

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: P453933

Luminaire Tested: **GALN-SA5A-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21829 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

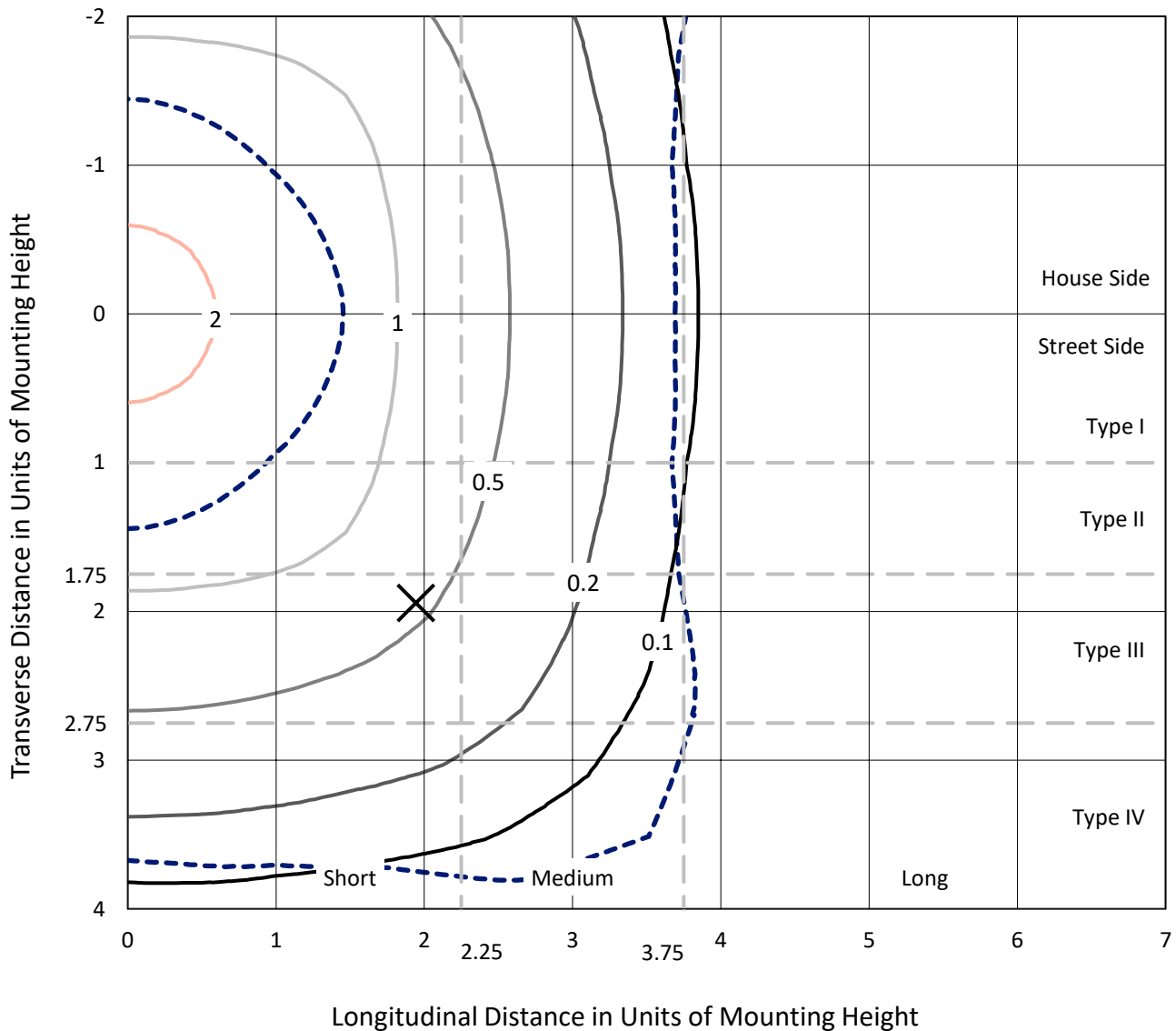
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

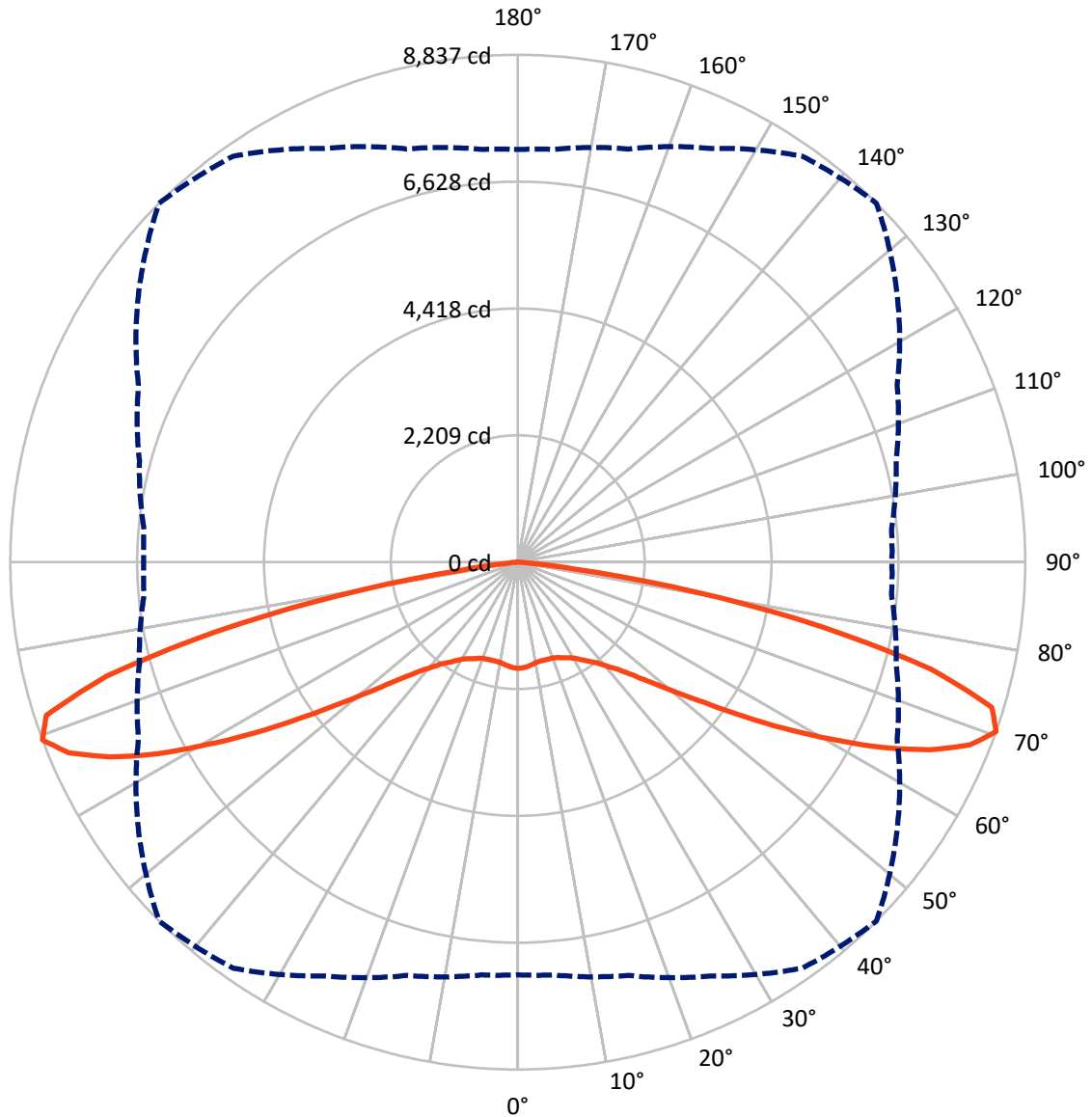
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	10914.5	0.0	10914.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10914.5	0.0	10914.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21829.0	0.0	21829.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.8	0.8
10°-20°	506.0	2.3
20°-30°	862.1	3.9
30°-40°	1336.2	6.1
40°-50°	2249.0	10.3
50°-60°	4091.9	18.7
60°-70°	6927.5	31.7
70°-80°	5362.2	24.6
80°-90°	321.3	1.5
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°	21829.0	100.0
0°-180°	21829.0	100.0



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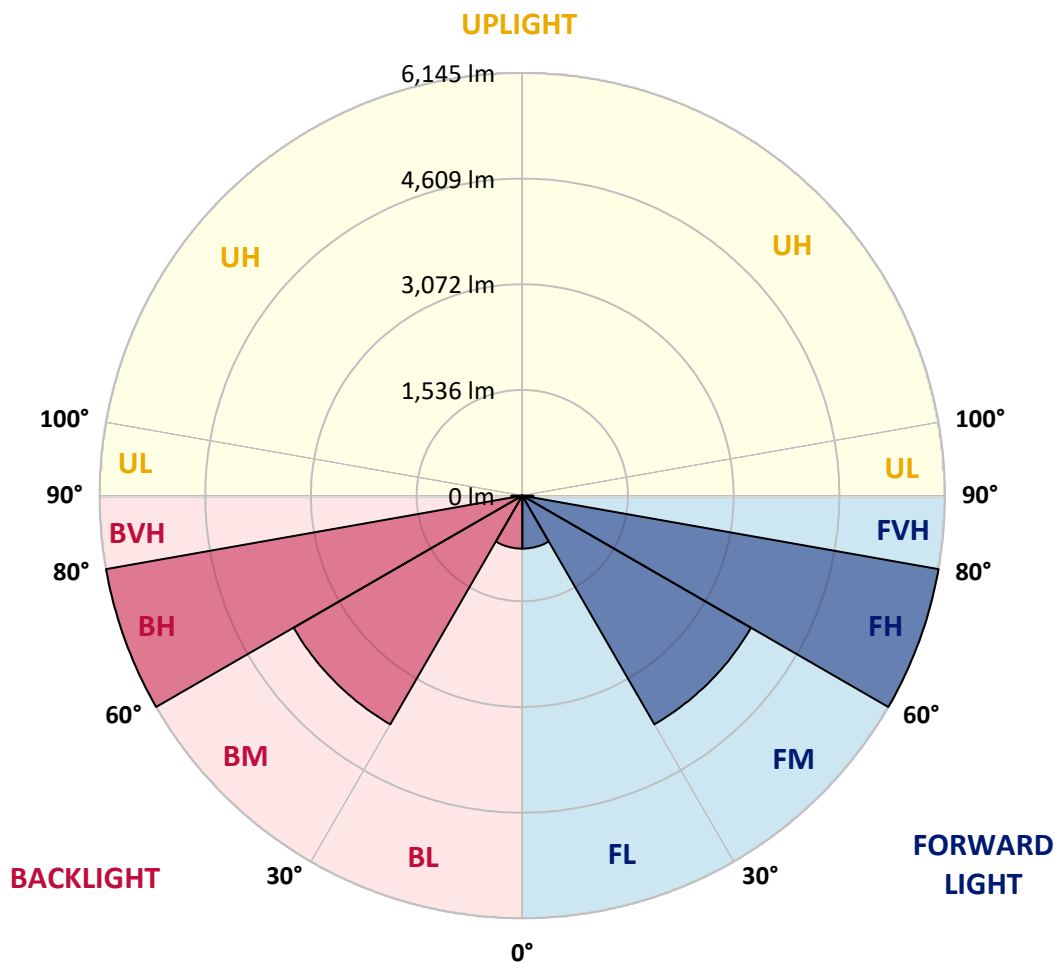
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.4	3.5			
FM (30°-60°)	3838.6	17.6			
FH (60°-80°)	6144.9	28.1			G3/7500
FVH (80°-90°)	160.7	0.7			G2/225
BL (0°-30°)	770.4	3.5	B2/1000		
BM (30°-60°)	3838.6	17.6	B3/5000		
BH (60°-80°)	6144.9	28.1	B5		G3/7500
BVH (80°-90°)	160.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1	1848.1
2.5°	1843.5	1844.6	1844.6	1842.3	1841.2	1841.2	1840.0	1840.0	1843.5	1844.6	1845.8
5°	1827.3	1827.3	1827.3	1826.2	1823.9	1823.9	1821.6	1821.6	1822.7	1826.2	1823.9
7.5°	1805.4	1807.7	1807.7	1803.1	1799.7	1799.7	1798.5	1799.7	1800.8	1804.3	1803.1
10°	1798.5	1799.7	1793.9	1785.8	1780.1	1776.6	1777.8	1780.1	1785.8	1788.1	1789.3
12.5°	1803.1	1803.1	1792.8	1781.2	1770.8	1766.2	1765.1	1773.2	1783.5	1790.4	1792.8
15°	1808.9	1806.6	1793.9	1778.9	1768.5	1767.4	1766.2	1772.0	1787.0	1800.8	1802.0
17.5°	1812.4	1811.2	1795.1	1776.6	1770.8	1770.8	1769.7	1774.3	1790.4	1807.7	1808.9
20°	1823.9	1820.4	1802.0	1782.4	1777.8	1780.1	1776.6	1782.4	1799.7	1820.4	1825.0
22.5°	1846.9	1843.5	1825.0	1805.4	1803.1	1803.1	1802.0	1807.7	1826.2	1848.1	1851.6
25°	1874.6	1871.2	1853.9	1840.0	1842.3	1846.9	1844.6	1845.8	1860.8	1879.2	1885.0
27.5°	1911.5	1905.7	1890.7	1879.2	1886.1	1886.1	1886.1	1885.0	1894.2	1911.5	1917.3
30°	1956.5	1954.2	1938.0	1936.9	1942.6	1936.9	1936.9	1938.0	1939.2	1955.3	1961.1
32.5°	2015.3	2010.7	2002.6	2000.3	2016.4	2021.0	2004.9	1989.9	1998.0	2014.1	2017.6
35°	2112.1	2105.2	2093.7	2081.0	2093.7	2115.6	2081.0	2069.4	2090.2	2112.1	2114.4
37.5°	2243.5	2240.1	2221.6	2198.6	2197.4	2220.5	2184.7	2183.6	2222.8	2249.3	2252.8
40°	2408.4	2411.9	2388.8	2366.9	2355.4	2373.8	2346.1	2356.5	2394.6	2424.5	2422.2
42.5°	2640.1	2627.4	2591.7	2571.0	2558.3	2551.4	2544.4	2560.6	2603.2	2635.5	2660.9
45°	2911.1	2906.5	2861.5	2836.1	2808.5	2798.1	2795.8	2824.6	2876.5	2915.7	2919.1
47.5°	3217.7	3207.4	3178.5	3152.0	3141.6	3129.0	3117.4	3139.3	3191.2	3218.9	3227.0
50°	3533.6	3535.9	3535.9	3531.3	3541.7	3544.0	3512.9	3520.9	3549.8	3547.5	3545.2
52.5°	3894.5	3907.2	3967.1	3972.9	4022.5	4055.9	3999.4	3966.0	3955.6	3893.3	3897.9
55°	4318.7	4330.3	4420.2	4510.1	4643.9	4700.4	4581.6	4477.8	4404.1	4309.5	4314.1
57.5°	4847.9	4853.7	4939.0	5111.9	5324.1	5456.7	5248.0	5042.8	4892.9	4803.0	4767.2
60°	5417.5	5423.2	5547.7	5758.7	6088.4	6249.8	5991.6	5656.1	5467.0	5329.8	5339.1
62.5°	6101.1	6124.2	6236.0	6526.5	6926.6	7107.6	6765.2	6316.7	6060.8	5890.1	5897.1
65°	6833.2	6872.4	6994.6	7314.0	7682.9	7877.7	7458.1	6940.4	6622.2	6413.6	6435.5
67.5°	7308.2	7342.8	7519.2	7872.0	8332.0	8493.4	7951.5	7348.6	6950.8	6701.8	6655.7
70°	7187.2	7216.0	7451.2	7951.5	8632.9	8836.9	8069.1	7288.6	6820.5	6533.5	6515.0
72.5°	6344.4	6284.4	6628.0	7346.3	8289.3	8631.7	7699.0	6656.8	6067.7	5772.5	5738.0
75°	4204.6	4334.9	4842.2	5688.4	7013.1	7437.3	6571.5	5344.8	4603.5	4357.9	4319.9
77.5°	1405.4	1505.7	1956.5	3224.6	4781.1	5418.6	4788.0	3495.6	2473.0	1992.2	2001.4
80°	372.4	367.8	476.1	886.6	2066.0	3138.2	2404.9	1184.0	647.9	469.2	445.0
82.5°	133.7	149.9	192.5	245.6	547.6	975.3	688.3	332.0	243.3	179.9	174.1
85°	58.8	57.6	83.0	98.0	137.2	182.2	161.4	140.7	123.4	81.9	76.1
87.5°	12.7	12.7	19.6	15.0	24.2	24.2	30.0	35.7	36.9	24.2	19.6
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)