98.7	96.2
82.5°	38.8	38.8	45.0	52.5	58.7	62.5	70.0	76.2	80.0	77.5	73.8
85°	20.0	21.3	26.2	32.5	37.5	39.9	38.8	35.0	31.2	30.0	27.5
87.5°	6.2	6.2	7.5	7.5	6.2	6.2	7.5	6.2	7.5	7.5	7.5
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)