

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: P453003

Luminaire Tested: **GALN-SA4A-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453003  
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-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 17280 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

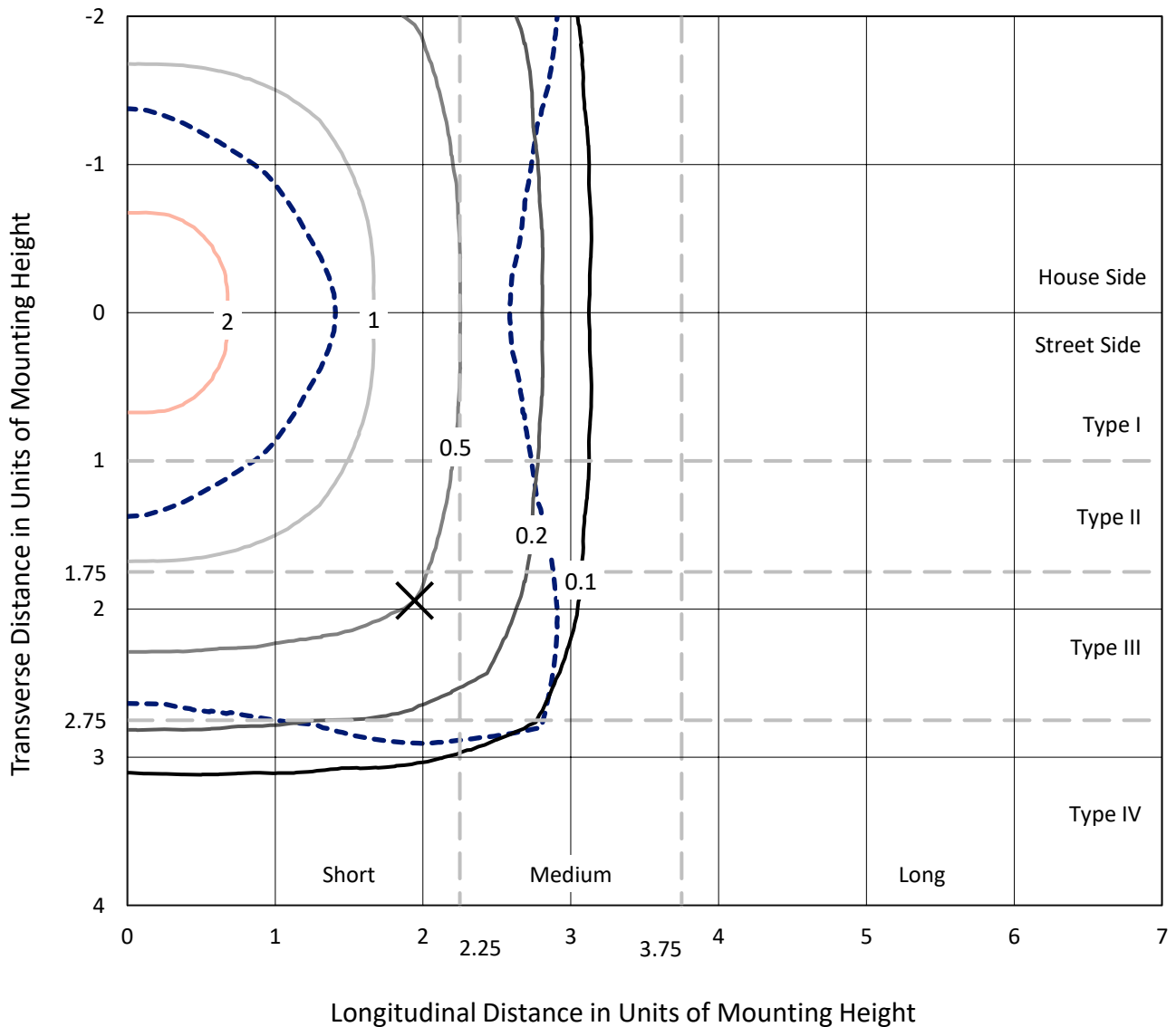
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

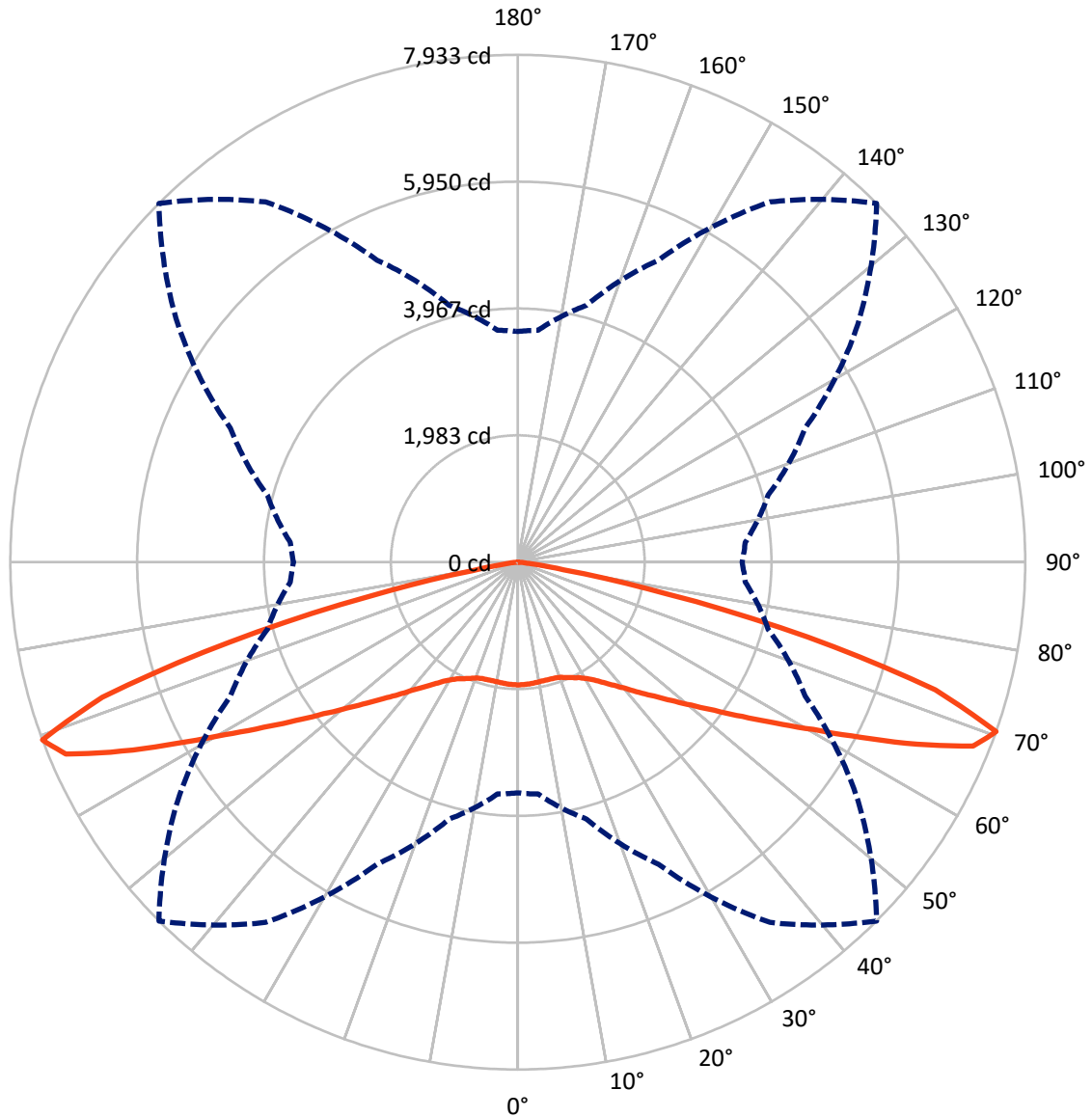
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8640.0	0.0	8640.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8640.0	0.0	8640.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17280.0	0.0	17280.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.0	1.1
10°-20°	534.0	3.1
20°-30°	913.2	5.3
30°-40°	1449.5	8.4
40°-50°	2338.4	13.5
50°-60°	3804.6	22.0
60°-70°	5515.4	31.9
70°-80°	2446.4	14.2
80°-90°	96.5	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°	17280.0	100.0
0°-180°	17280.0	100.0

**Coefficient of Utilization**



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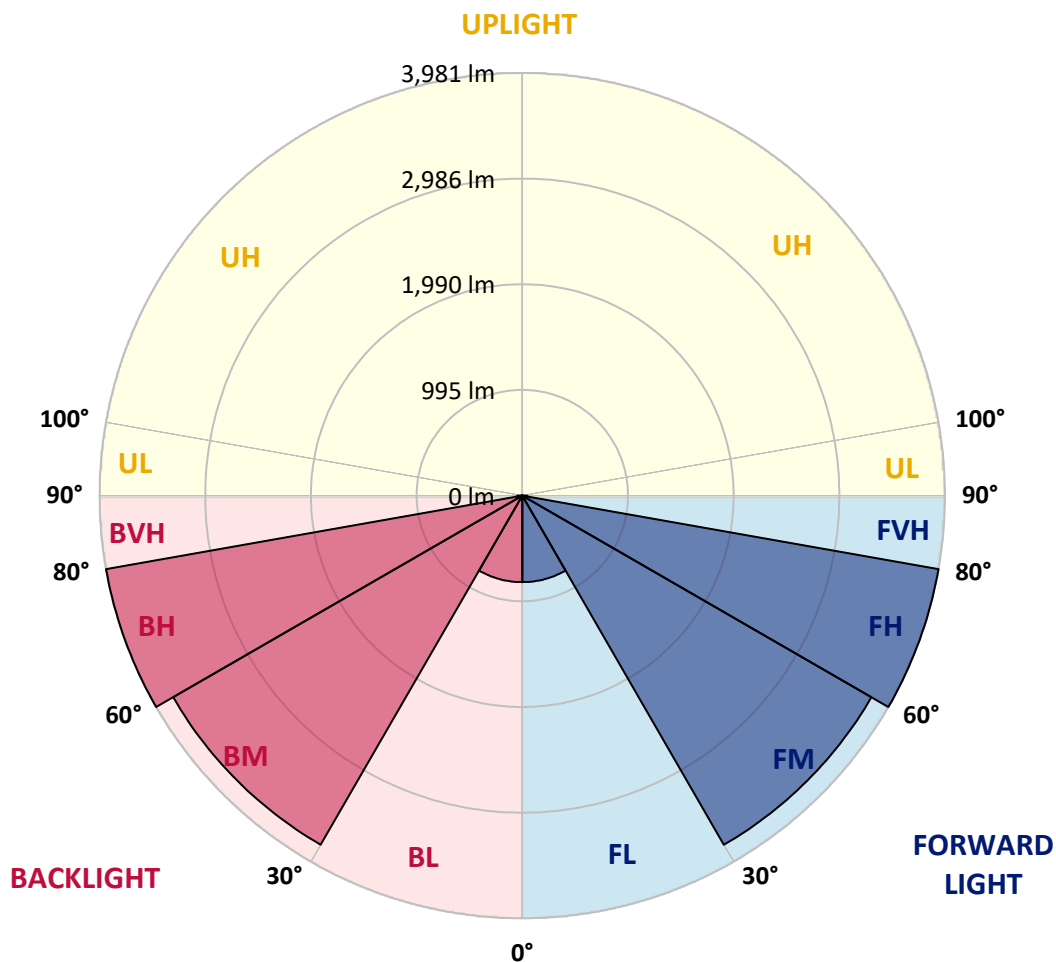
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.6	4.7			
FM (30°-60°)	3796.3	22.0			
FH (60°-80°)	3980.9	23.0			G2/5000
FVH (80°-90°)	48.2	0.3			G1/100
BL (0°-30°)	814.6	4.7	B2/1000		
BM (30°-60°)	3796.3	22.0	B3/5000		
BH (60°-80°)	3980.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	48.2	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°	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9	1918.9
2.5°	1918.9	1920.7	1918.0	1916.1	1915.2	1915.2	1914.3	1915.2	1920.7	1921.6	1918.9
5°	1913.4	1915.2	1914.3	1912.5	1911.6	1911.6	1910.7	1909.8	1914.3	1916.1	1915.2
7.5°	1906.1	1907.0	1906.1	1905.2	1906.1	1905.2	1902.5	1900.6	1904.3	1904.3	1903.4
10°	1893.4	1895.2	1894.3	1895.2	1897.0	1897.0	1893.4	1889.7	1890.6	1888.8	1888.8
12.5°	1877.9	1880.6	1881.5	1885.2	1889.7	1895.2	1887.0	1878.8	1877.0	1876.1	1875.1
15°	1867.9	1870.6	1874.2	1877.9	1886.1	1897.9	1886.1	1873.3	1869.7	1866.0	1864.2
17.5°	1865.1	1868.8	1874.2	1879.7	1890.6	1902.5	1892.5	1879.7	1870.6	1865.1	1863.3
20°	1872.4	1875.1	1883.3	1893.4	1908.8	1920.7	1910.7	1897.0	1883.3	1875.1	1872.4
22.5°	1887.0	1891.5	1901.6	1919.8	1941.6	1958.9	1945.3	1922.5	1900.6	1889.7	1886.1
25°	1918.9	1922.5	1934.3	1958.9	1984.4	2000.8	1986.3	1959.8	1929.8	1915.2	1910.7
27.5°	1967.1	1972.6	1985.3	2014.5	2035.4	2044.5	2034.5	2016.3	1994.5	1979.0	1975.3
30°	2035.4	2041.8	2060.9	2091.9	2105.6	2111.0	2106.5	2094.6	2079.1	2062.8	2059.1
32.5°	2127.4	2131.1	2152.9	2182.1	2194.8	2196.6	2191.2	2185.7	2160.2	2132.9	2131.1
35°	2230.3	2236.7	2263.1	2297.7	2309.6	2310.5	2299.5	2291.3	2261.3	2239.4	2239.4
37.5°	2366.9	2369.7	2395.2	2434.3	2447.1	2443.4	2438.0	2430.7	2398.8	2370.6	2371.5
40°	2527.2	2532.7	2554.5	2600.1	2600.1	2595.5	2599.2	2593.7	2561.8	2534.5	2535.4
42.5°	2717.6	2720.3	2746.7	2795.0	2791.3	2782.2	2785.9	2778.6	2758.5	2727.6	2716.6
45°	2920.6	2931.6	2977.1	3023.6	3016.3	2987.1	3001.7	2999.9	2981.7	2935.2	2937.9
47.5°	3165.6	3183.8	3227.6	3283.1	3274.9	3229.4	3245.8	3256.7	3231.2	3180.2	3171.1
50°	3441.6	3453.4	3518.1	3570.0	3562.7	3514.4	3551.8	3553.6	3489.8	3417.9	3417.9
52.5°	3735.7	3747.6	3835.0	3916.0	3920.6	3850.5	3880.5	3878.7	3774.9	3680.2	3662.0
55°	4065.4	4070.9	4183.8	4303.1	4328.6	4260.3	4263.9	4227.5	4092.7	3982.5	3972.5
57.5°	4406.0	4426.0	4550.8	4705.6	4781.2	4739.3	4720.2	4622.8	4492.5	4365.9	4359.6
60°	4783.0	4784.0	4946.1	5129.1	5282.1	5310.3	5232.0	5101.8	4933.3	4765.7	4758.5
62.5°	5044.4	5083.6	5288.5	5598.1	5872.2	6030.7	5824.0	5550.8	5219.3	4948.8	4921.5
65°	5098.1	5124.6	5436.9	5961.5	6521.6	6863.1	6385.0	5803.9	5238.4	4877.8	4859.5
67.5°	4663.7	4692.0	5112.7	5917.8	6976.9	7677.3	6749.3	5681.9	4914.2	4467.9	4432.4
70°	3607.3	3639.2	4159.2	5209.3	6875.8	7933.2	6489.7	4956.1	4052.7	3570.9	3506.2
72.5°	1918.0	2035.4	2479.9	3575.4	5580.8	6830.3	5321.3	3616.4	2613.7	2136.5	2050.9
75°	700.3	714.9	962.6	1585.5	3246.7	4683.8	3371.4	1724.9	991.8	765.9	726.7
77.5°	289.6	288.7	316.9	479.0	1179.4	2398.8	1316.0	506.4	316.0	292.3	288.7
80°	171.2	171.2	188.5	199.4	310.6	724.0	347.0	225.9	189.4	173.0	175.8
82.5°	76.5	81.1	119.3	125.7	150.3	198.5	167.6	143.9	123.9	85.6	77.4
85°	41.9	36.4	62.8	65.6	71.9	73.8	79.2	78.3	71.9	41.9	42.8
87.5°	8.2	10.0	18.2	13.7	15.5	13.7	18.2	25.5	26.4	14.6	11.8
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)