

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: P453351

Luminaire Tested: **GALN-SA4B-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17355 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

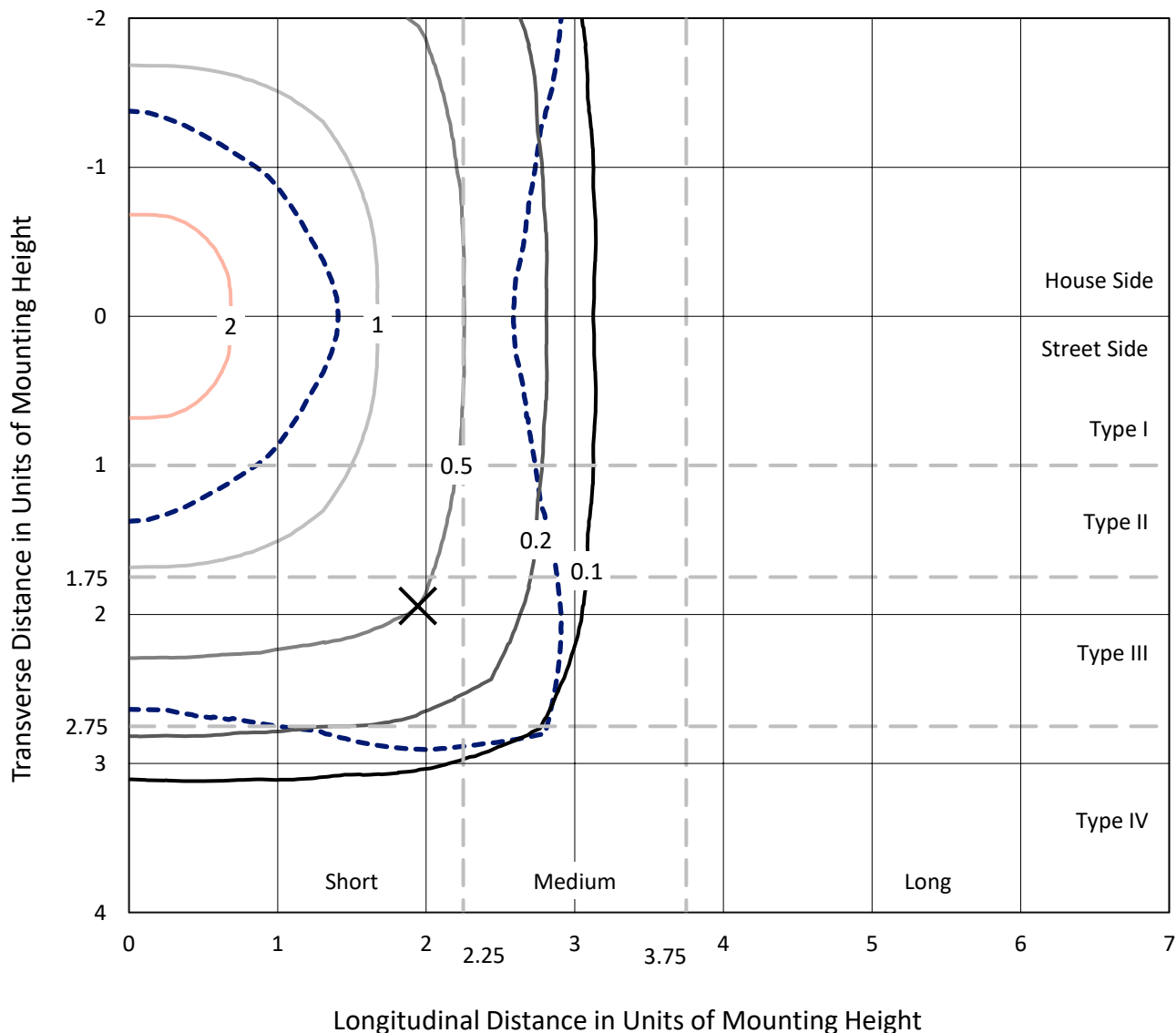
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

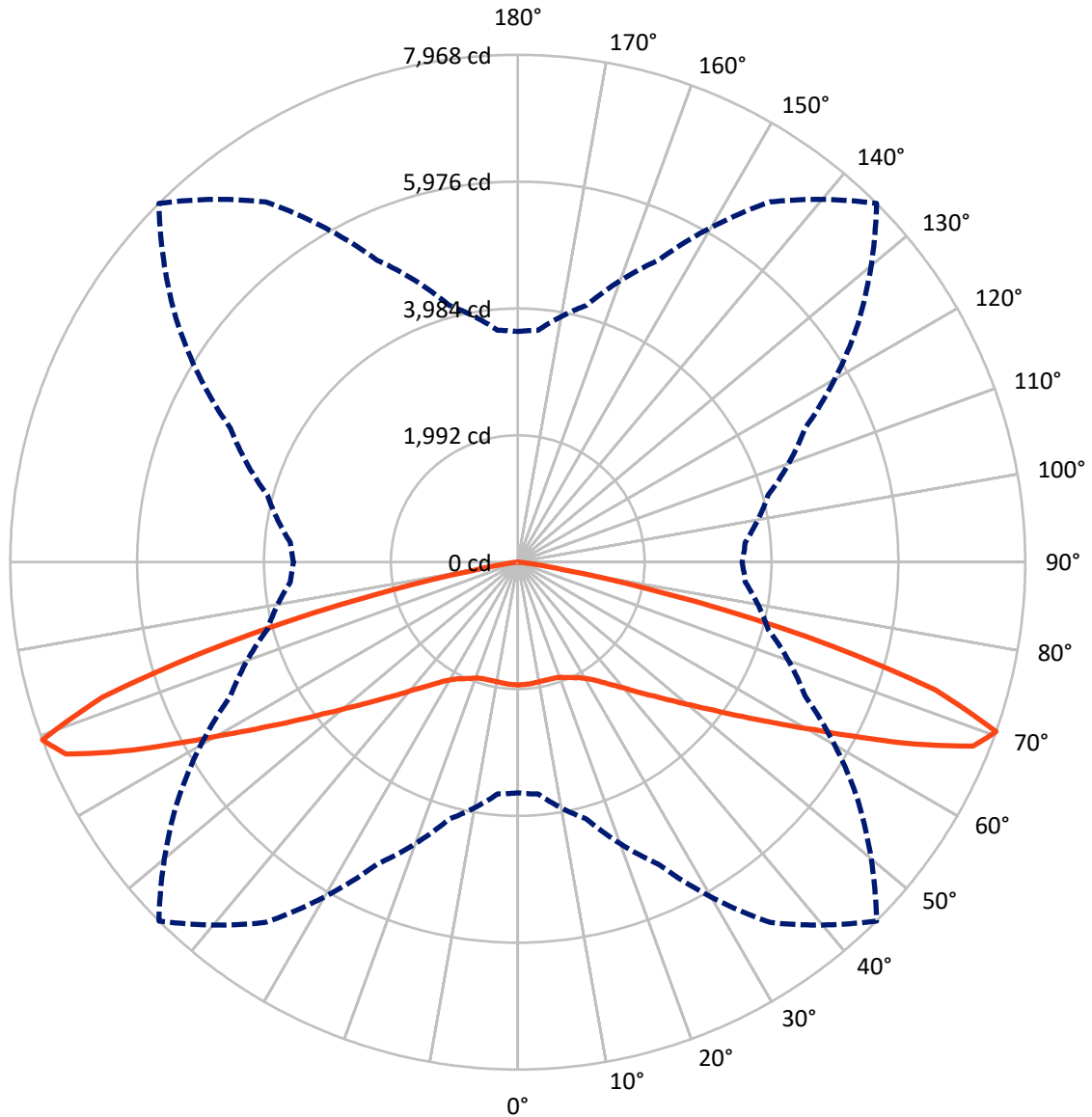
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8677.5	0.0	8677.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8677.5	0.0	8677.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17355.0	0.0	17355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	536.3	3.1
20°-30°	917.2	5.3
30°-40°	1455.8	8.4
40°-50°	2348.6	13.5
50°-60°	3821.2	22.0
60°-70°	5539.3	31.9
70°-80°	2457.0	14.2
80°-90°	96.9	0.6
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°	17355.0	100.0
0°-180°	17355.0	100.0

Coefficient of Utilization



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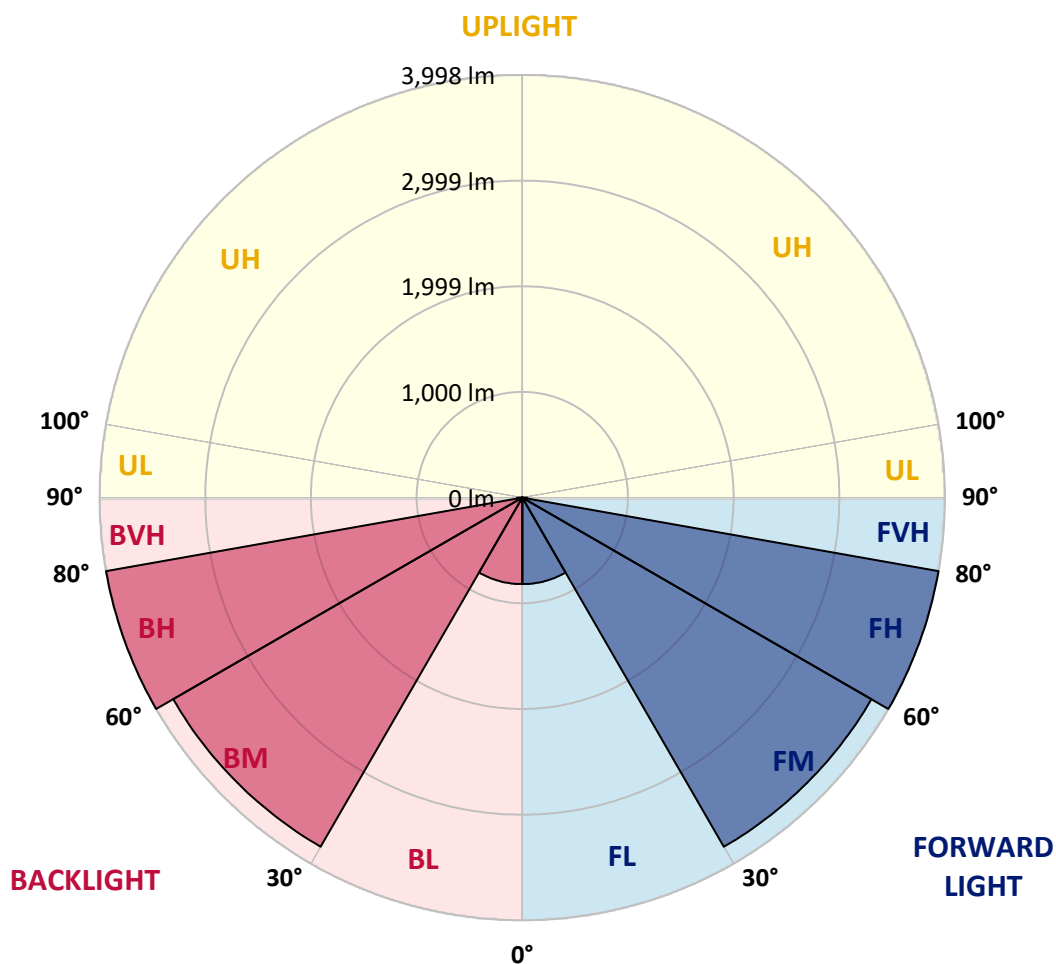
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.1	4.7			
FM	(30°-60°)	3812.8	22.0			
FH	(60°-80°)	3998.2	23.0			G2/5000
FVH	(80°-90°)	48.5	0.3			G1/100
BL	(0°-30°)	818.1	4.7	B2/1000		
BM	(30°-60°)	3812.8	22.0	B3/5000		
BH	(60°-80°)	3998.2	23.0	B4/5000		G2/5000
BVH	(80°-90°)	48.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2	1927.2
2.5°	1927.2	1929.0	1926.3	1924.4	1923.5	1923.5	1922.6	1923.5	1929.0	1929.9	1927.2
5°	1921.7	1923.5	1922.6	1920.8	1919.9	1919.9	1919.0	1918.0	1922.6	1924.4	1923.5
7.5°	1914.4	1915.3	1914.4	1913.5	1914.4	1913.5	1910.7	1908.9	1912.6	1912.6	1911.6
10°	1901.6	1903.4	1902.5	1903.4	1905.2	1905.2	1901.6	1897.9	1898.8	1897.0	1897.0
12.5°	1886.0	1888.8	1889.7	1893.3	1897.9	1903.4	1895.2	1886.9	1885.1	1884.2	1883.3
15°	1876.0	1878.7	1882.4	1886.0	1894.3	1906.2	1894.3	1881.5	1877.8	1874.1	1872.3
17.5°	1873.2	1876.9	1882.4	1887.9	1898.8	1910.7	1900.7	1887.9	1878.7	1873.2	1871.4
20°	1880.5	1883.3	1891.5	1901.6	1917.1	1929.0	1919.0	1905.2	1891.5	1883.3	1880.5
22.5°	1895.2	1899.8	1909.8	1928.1	1950.1	1967.4	1953.7	1930.8	1908.9	1897.9	1894.3
25°	1927.2	1930.8	1942.7	1967.4	1993.0	2009.5	1994.9	1968.4	1938.2	1923.5	1919.0
27.5°	1975.7	1981.2	1994.0	2023.2	2044.3	2053.4	2043.4	2025.1	2003.1	1987.6	1983.9
30°	2044.3	2050.7	2069.9	2101.0	2114.7	2120.2	2115.6	2103.7	2088.2	2071.7	2068.0
32.5°	2136.6	2140.3	2162.3	2191.5	2204.3	2206.2	2200.7	2195.2	2169.6	2142.1	2140.3
35°	2240.0	2246.4	2272.9	2307.7	2319.6	2320.5	2309.5	2301.3	2271.1	2249.2	2249.2
37.5°	2377.2	2379.9	2405.6	2444.9	2457.7	2454.0	2448.5	2441.2	2409.2	2380.9	2381.8
40°	2538.2	2543.7	2565.6	2611.4	2611.4	2606.8	2610.4	2605.0	2572.9	2545.5	2546.4
42.5°	2729.3	2732.1	2758.6	2807.1	2803.4	2794.3	2797.9	2790.6	2770.5	2739.4	2728.4
45°	2933.3	2944.3	2990.0	3036.7	3029.4	3000.1	3014.7	3012.9	2994.6	2948.0	2950.7
47.5°	3179.4	3197.7	3241.6	3297.4	3289.1	3243.4	3259.9	3270.8	3245.2	3194.0	3184.8
50°	3456.5	3468.4	3533.3	3585.5	3578.2	3529.7	3567.2	3569.0	3505.0	3432.7	3432.7
52.5°	3751.9	3763.8	3851.6	3933.0	3937.6	3867.2	3897.4	3895.5	3791.3	3696.1	3677.9
55°	4083.0	4088.5	4202.0	4321.8	4347.4	4278.8	4282.4	4245.9	4110.5	3999.8	3989.8
57.5°	4425.1	4445.3	4570.6	4726.1	4802.0	4759.9	4740.7	4642.8	4512.0	4384.9	4378.5
60°	4803.8	4804.7	4967.5	5151.4	5305.0	5333.4	5254.7	5123.9	4954.7	4786.4	4779.1
62.5°	5066.3	5105.6	5311.4	5622.4	5897.7	6056.9	5849.3	5574.9	5241.9	4970.3	4942.8
65°	5120.3	5146.8	5460.5	5987.4	6549.9	6892.9	6412.7	5829.1	5261.1	4898.9	4880.6
67.5°	4684.0	4712.3	5134.9	5943.5	7007.2	7710.6	6778.6	5706.6	4935.5	4487.3	4451.7
70°	3623.0	3655.0	4177.3	5231.9	6905.7	7967.6	6517.9	4977.6	4070.2	3586.4	3521.4
72.5°	1926.3	2044.3	2490.6	3591.0	5605.0	6860.0	5344.4	3632.1	2625.1	2145.8	2059.8
75°	703.4	718.0	966.8	1592.4	3260.8	4704.1	3386.1	1732.4	996.1	769.2	729.9
77.5°	290.9	289.9	318.3	481.1	1184.5	2409.2	1321.7	508.6	317.4	293.6	289.9
80°	172.0	172.0	189.3	200.3	311.9	727.2	348.5	226.8	190.2	173.8	176.5
82.5°	76.8	81.4	119.8	126.2	150.9	199.4	168.3	144.5	124.4	86.0	77.7
85°	42.1	36.6	63.1	65.9	72.3	74.1	79.6	78.7	72.3	42.1	43.0
87.5°	8.2	10.1	18.3	13.7	15.5	13.7	18.3	25.6	26.5	14.6	11.9
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)