

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: P454047

Luminaire Tested: **GALN-SA5A-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454047
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-SA5A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17657 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

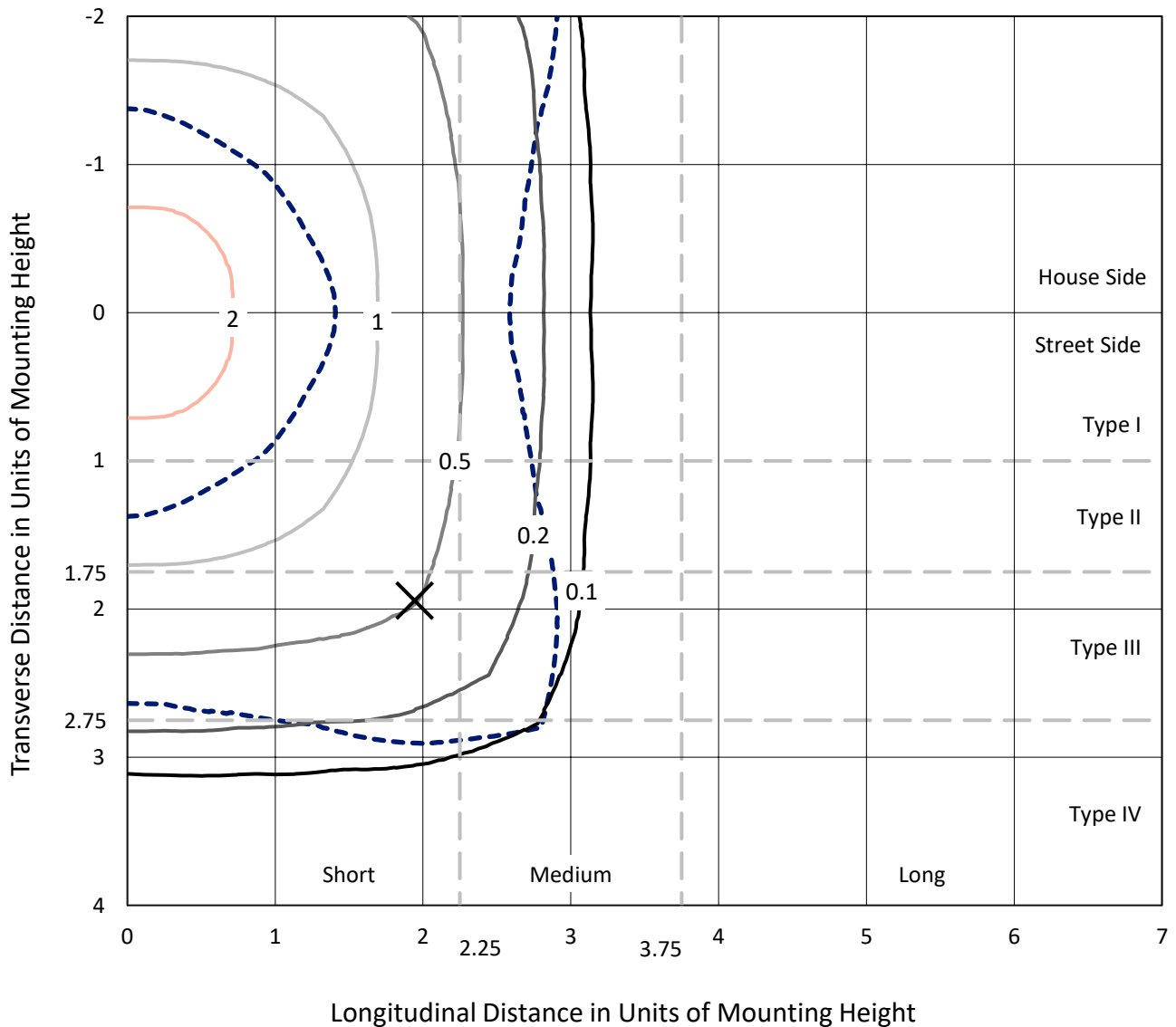
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

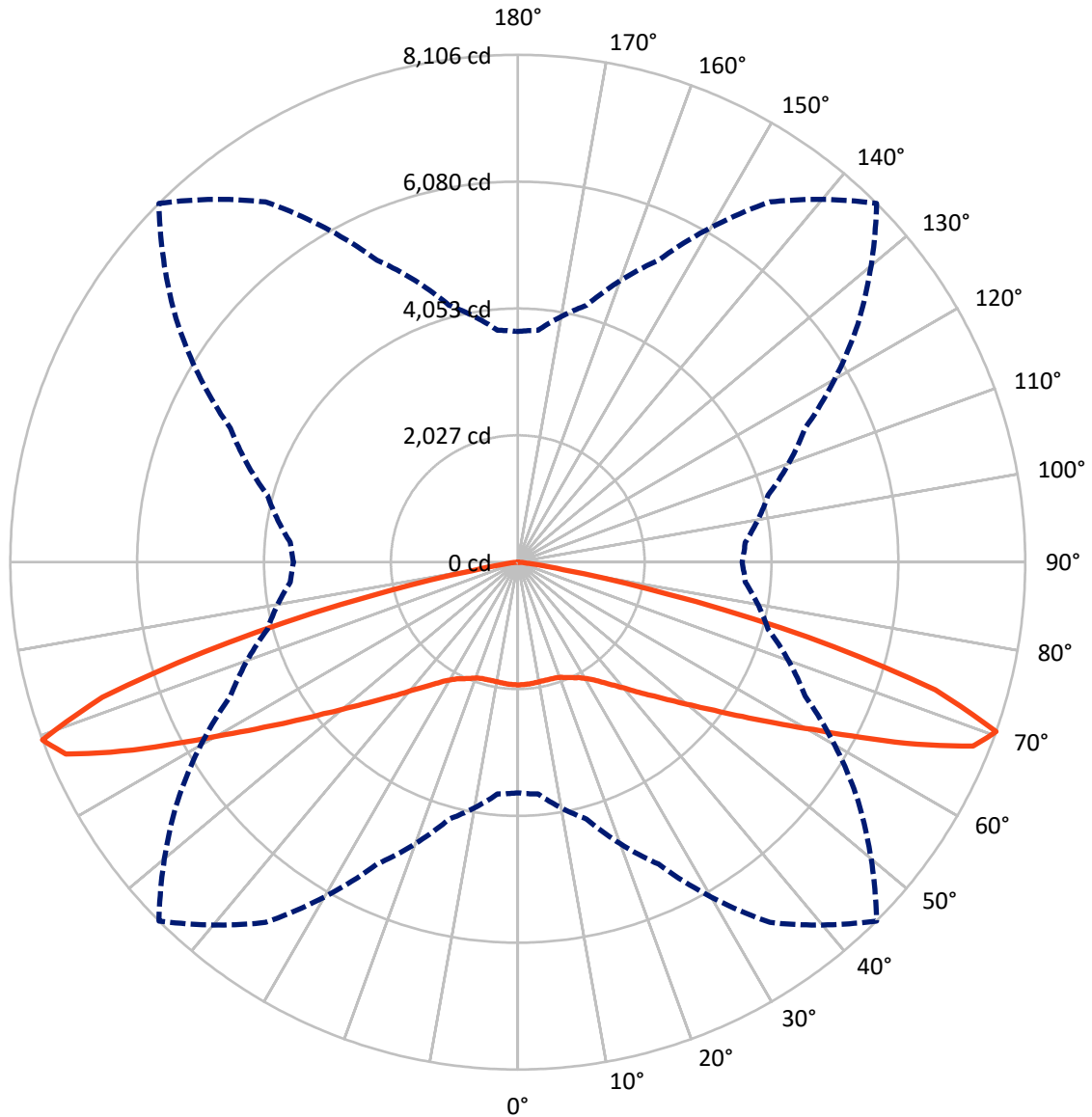
× Max cd
 - - - 1/2 Max cd



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	8828.5	0.0	8828.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8828.5	0.0	8828.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17657.0	0.0	17657.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	1.1
10°-20°	545.6	3.1
20°-30°	933.2	5.3
30°-40°	1481.1	8.4
40°-50°	2389.4	13.5
50°-60°	3887.7	22.0
60°-70°	5635.7	31.9
70°-80°	2499.8	14.2
80°-90°	98.6	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°	17657.0	100.0
0°-180°	17657.0	100.0



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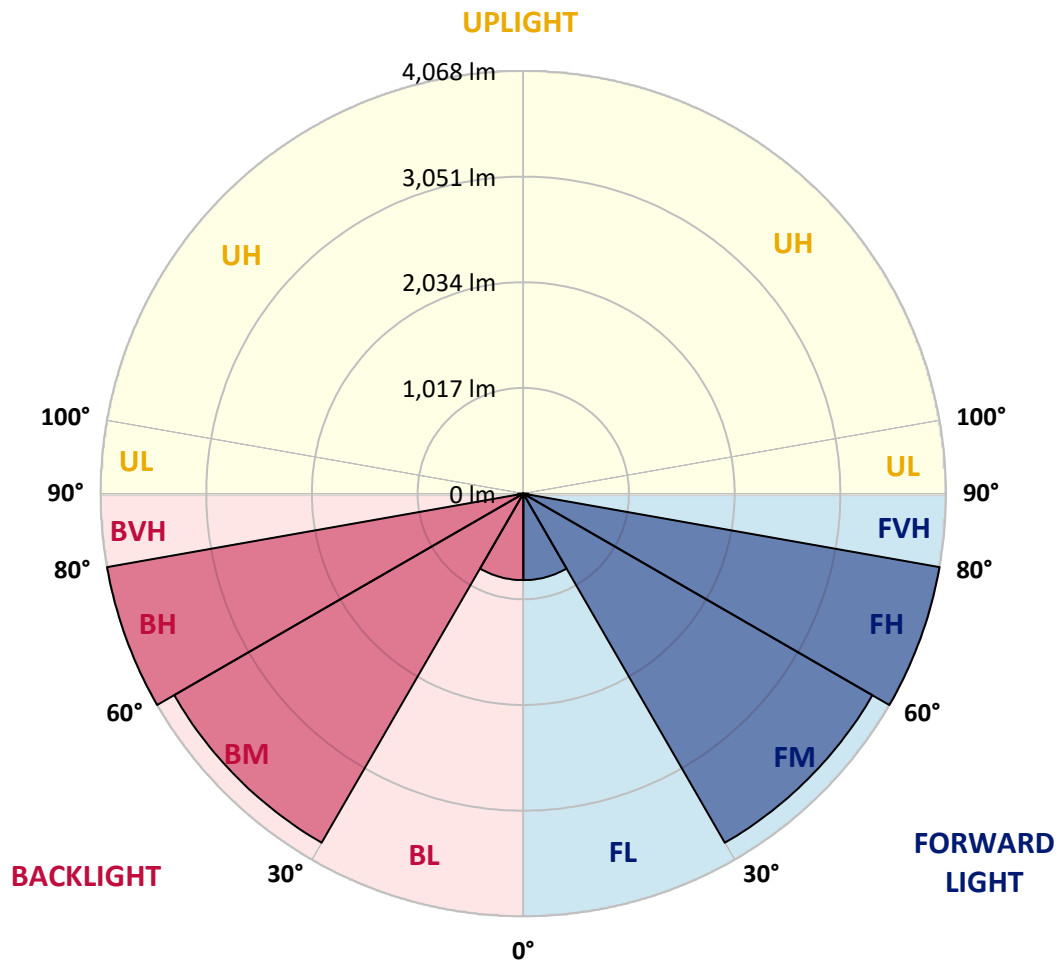
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	832.3	4.7			
FM	(30°-60°)	3879.1	22.0			
FH	(60°-80°)	4067.8	23.0			G2/5000
FVH	(80°-90°)	49.3	0.3			G1/100
BL	(0°-30°)	832.3	4.7	B2/1000		
BM	(30°-60°)	3879.1	22.0	B3/5000		
BH	(60°-80°)	4067.8	23.0	B4/5000		G2/5000
BVH	(80°-90°)	49.3	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°	1960.7	1960.7	1960.7	1960.7	1960.7	1960.7	1960.7	1960.7	1960.7	1960.7	1960.7
2.5°	1960.7	1962.6	1959.8	1957.9	1957.0	1957.0	1956.1	1957.0	1962.6	1963.5	1960.7
5°	1955.1	1957.0	1956.1	1954.2	1953.3	1953.3	1952.4	1951.4	1956.1	1957.9	1957.0
7.5°	1947.7	1948.6	1947.7	1946.8	1947.7	1946.8	1944.0	1942.1	1945.8	1945.8	1944.9
10°	1934.7	1936.5	1935.6	1936.5	1938.4	1938.4	1934.7	1930.9	1931.9	1930.0	1930.0
12.5°	1918.9	1921.6	1922.6	1926.3	1930.9	1936.5	1928.2	1919.8	1917.9	1917.0	1916.1
15°	1908.6	1911.4	1915.1	1918.9	1927.2	1939.3	1927.2	1914.2	1910.5	1906.8	1904.9
17.5°	1905.8	1909.5	1915.1	1920.7	1931.9	1944.0	1933.7	1920.7	1911.4	1905.8	1904.0
20°	1913.3	1916.1	1924.4	1934.7	1950.5	1962.6	1952.4	1938.4	1924.4	1916.1	1913.3
22.5°	1928.2	1932.8	1943.0	1961.7	1984.0	2001.7	1987.7	1964.4	1942.1	1930.9	1927.2
25°	1960.7	1964.4	1976.5	2001.7	2027.7	2044.5	2029.6	2002.6	1971.9	1957.0	1952.4
27.5°	2010.0	2015.6	2028.7	2058.4	2079.8	2089.1	2078.9	2060.3	2038.0	2022.1	2018.4
30°	2079.8	2086.4	2105.9	2137.5	2151.5	2157.1	2152.4	2140.3	2124.5	2107.8	2104.0
32.5°	2173.8	2177.6	2199.9	2229.7	2242.7	2244.6	2239.0	2233.4	2207.3	2179.4	2177.6
35°	2279.0	2285.5	2312.5	2347.8	2359.9	2360.9	2349.7	2341.3	2310.6	2288.3	2288.3
37.5°	2418.6	2421.4	2447.4	2487.4	2500.5	2496.7	2491.2	2483.7	2451.1	2422.3	2423.2
40°	2582.4	2587.9	2610.3	2656.8	2656.8	2652.1	2655.9	2650.3	2617.7	2589.8	2590.7
42.5°	2776.8	2779.6	2806.6	2855.9	2852.2	2842.9	2846.6	2839.2	2818.7	2787.1	2775.9
45°	2984.4	2995.5	3042.1	3089.5	3082.1	3052.3	3067.2	3065.3	3046.7	2999.3	3002.0
47.5°	3234.7	3253.3	3298.0	3354.7	3346.4	3299.8	3316.6	3327.7	3301.7	3249.6	3240.3
50°	3516.7	3528.7	3594.8	3647.9	3640.4	3591.1	3629.3	3631.1	3566.0	3492.5	3492.5
52.5°	3817.2	3829.3	3918.7	4001.5	4006.1	3934.5	3965.2	3963.3	3857.2	3760.5	3741.9
55°	4154.1	4159.7	4275.1	4397.0	4423.0	4353.2	4357.0	4319.7	4182.0	4069.4	4059.2
57.5°	4502.1	4522.6	4650.1	4808.3	4885.5	4842.7	4823.2	4723.6	4590.5	4461.2	4454.7
60°	4887.4	4888.3	5054.0	5241.0	5397.3	5426.2	5346.2	5213.1	5040.9	4869.7	4862.3
62.5°	5154.5	5194.5	5403.9	5720.3	6000.4	6162.3	5951.0	5671.9	5333.1	5056.8	5028.8
65°	5209.4	5236.4	5555.5	6091.6	6663.9	7012.8	6524.3	5930.6	5352.7	4984.2	4965.6
67.5°	4765.5	4794.3	5224.3	6046.9	7129.2	7844.8	6896.5	5805.9	5021.4	4565.4	4529.1
70°	3686.0	3718.6	4249.9	5322.9	7025.9	8106.3	6631.3	5064.2	4141.1	3648.8	3582.7
72.5°	1959.8	2079.8	2534.0	3653.4	5702.6	6979.3	5437.4	3695.3	2670.8	2183.1	2095.7
75°	715.6	730.5	983.6	1620.1	3317.5	4786.0	3445.0	1762.5	1013.4	782.6	742.6
77.5°	295.9	295.0	323.8	489.5	1205.1	2451.1	1344.7	517.4	322.9	298.7	295.0
80°	174.9	174.9	192.6	203.8	317.3	739.8	354.5	230.8	193.6	176.8	179.6
82.5°	78.2	82.8	121.9	128.4	153.5	202.9	171.2	147.0	126.6	87.5	79.1
85°	42.8	37.2	64.2	67.0	73.5	75.4	81.0	80.0	73.5	42.8	43.7
87.5°	8.4	10.2	18.6	14.0	15.8	14.0	18.6	26.1	27.0	14.9	12.1
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)