

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: P651770

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651770
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-SA3A-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA 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: 9740.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

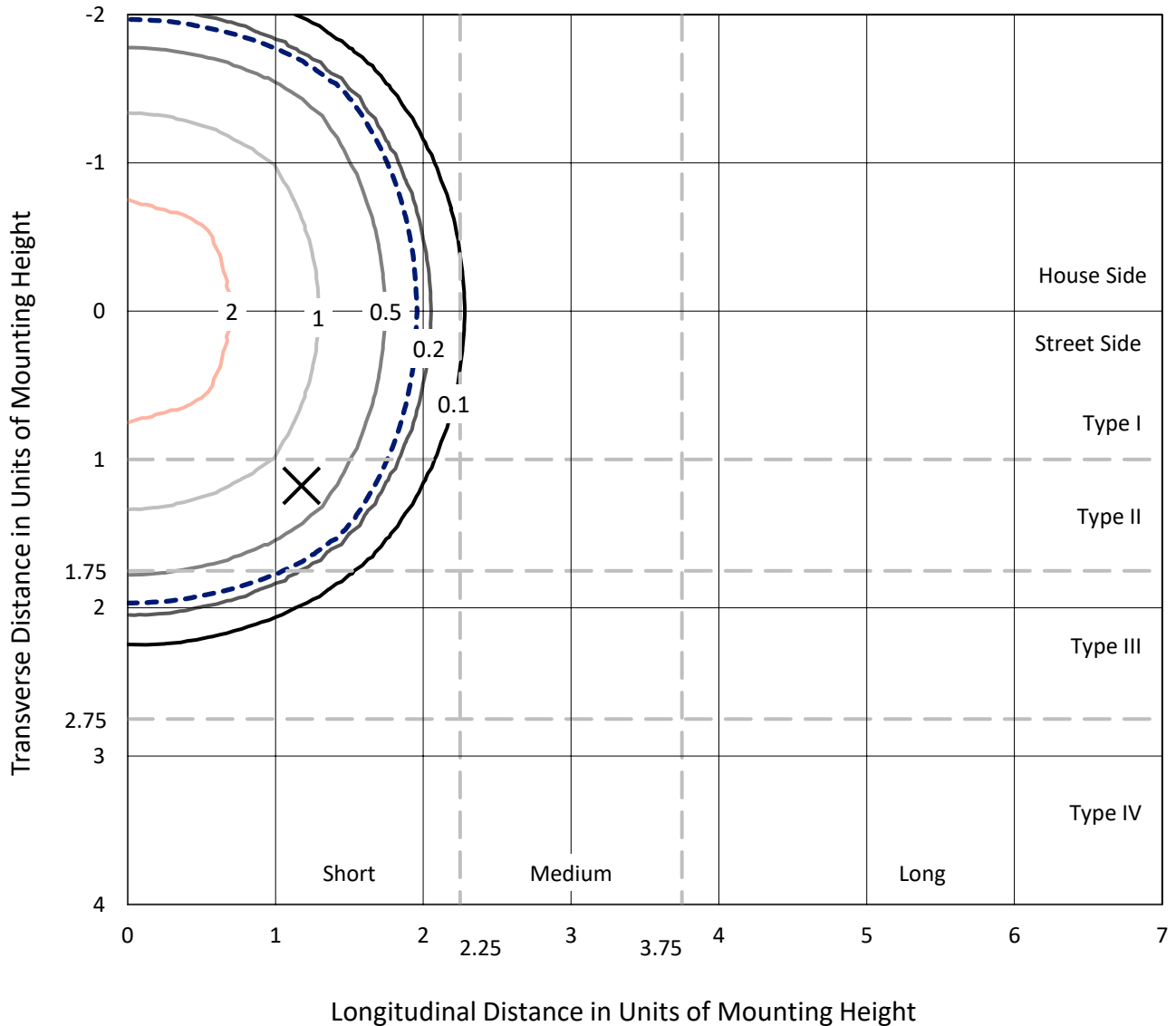
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651770
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

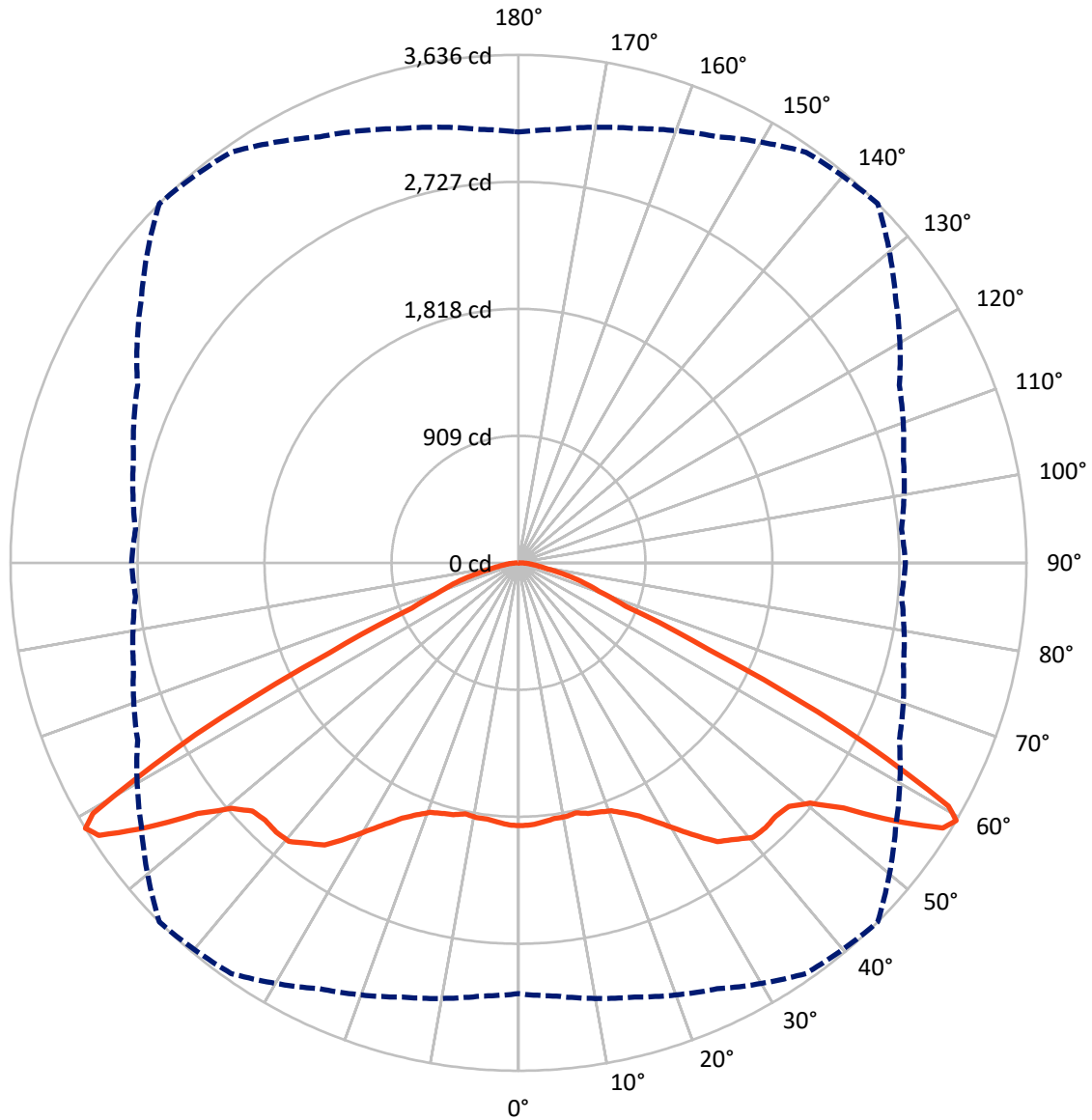
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P651770
CATALOG NUMBER: GALN-SA3A-840-U-5WQ-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651770
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4870.2	0.0	4870.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4870.2	0.0	4870.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9740.5	0.0	9740.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.8
10°-20°	527.4	5.4
20°-30°	920.9	9.5
30°-40°	1470.9	15.1
40°-50°	2003.6	20.6
50°-60°	2709.4	27.8
60°-70°	1485.9	15.3
70°-80°	380.1	3.9
80°-90°	64.8	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°	9740.5	100.0
0°-180°	9740.5	100.0

Coefficient of Utilization



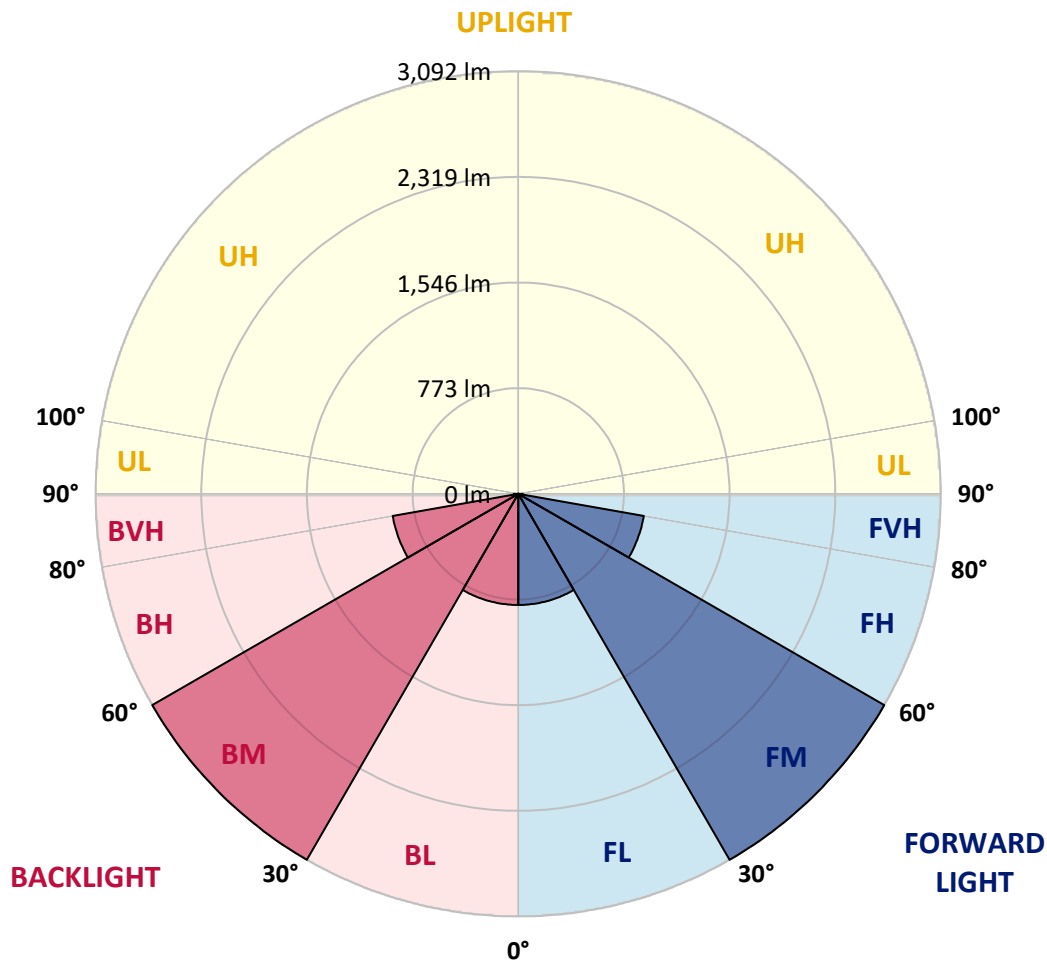
REPORT NUMBER: P651770
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.9	8.3			
FM (30°-60°)	3092.0	31.7			
FH (60°-80°)	933.0	9.6			G1/1800
FVH (80°-90°)	32.4	0.3			G1/100
BL (0°-30°)	812.9	8.3	B2/1000		
BM (30°-60°)	3092.0	31.7	B3/5000		
BH (60°-80°)	933.0	9.6	B2/1000		G1/1800
BVH (80°-90°)	32.4	0.3			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





REPORT NUMBER: P651770

CATALOG NUMBER: GALN-SA3A-840-U-5WQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1881.4	1881.4	1881.4	1881.4	1881.4	1881.4	1881.4	1881.4	1881.4	1881.4	1881.4
2.5°	1870.1	1883.9	1873.9	1882.7	1881.4	1877.6	1871.4	1867.7	1862.6	1870.1	1857.7
5°	1862.6	1873.9	1885.1	1870.1	1870.1	1862.6	1858.9	1851.5	1851.5	1850.2	1848.9
7.5°	1875.2	1863.9	1858.9	1861.4	1863.9	1847.7	1858.9	1844.0	1831.4	1840.2	1850.2
10°	1863.9	1868.9	1850.2	1858.9	1845.2	1847.7	1840.2	1850.2	1836.4	1836.4	1836.4
12.5°	1875.2	1861.4	1867.7	1861.4	1857.7	1836.4	1846.4	1835.2	1834.0	1846.4	1835.2
15°	1897.6	1875.2	1870.1	1857.7	1861.4	1861.4	1851.5	1852.6	1838.9	1846.4	1848.9
17.5°	1890.1	1877.6	1873.9	1858.9	1871.4	1875.2	1856.4	1844.0	1852.6	1851.5	1850.2
20°	1896.4	1901.3	1897.6	1900.2	1905.1	1895.1	1877.6	1860.2	1848.9	1865.2	1863.9
22.5°	1936.3	1931.4	1928.8	1926.3	1935.1	1945.1	1921.3	1893.8	1893.8	1905.1	1910.1
25°	1968.8	1967.5	1966.3	1977.5	2007.5	2007.5	1977.5	1942.5	1933.8	1941.3	1935.1
27.5°	2016.2	2029.9	2025.0	2045.0	2088.6	2098.6	2058.7	2017.5	1993.8	1985.0	1996.3
30°	2124.9	2108.6	2112.3	2133.6	2172.3	2204.8	2143.5	2099.9	2067.4	2066.2	2071.1
32.5°	2197.3	2209.7	2221.0	2240.9	2302.2	2327.0	2253.5	2182.2	2162.3	2151.0	2154.8
35°	2342.1	2330.8	2328.3	2348.3	2409.5	2450.7	2358.3	2295.8	2269.7	2294.6	2294.6
37.5°	2479.4	2448.2	2424.4	2450.7	2506.9	2511.8	2433.2	2399.5	2385.7	2414.5	2413.2
40°	2544.3	2541.8	2486.9	2501.9	2576.7	2584.2	2510.6	2470.7	2468.2	2505.6	2543.1
42.5°	2611.7	2588.0	2533.1	2543.1	2589.3	2591.7	2521.8	2510.6	2538.1	2574.3	2576.7
45°	2623.0	2603.0	2568.0	2543.1	2576.7	2584.2	2543.1	2550.6	2553.0	2596.8	2596.8
47.5°	2645.4	2642.9	2623.0	2604.2	2610.5	2604.2	2578.0	2589.3	2626.7	2647.9	2638.0
50°	2707.9	2681.6	2701.6	2685.4	2686.7	2704.2	2680.4	2691.6	2684.1	2665.4	2652.9
52.5°	2845.2	2832.7	2850.1	2861.4	2873.9	2913.8	2886.4	2826.4	2770.3	2720.3	2719.1
55°	3046.2	3054.9	3088.7	3146.1	3194.7	3258.5	3126.1	2982.5	2892.6	2814.0	2818.9
57.5°	3235.9	3229.7	3275.9	3407.0	3549.3	3581.7	3322.1	3117.3	2971.3	2921.3	2900.1
59°	3083.6	3113.6	3218.5	3364.5	3588.0	3635.5	3295.9	3007.5	2852.7	2751.6	2769.0
60°	2843.9	2855.2	2948.8	3152.3	3454.4	3535.6	3119.9	2837.7	2631.7	2573.0	2599.3
62.5°	2010.0	2001.2	2068.7	2234.7	2505.6	2615.5	2319.6	2121.1	1991.2	1926.3	1941.3
65°	1068.7	1108.6	1136.1	1239.7	1383.3	1499.3	1377.1	1290.9	1218.4	1164.8	1163.5
67.5°	721.6	716.6	722.8	746.6	795.2	827.7	825.2	781.5	775.3	765.3	776.5
70°	608.0	605.5	594.3	594.3	604.3	611.7	620.5	625.5	635.5	647.9	646.7
72.5°	493.2	486.9	479.4	475.7	488.1	491.9	503.1	508.1	516.9	515.6	526.8
75°	325.8	325.8	334.5	344.6	348.3	355.8	357.1	372.1	372.1	374.5	364.6
77.5°	182.2	177.3	183.5	193.5	202.3	216.0	229.7	240.9	247.2	244.7	244.7
80°	106.1	106.1	112.4	123.6	134.8	147.3	157.3	166.0	172.3	169.8	164.8
82.5°	66.2	66.2	72.4	83.7	92.4	99.9	113.6	124.8	132.4	129.9	123.6
85°	33.7	33.7	41.2	48.7	60.0	64.9	63.7	58.7	57.4	51.2	51.2
87.5°	8.7	8.7	12.4	13.7	11.3	12.4	12.4	12.4	12.4	12.4	13.7
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)