

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: P458861

Luminaire Tested: **GALN-SA4A-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458861
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-SA4A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 17675 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

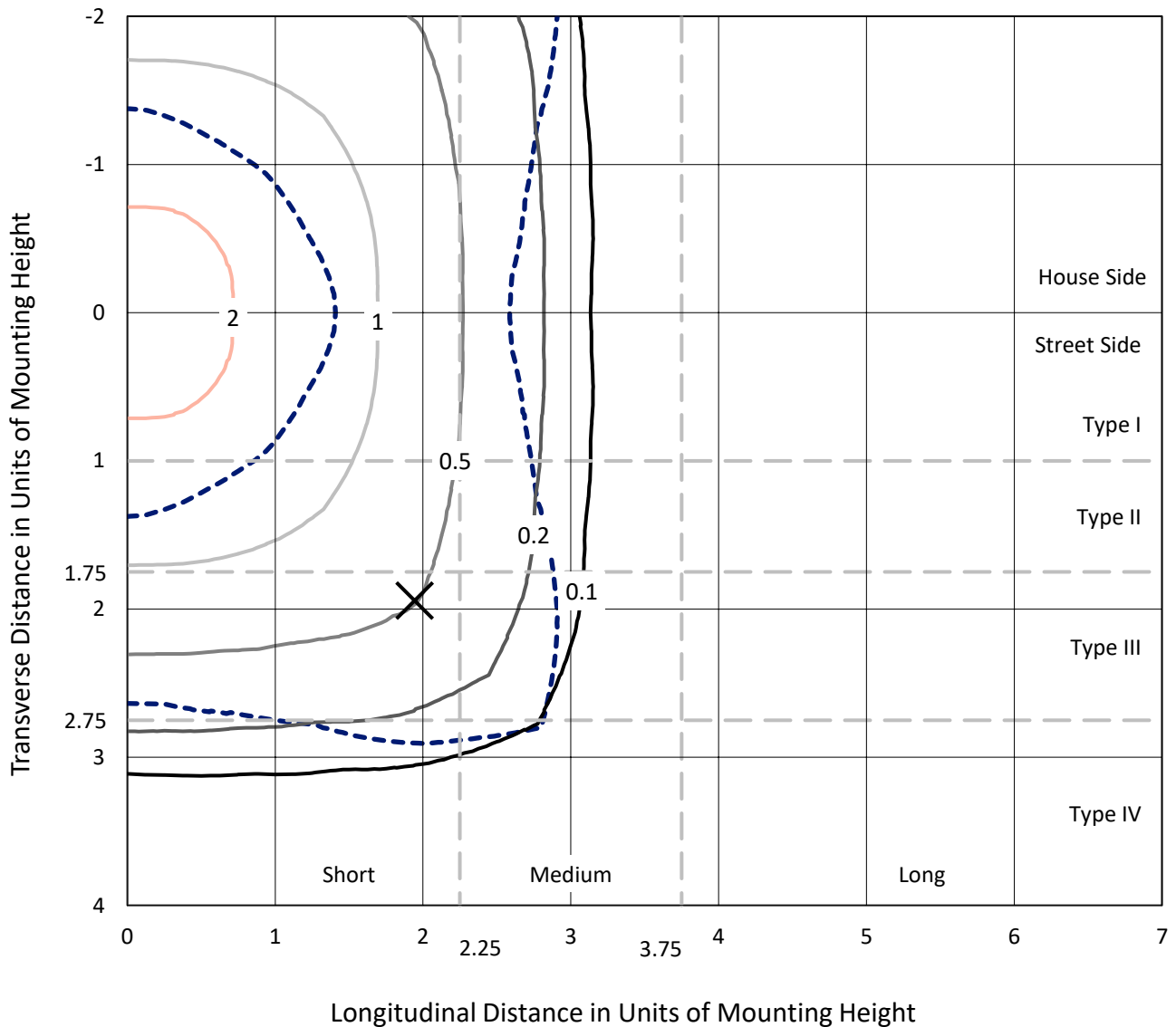
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

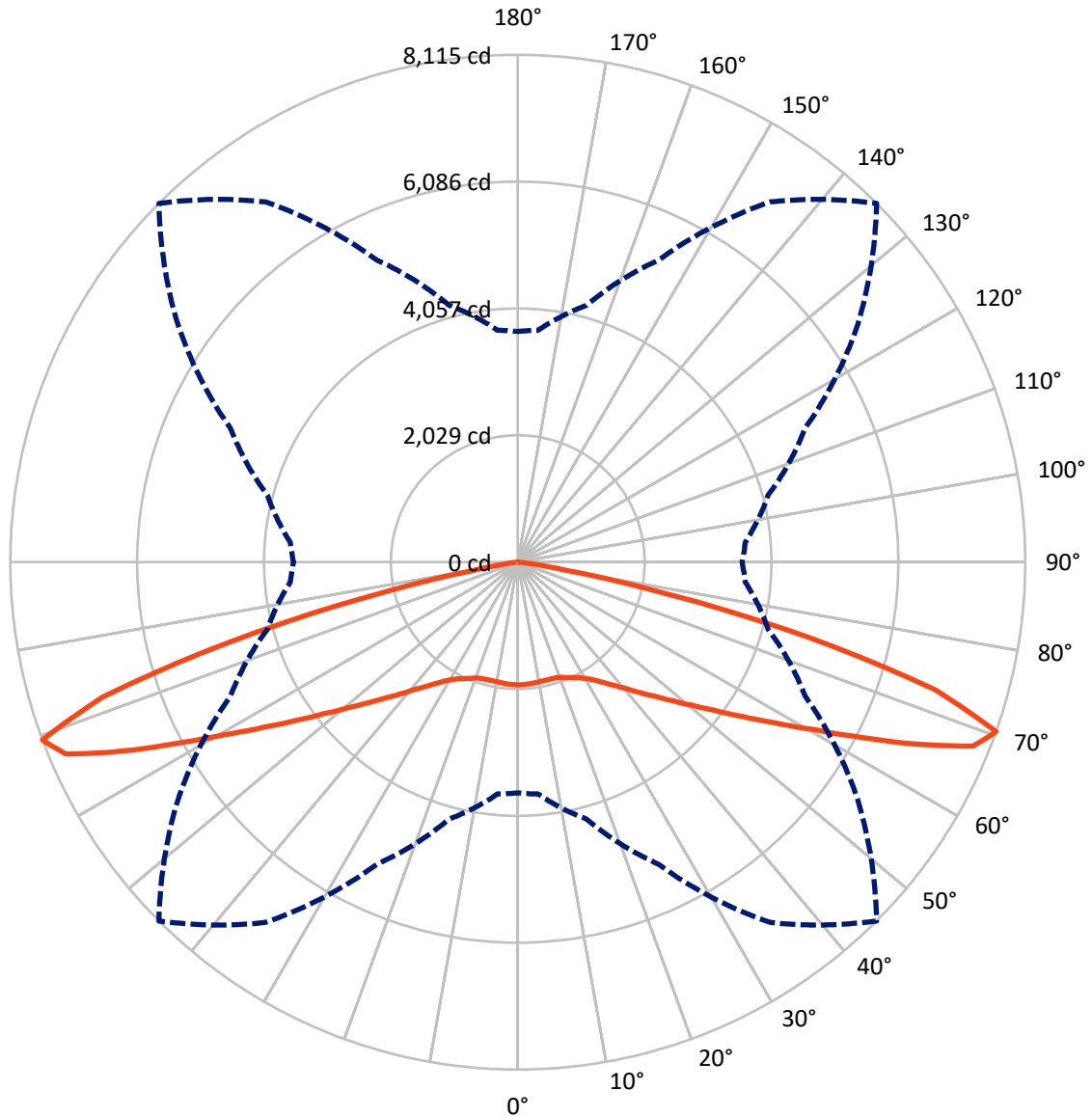
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	8837.5	0.0	8837.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8837.5	0.0	8837.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17675.0	0.0	17675.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.1
10°-20°	546.2	3.1
20°-30°	934.1	5.3
30°-40°	1482.6	8.4
40°-50°	2391.9	13.5
50°-60°	3891.6	22.0
60°-70°	5641.5	31.9
70°-80°	2502.3	14.2
80°-90°	98.7	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°	17675.0	100.0
0°-180°	17675.0	100.0



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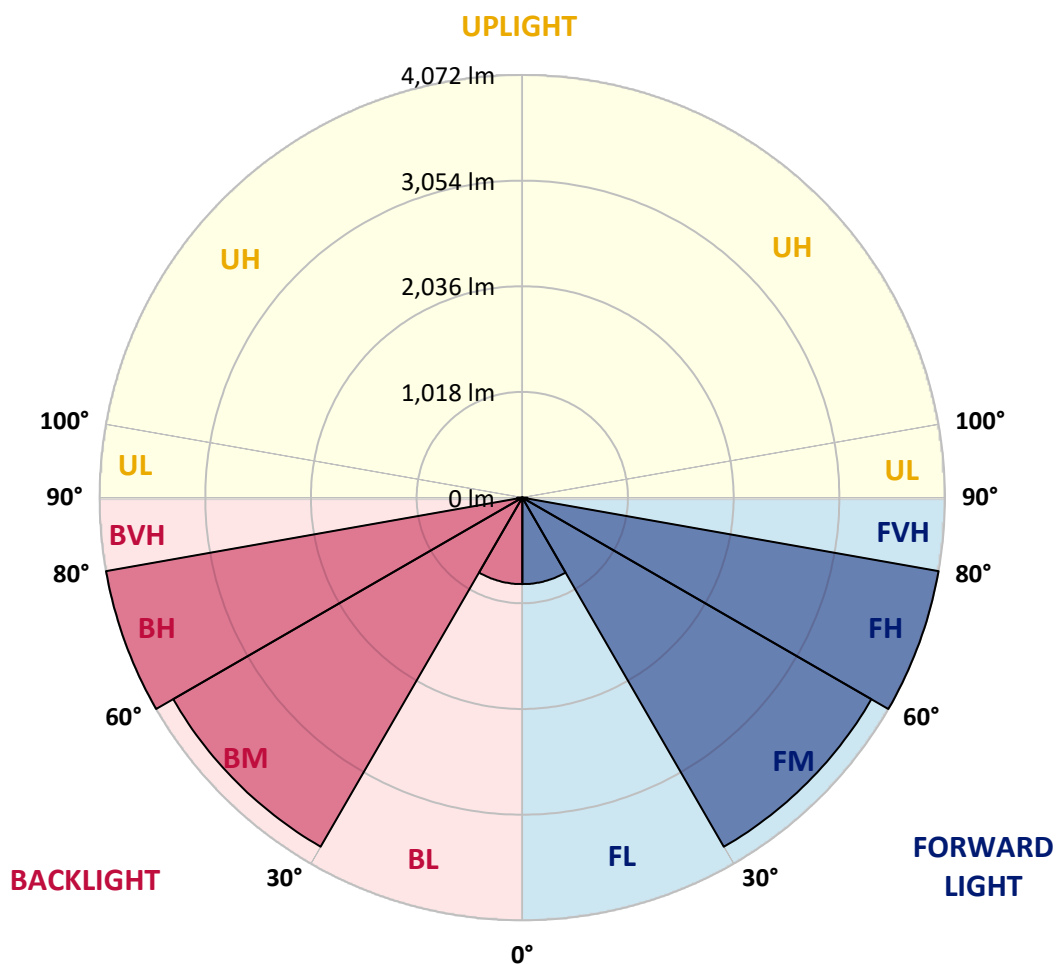
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	833.2	4.7			
FM	(30°-60°)	3883.1	22.0			
FH	(60°-80°)	4071.9	23.0			G2/5000
FVH	(80°-90°)	49.4	0.3			G1/100
BL	(0°-30°)	833.2	4.7	B2/1000		
BM	(30°-60°)	3883.1	22.0	B3/5000		
BH	(60°-80°)	4071.9	23.0	B4/5000		G2/5000
BVH	(80°-90°)	49.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1962.7	1962.7	1962.7	1962.7	1962.7	1962.7	1962.7	1962.7	1962.7	1962.7	1962.7
2.5°	1962.7	1964.6	1961.8	1959.9	1959.0	1959.0	1958.1	1959.0	1964.6	1965.5	1962.7
5°	1957.1	1959.0	1958.1	1956.2	1955.3	1955.3	1954.3	1953.4	1958.1	1959.9	1959.0
7.5°	1949.7	1950.6	1949.7	1948.8	1949.7	1948.8	1946.0	1944.1	1947.8	1947.8	1946.9
10°	1936.6	1938.5	1937.6	1938.5	1940.4	1940.4	1936.6	1932.9	1933.8	1932.0	1932.0
12.5°	1920.8	1923.6	1924.5	1928.3	1932.9	1938.5	1930.1	1921.7	1919.9	1918.9	1918.0
15°	1910.6	1913.4	1917.1	1920.8	1929.2	1941.3	1929.2	1916.1	1912.4	1908.7	1906.8
17.5°	1907.8	1911.5	1917.1	1922.7	1933.8	1946.0	1935.7	1922.7	1913.4	1907.8	1905.9
20°	1915.2	1918.0	1926.4	1936.6	1952.5	1964.6	1954.3	1940.4	1926.4	1918.0	1915.2
22.5°	1930.1	1934.8	1945.0	1963.7	1986.0	2003.7	1989.7	1966.5	1944.1	1932.9	1929.2
25°	1962.7	1966.5	1978.6	2003.7	2029.8	2046.6	2031.7	2004.6	1973.9	1959.0	1954.3
27.5°	2012.1	2017.7	2030.7	2060.5	2082.0	2091.3	2081.0	2062.4	2040.0	2024.2	2020.5
30°	2082.0	2088.5	2108.0	2139.7	2153.7	2159.3	2154.6	2142.5	2126.7	2109.9	2106.2
32.5°	2176.0	2179.8	2202.1	2231.9	2245.0	2246.8	2241.3	2235.7	2209.6	2181.6	2179.8
35°	2281.3	2287.8	2314.8	2350.2	2362.4	2363.3	2352.1	2343.7	2313.0	2290.6	2290.6
37.5°	2421.0	2423.8	2449.9	2490.0	2503.0	2499.3	2493.7	2486.2	2453.6	2424.8	2425.7
40°	2585.0	2590.6	2612.9	2659.5	2659.5	2654.8	2658.6	2653.0	2620.4	2592.4	2593.4
42.5°	2779.7	2782.5	2809.5	2858.9	2855.1	2845.8	2849.5	2842.1	2821.6	2789.9	2778.7
45°	2987.4	2998.6	3045.2	3092.7	3085.2	3055.4	3070.3	3068.4	3049.8	3002.3	3005.1
47.5°	3238.0	3256.6	3301.3	3358.2	3349.8	3303.2	3320.0	3331.1	3305.1	3252.9	3243.6
50°	3520.2	3532.3	3598.5	3651.6	3644.1	3594.8	3633.0	3634.8	3569.6	3496.0	3496.0
52.5°	3821.1	3833.2	3922.7	4005.6	4010.2	3938.5	3969.2	3967.4	3861.2	3764.3	3745.7
55°	4158.3	4163.9	4279.4	4401.5	4427.5	4357.7	4361.4	4324.1	4186.3	4073.6	4063.3
57.5°	4506.7	4527.2	4654.8	4813.2	4890.5	4847.7	4828.1	4728.4	4595.2	4465.7	4459.2
60°	4892.4	4893.3	5059.1	5246.4	5402.9	5431.7	5351.6	5218.4	5046.1	4874.7	4867.2
62.5°	5159.7	5199.8	5409.4	5726.1	6006.5	6168.6	5957.1	5677.7	5338.6	5061.9	5034.0
65°	5214.7	5241.7	5561.2	6097.8	6670.7	7020.0	6530.9	5936.6	5358.1	4989.3	4970.6
67.5°	4770.3	4799.2	5229.6	6053.1	7136.4	7852.8	6903.5	5811.8	5026.5	4570.1	4533.7
70°	3689.8	3722.4	4254.3	5328.3	7033.0	8114.5	6638.1	5069.4	4145.3	3652.5	3586.4
72.5°	1961.8	2082.0	2536.5	3657.2	5708.4	6986.4	5442.9	3699.1	2673.5	2185.4	2097.8
75°	716.3	731.2	984.6	1621.8	3320.9	4790.8	3448.5	1764.3	1014.4	783.4	743.4
77.5°	296.2	295.3	324.2	490.0	1206.3	2453.6	1346.1	517.9	323.2	299.0	295.3
80°	175.1	175.1	192.8	204.0	317.7	740.6	354.9	231.0	193.8	177.0	179.8
82.5°	78.2	82.9	122.0	128.6	153.7	203.1	171.4	147.2	126.7	87.6	79.2
85°	42.9	37.3	64.3	67.1	73.6	75.5	81.0	80.1	73.6	42.9	43.8
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)