

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: P452307

Luminaire Tested: **GALN-SA3B-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452307  
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-SA3B-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 16225 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

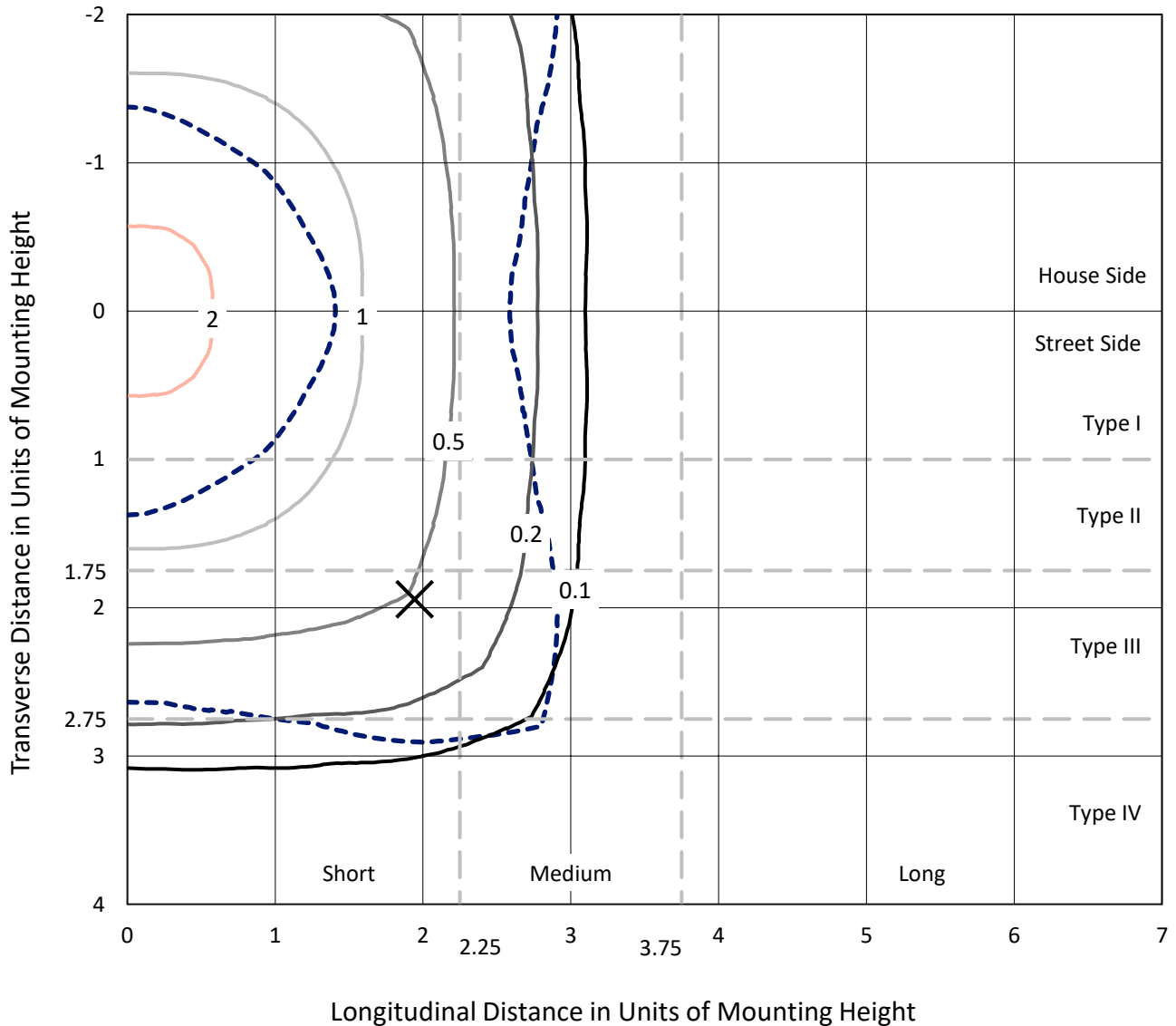
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

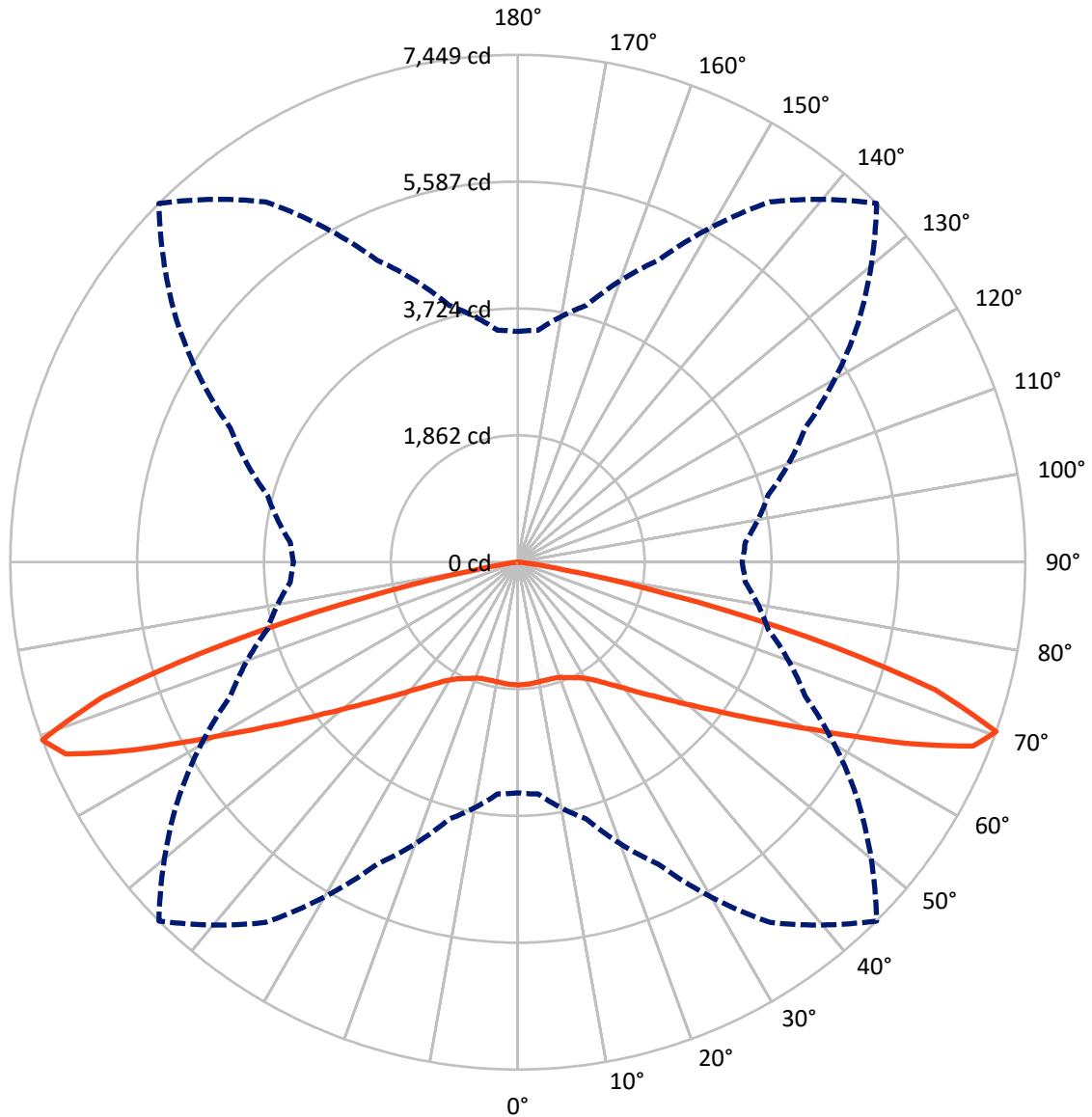
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	8112.5	0.0	8112.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8112.5	0.0	8112.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16225.0	0.0	16225.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	1.1
10°-20°	501.4	3.1
20°-30°	857.5	5.3
30°-40°	1361.0	8.4
40°-50°	2195.6	13.5
50°-60°	3572.4	22.0
60°-70°	5178.6	31.9
70°-80°	2297.1	14.2
80°-90°	90.6	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°	16225.0	100.0
0°-180°	16225.0	100.0



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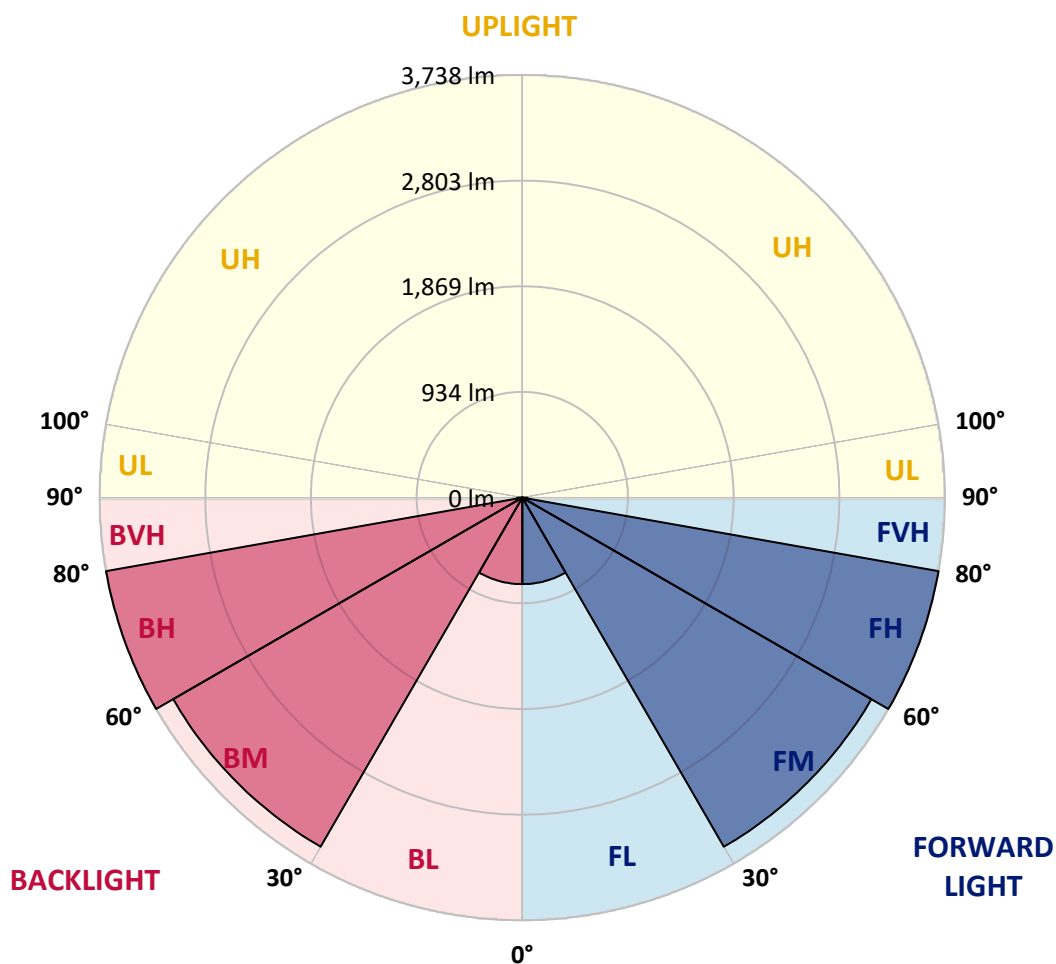
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.8	4.7			
FM (30°-60°)	3564.5	22.0			
FH (60°-80°)	3737.9	23.0			G2/5000
FVH (80°-90°)	45.3	0.3			G1/100
BL (0°-30°)	764.8	4.7	B2/1000		
BM (30°-60°)	3564.5	22.0	B3/5000		
BH (60°-80°)	3737.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	45.3	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°	1801.7	1801.7	1801.7	1801.7	1801.7	1801.7	1801.7	1801.7	1801.7	1801.7	1801.7
2.5°	1801.7	1803.4	1800.9	1799.1	1798.3	1798.3	1797.4	1798.3	1803.4	1804.3	1801.7
5°	1796.6	1798.3	1797.4	1795.7	1794.9	1794.9	1794.0	1793.2	1797.4	1799.1	1798.3
7.5°	1789.7	1790.6	1789.7	1788.9	1789.7	1788.9	1786.3	1784.6	1788.0	1788.0	1787.2
10°	1777.8	1779.5	1778.6	1779.5	1781.2	1781.2	1777.8	1774.3	1775.2	1773.5	1773.5
12.5°	1763.2	1765.8	1766.7	1770.1	1774.3	1779.5	1771.8	1764.1	1762.4	1761.5	1760.7
15°	1753.8	1756.4	1759.8	1763.2	1770.9	1782.0	1770.9	1759.0	1755.5	1752.1	1750.4
17.5°	1751.3	1754.7	1759.8	1764.9	1775.2	1786.3	1776.9	1764.9	1756.4	1751.3	1749.5
20°	1758.1	1760.7	1768.4	1777.8	1792.3	1803.4	1794.0	1781.2	1768.4	1760.7	1758.1
22.5°	1771.8	1776.1	1785.5	1802.6	1823.1	1839.3	1826.5	1805.1	1784.6	1774.3	1770.9
25°	1801.7	1805.1	1816.2	1839.3	1863.3	1878.7	1865.0	1840.2	1812.0	1798.3	1794.0
27.5°	1847.0	1852.2	1864.1	1891.5	1911.2	1919.7	1910.3	1893.2	1872.7	1858.1	1854.7
30°	1911.2	1917.1	1935.1	1964.2	1977.0	1982.1	1977.9	1966.7	1952.2	1936.8	1933.4
32.5°	1997.5	2000.9	2021.5	2048.8	2060.8	2062.5	2057.4	2052.3	2028.3	2002.7	2000.9
35°	2094.2	2100.1	2124.9	2157.4	2168.6	2169.4	2159.1	2151.4	2123.2	2102.7	2102.7
37.5°	2222.4	2225.0	2248.9	2285.7	2297.7	2294.3	2289.1	2282.3	2252.4	2225.8	2226.7
40°	2372.9	2378.1	2398.6	2441.3	2441.3	2437.1	2440.5	2435.3	2405.4	2379.8	2380.6
42.5°	2551.6	2554.2	2579.0	2624.3	2620.9	2612.4	2615.8	2608.9	2590.1	2561.0	2550.8
45°	2742.3	2752.6	2795.3	2839.0	2832.1	2804.7	2818.4	2816.7	2799.6	2756.0	2758.6
47.5°	2972.4	2989.5	3030.5	3082.7	3075.0	3032.2	3047.6	3057.9	3033.9	2986.0	2977.5
50°	3231.4	3242.6	3303.3	3352.0	3345.2	3299.9	3334.9	3336.6	3276.8	3209.2	3209.2
52.5°	3507.6	3518.8	3600.9	3677.0	3681.2	3615.4	3643.6	3641.9	3544.4	3455.5	3438.4
55°	3817.2	3822.3	3928.4	4040.4	4064.3	4000.2	4003.6	3969.4	3842.8	3739.4	3730.0
57.5°	4137.0	4155.8	4273.0	4418.3	4489.3	4450.0	4432.0	4340.5	4218.2	4099.4	4093.4
60°	4491.0	4491.9	4644.1	4816.0	4959.6	4986.1	4912.6	4790.3	4632.1	4474.8	4467.9
62.5°	4736.4	4773.2	4965.6	5256.3	5513.7	5662.5	5468.4	5211.9	4900.6	4646.6	4621.0
65°	4786.9	4811.7	5105.0	5597.5	6123.4	6444.1	5995.2	5449.6	4918.6	4580.0	4562.8
67.5°	4379.0	4405.5	4800.6	5556.5	6551.0	7208.5	6337.2	5335.0	4614.2	4195.2	4161.8
70°	3387.1	3417.0	3905.3	4891.2	6456.1	7448.8	6093.5	4653.5	3805.2	3352.9	3292.2
72.5°	1800.9	1911.2	2328.5	3357.1	5240.1	6413.3	4996.4	3395.6	2454.2	2006.1	1925.7
75°	657.6	671.3	903.8	1488.7	3048.5	4397.8	3165.6	1619.6	931.2	719.1	682.4
77.5°	271.9	271.1	297.6	449.8	1107.4	2252.4	1235.6	475.4	296.7	274.5	271.1
80°	160.8	160.8	177.0	187.3	291.6	679.8	325.8	212.1	177.9	162.5	165.0
82.5°	71.8	76.1	112.0	118.0	141.1	186.4	157.3	135.1	116.3	80.4	72.7
85°	39.3	34.2	59.0	61.6	67.6	69.3	74.4	73.5	67.6	39.3	40.2
87.5°	7.7	9.4	17.1	12.8	14.5	12.8	17.1	23.9	24.8	13.7	11.1
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)