

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: P646816

Luminaire Tested: **GALN-SA3C-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646816
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-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 11289.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

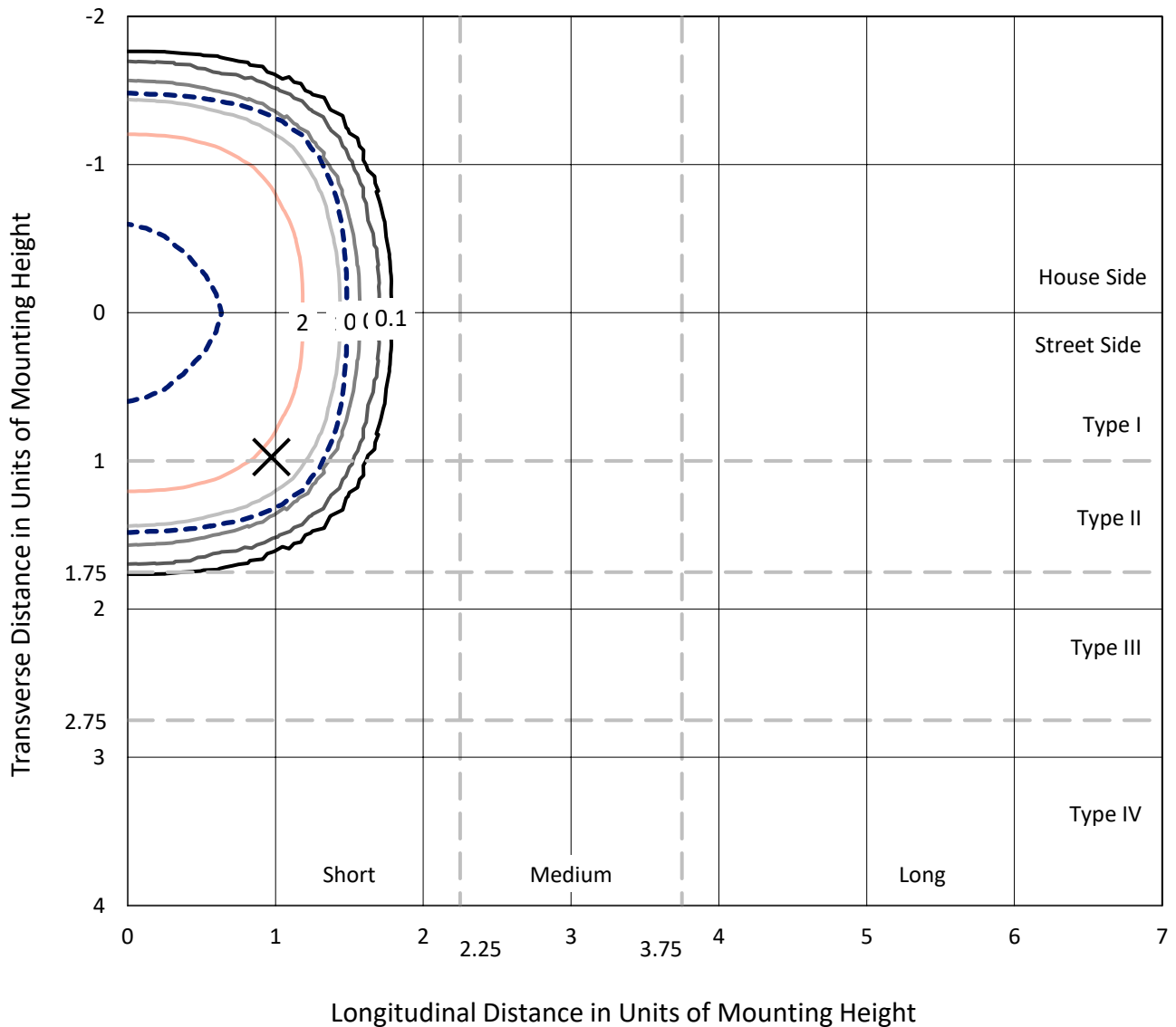
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

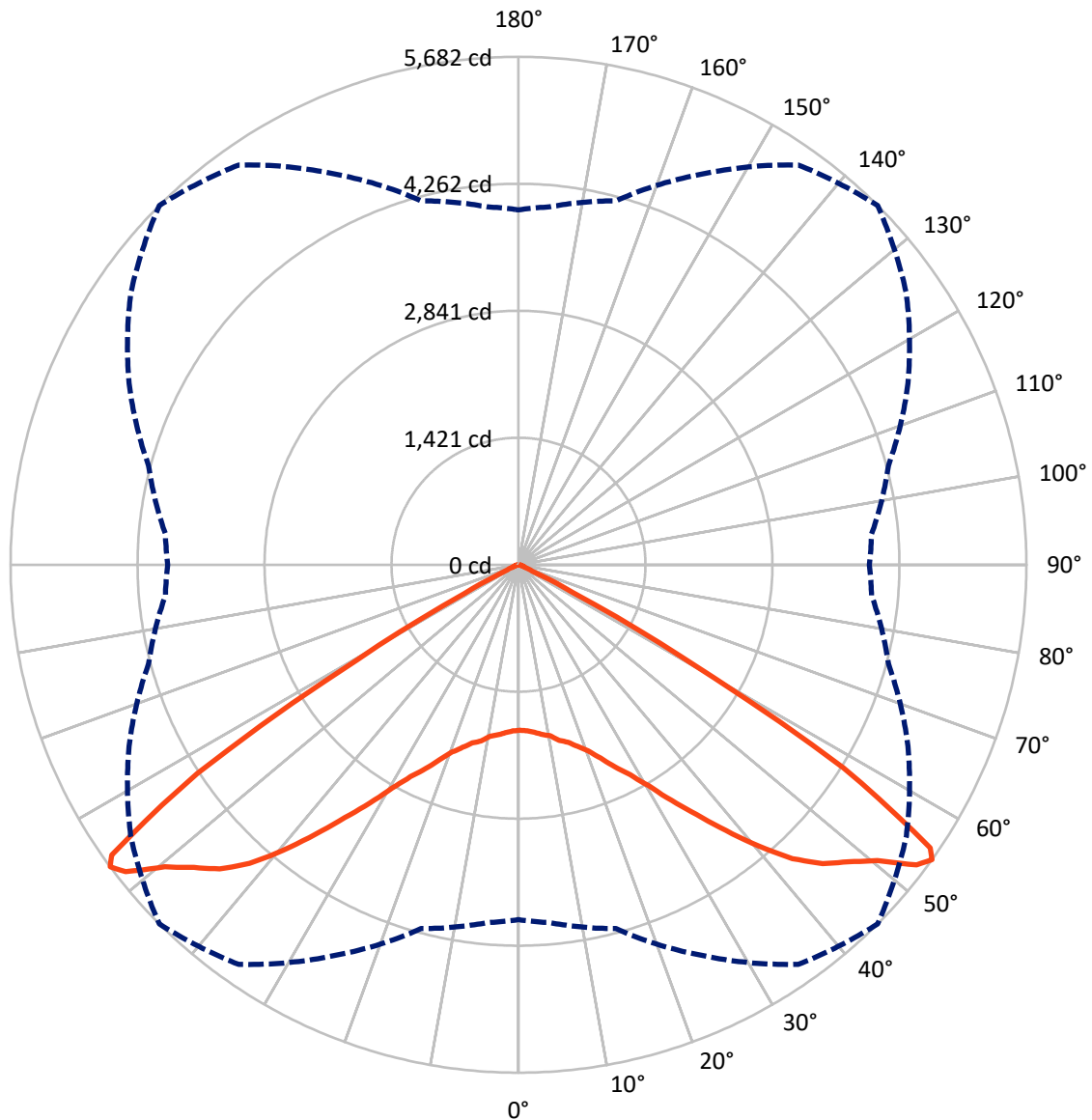
× Max cd
 - - - 1/2 Max cd



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 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5644.6	0.0	5644.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5644.6	0.0	5644.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11289.3	0.0	11289.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	1.6
10°-20°	586.7	5.2
20°-30°	1149.9	10.2
30°-40°	2067.8	18.3
40°-50°	3539.7	31.4
50°-60°	3425.0	30.3
60°-70°	293.2	2.6
70°-80°	34.8	0.3
80°-90°	10.9	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°	11289.3	100.0
0°-180°	11289.3	100.0

Coefficient of Utilization



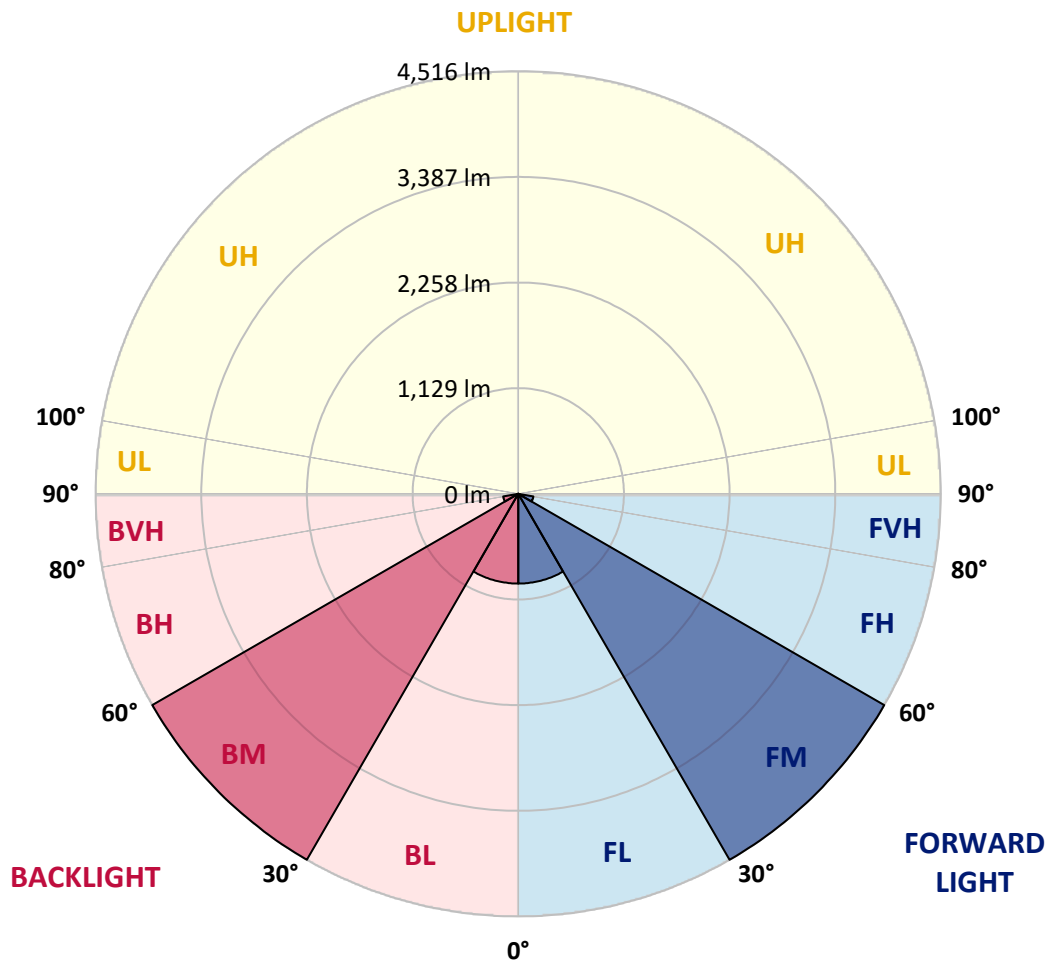
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.9	8.5			
FM (30°-60°)	4516.3	40.0			
FH (60°-80°)	164.0	1.5			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	958.9	8.5	B2/1000		
BM (30°-60°)	4516.3	40.0	B3/5000		
BH (60°-80°)	164.0	1.5	B1/500		G0/660
BVH (80°-90°)	5.5	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°	1851.1	1851.1	1851.1	1851.1	1851.1	1851.1	1851.1	1851.1	1851.1	1851.1	1851.1
2.5°	1860.0	1870.7	1863.6	1868.9	1868.9	1860.0	1865.4	1844.0	1858.2	1847.5	1849.3
5°	1888.7	1886.9	1886.9	1888.7	1881.5	1885.1	1877.9	1870.7	1865.4	1858.2	1879.7
7.5°	1924.5	1924.5	1911.9	1915.5	1911.9	1917.3	1902.9	1888.7	1883.3	1877.9	1874.3
10°	1958.4	1954.8	1949.4	1965.6	1953.0	1945.9	1938.7	1929.8	1910.1	1902.9	1895.8
12.5°	2008.5	2006.7	1999.5	2015.6	2008.5	2015.6	1988.8	1965.6	1962.0	1938.7	1951.2
15°	2067.5	2083.6	2071.1	2071.1	2067.5	2058.6	2047.9	2037.1	2004.9	1995.9	1997.7
17.5°	2144.4	2139.1	2140.8	2140.8	2158.7	2135.5	2114.0	2087.2	2071.1	2065.7	2047.9
20°	2217.8	2224.9	2223.1	2235.6	2246.3	2221.3	2198.0	2194.5	2149.8	2156.9	2131.9
22.5°	2346.5	2341.2	2350.1	2359.0	2351.9	2348.3	2326.8	2300.0	2260.7	2242.7	2239.2
25°	2482.4	2473.5	2457.4	2478.8	2489.5	2505.7	2464.6	2450.2	2389.4	2362.6	2364.4
27.5°	2598.7	2611.2	2629.1	2638.0	2664.9	2659.5	2630.9	2584.4	2537.9	2507.5	2487.8
30°	2757.9	2765.0	2795.4	2807.9	2854.4	2867.0	2822.2	2768.6	2686.3	2647.0	2623.8
32.5°	2904.5	2954.6	2952.8	3015.4	3090.5	3142.4	3061.9	2979.6	2897.3	2850.8	2809.7
35°	3142.4	3133.4	3185.3	3251.5	3373.1	3432.1	3344.5	3249.7	3124.5	3049.4	3017.2
37.5°	3364.2	3367.8	3437.5	3543.0	3682.5	3773.7	3696.9	3541.2	3412.5	3315.8	3271.1
40°	3686.1	3693.3	3764.8	3884.6	4042.0	4140.3	4050.9	3893.5	3721.8	3646.7	3646.7
42.5°	4063.5	4093.8	4140.3	4244.1	4385.4	4494.5	4414.0	4290.6	4117.1	4020.5	4034.9
45°	4451.6	4465.8	4496.3	4650.1	4716.2	4769.9	4694.8	4637.6	4521.3	4403.3	4383.6
47.5°	4814.7	4820.0	4909.4	4957.7	5009.6	4964.8	5013.2	4938.1	4807.5	4693.0	4669.7
50°	4975.6	4966.6	5093.6	5240.3	5279.6	5200.9	5159.8	5109.7	4911.2	4773.5	4712.7
52.5°	4507.0	4558.9	4794.9	5202.7	5510.4	5576.5	5336.8	5106.2	4735.9	4467.6	4426.5
54°	3970.4	4018.7	4213.7	4818.2	5458.4	5682.1	5295.7	4805.7	4283.5	3965.1	3923.9
55°	3439.2	3385.6	3739.8	4356.8	5215.2	5589.1	5133.0	4417.6	3820.3	3528.7	3471.4
57.5°	1861.8	1870.7	2169.5	2752.5	3664.6	4285.2	3784.5	2988.6	2257.1	1929.8	1901.2
60°	590.2	604.5	735.1	1112.4	1750.9	2090.8	1792.1	1200.1	829.8	665.3	638.5
62.5°	184.2	191.4	209.2	311.2	479.4	685.0	536.5	321.9	239.7	220.0	223.5
65°	112.7	112.7	114.5	121.6	143.1	166.3	161.0	141.3	135.9	132.3	130.5
67.5°	73.4	71.6	75.1	80.5	84.1	85.8	91.2	96.5	94.8	91.2	91.2
70°	44.7	42.9	46.5	53.6	55.4	59.0	64.4	71.6	69.8	66.2	68.0
72.5°	25.1	25.1	26.9	32.2	37.6	41.1	46.5	51.8	53.6	51.8	51.8
75°	8.9	10.7	14.3	19.7	23.3	28.6	34.0	39.4	44.7	41.1	39.4
77.5°	3.6	3.6	7.1	12.5	17.9	23.3	32.2	37.6	41.1	37.6	34.0
80°	1.8	1.8	5.4	10.7	16.1	21.5	26.9	32.2	34.0	30.4	26.9
82.5°	1.8	1.8	5.4	10.7	16.1	19.7	28.6	32.2	35.8	32.2	26.9
85°	0.0	1.8	5.4	10.7	14.3	16.1	16.1	10.7	8.9	5.4	5.4
87.5°	0.0	0.0	1.8	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)