

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: P452773

Luminaire Tested: **GALN-SA3D-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452773  
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-SA3D-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22012 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

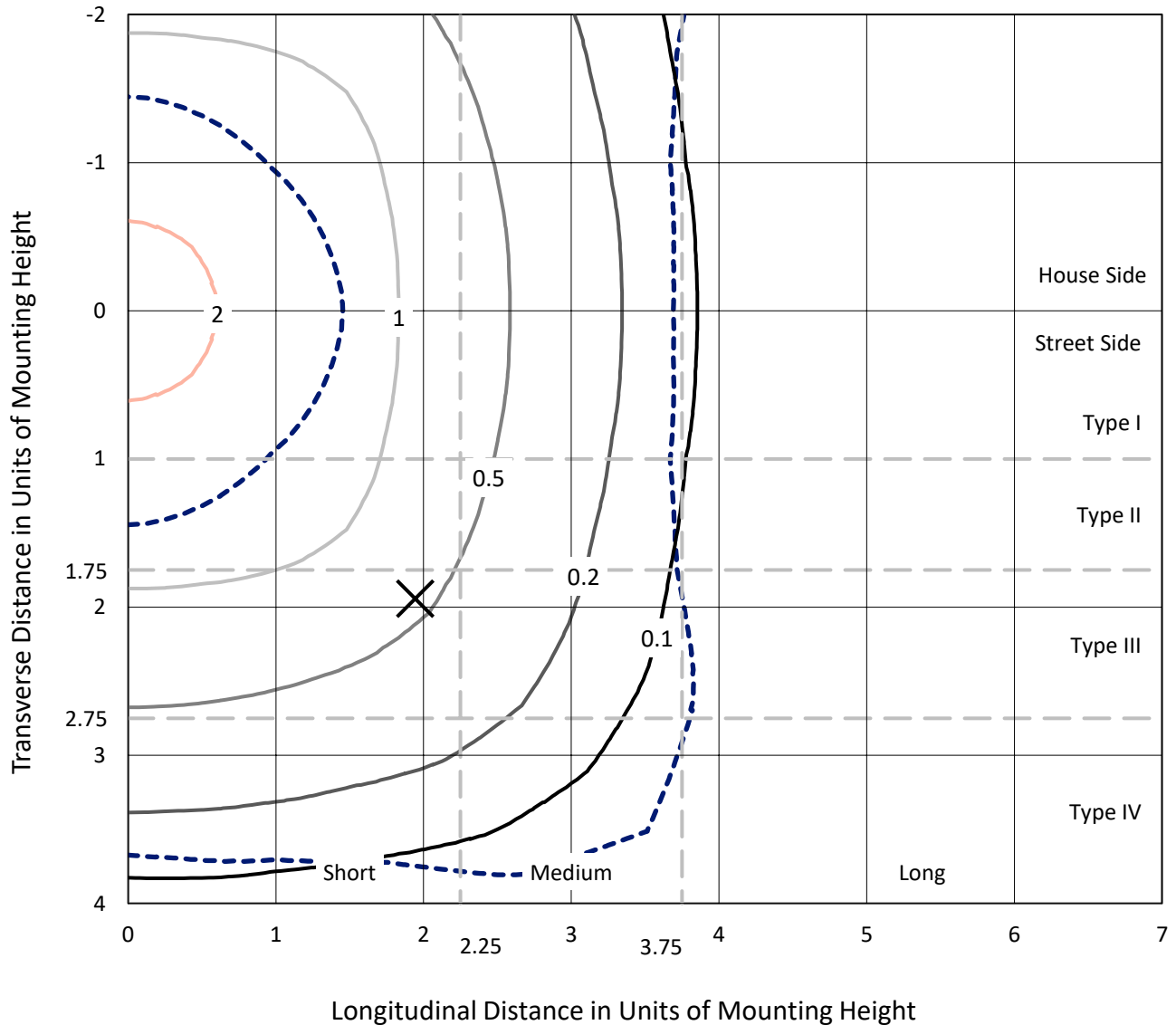
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

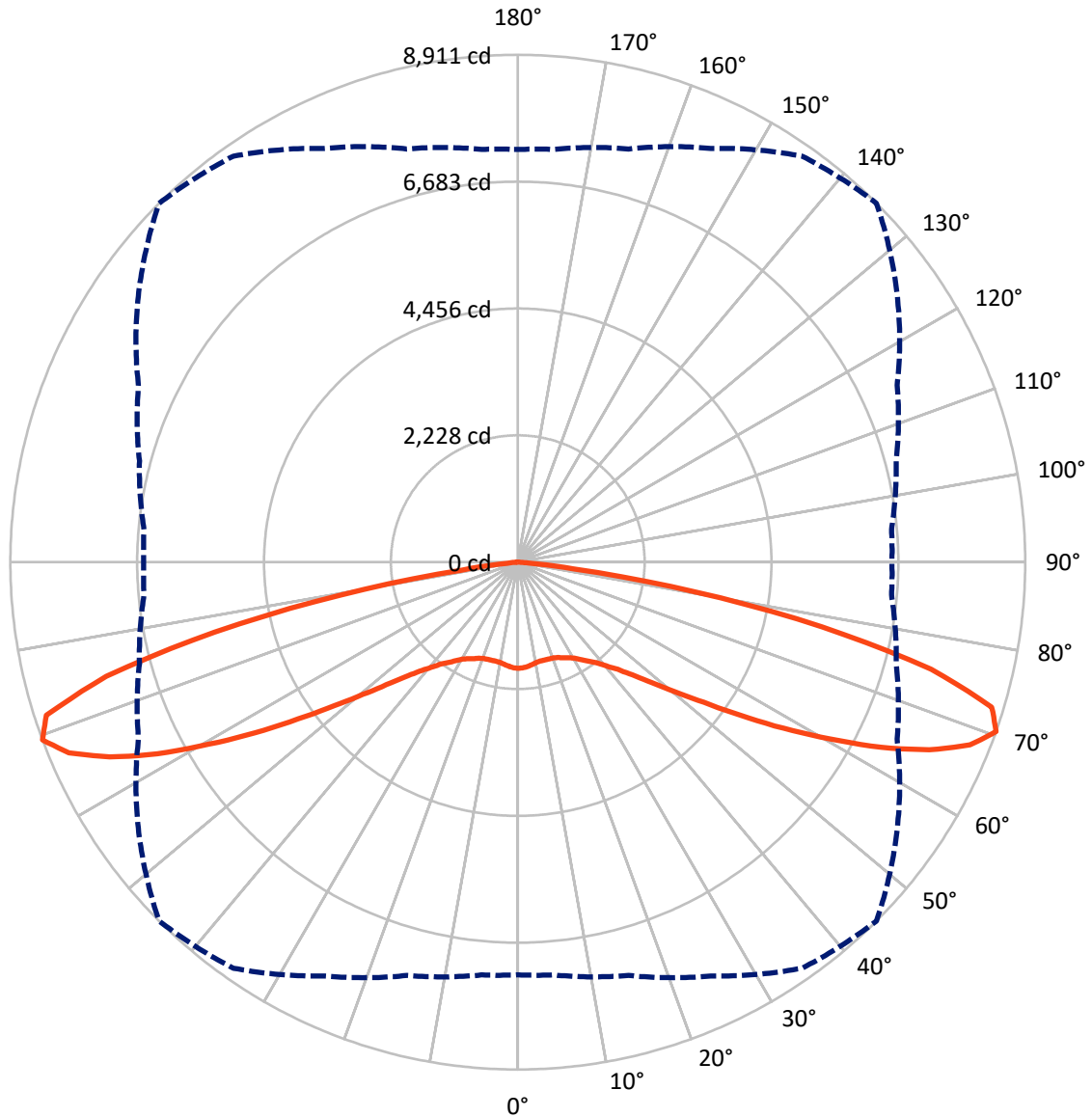
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA3D-730-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA3D-730-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11006.0	0.0	11006.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11006.0	0.0	11006.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22012.0	0.0	22012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.3	0.8
10°-20°	510.2	2.3
20°-30°	869.3	3.9
30°-40°	1347.4	6.1
40°-50°	2267.8	10.3
50°-60°	4126.2	18.7
60°-70°	6985.6	31.7
70°-80°	5407.1	24.6
80°-90°	324.0	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°	22012.0	100.0
0°-180°	22012.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452773

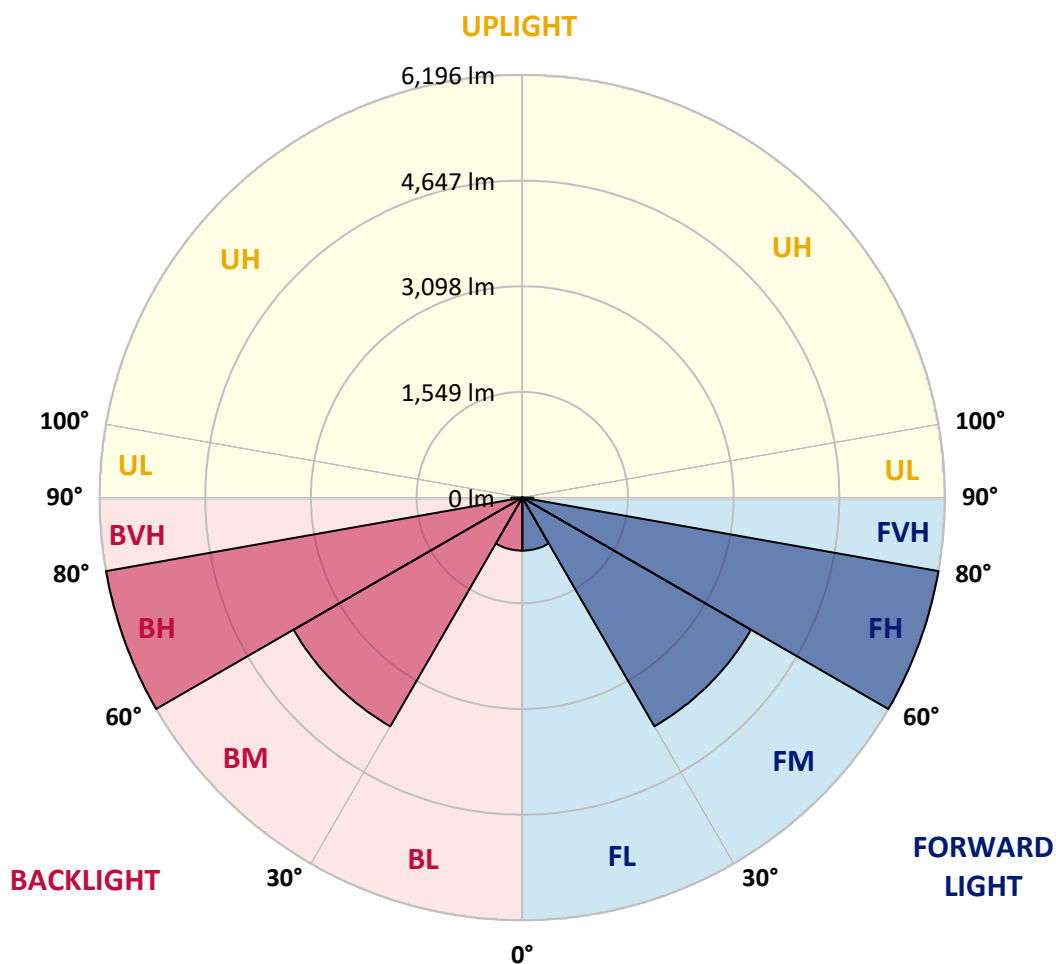
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.9	3.5			
FM (30°-60°)	3870.7	17.6			
FH (60°-80°)	6196.4	28.2			G3/7500
FVH (80°-90°)	162.0	0.7			G2/225
BL (0°-30°)	776.9	3.5	B2/1000		
BM (30°-60°)	3870.7	17.6	B3/5000		
BH (60°-80°)	6196.4	28.2	B5		G3/7500
BVH (80°-90°)	162.0	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°	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6
2.5°	1858.9	1860.1	1860.1	1857.8	1856.6	1856.6	1855.4	1855.4	1858.9	1860.1	1861.3
5°	1842.7	1842.7	1842.7	1841.5	1839.2	1839.2	1836.8	1836.8	1838.0	1841.5	1839.2
7.5°	1820.6	1822.9	1822.9	1818.2	1814.8	1814.8	1813.6	1814.8	1815.9	1819.4	1818.2
10°	1813.6	1814.8	1808.9	1800.8	1795.0	1791.5	1792.7	1795.0	1800.8	1803.1	1804.3
12.5°	1818.2	1818.2	1807.8	1796.2	1785.7	1781.0	1779.9	1788.0	1798.5	1805.5	1807.8
15°	1824.1	1821.7	1808.9	1793.8	1783.4	1782.2	1781.0	1786.9	1802.0	1815.9	1817.1
17.5°	1827.5	1826.4	1810.1	1791.5	1785.7	1785.7	1784.5	1789.2	1805.5	1822.9	1824.1
20°	1839.2	1835.7	1817.1	1797.3	1792.7	1795.0	1791.5	1797.3	1814.8	1835.7	1840.3
22.5°	1862.4	1858.9	1840.3	1820.6	1818.2	1818.2	1817.1	1822.9	1841.5	1863.6	1867.1
25°	1890.3	1886.8	1869.4	1855.4	1857.8	1862.4	1860.1	1861.3	1876.4	1895.0	1900.8
27.5°	1927.5	1921.7	1906.6	1895.0	1901.9	1901.9	1901.9	1900.8	1910.1	1927.5	1933.3
30°	1972.9	1970.5	1954.3	1953.1	1958.9	1953.1	1953.1	1954.3	1955.4	1971.7	1977.5
32.5°	2032.2	2027.5	2019.4	2017.0	2033.3	2038.0	2021.7	2006.6	2014.7	2031.0	2034.5
35°	2129.8	2122.8	2111.2	2098.4	2111.2	2133.3	2098.4	2086.8	2107.7	2129.8	2132.1
37.5°	2262.3	2258.9	2240.3	2217.0	2215.8	2239.1	2203.1	2201.9	2241.4	2268.2	2271.6
40°	2428.6	2432.1	2408.8	2386.7	2375.1	2393.7	2365.8	2376.3	2414.6	2444.9	2442.5
42.5°	2662.3	2649.5	2613.4	2592.5	2579.7	2572.7	2565.8	2582.0	2625.1	2657.6	2683.2
45°	2935.5	2930.8	2885.5	2859.9	2832.0	2821.5	2819.2	2848.3	2900.6	2940.1	2943.6
47.5°	3244.7	3234.2	3205.2	3178.4	3168.0	3155.2	3143.6	3165.7	3218.0	3245.9	3254.0
50°	3563.2	3565.6	3565.6	3560.9	3571.4	3573.7	3542.3	3550.5	3579.5	3577.2	3574.9
52.5°	3927.1	3939.9	4000.4	4006.2	4056.2	4089.9	4032.9	3999.2	3988.7	3926.0	3930.6
55°	4355.0	4366.6	4457.3	4547.9	4682.8	4739.8	4620.0	4515.4	4441.0	4345.7	4350.3
57.5°	4888.6	4894.4	4980.4	5154.8	5368.7	5502.4	5292.0	5085.0	4933.9	4843.2	4807.2
60°	5462.9	5468.7	5594.2	5807.0	6139.5	6302.2	6041.8	5703.5	5512.9	5374.5	5383.8
62.5°	6152.3	6175.5	6288.3	6581.3	6984.7	7167.2	6821.9	6369.7	6111.6	5939.5	5946.5
65°	6890.5	6930.0	7053.3	7375.3	7747.3	7943.8	7520.6	6998.6	6677.8	6467.3	6489.4
67.5°	7369.5	7404.4	7582.2	7938.0	8401.8	8564.6	8018.2	7410.2	7009.1	6758.0	6711.5
70°	7247.4	7276.5	7513.6	8018.2	8705.3	8911.0	8136.8	7349.7	6877.7	6588.2	6569.6
72.5°	6397.6	6337.1	6683.6	7407.8	8358.8	8704.1	7763.6	6712.6	6118.6	5820.9	5786.1
75°	4239.9	4371.2	4882.8	5736.1	7071.9	7499.7	6626.6	5389.6	4642.1	4394.5	4356.1
77.5°	1417.2	1518.3	1972.9	3251.7	4821.1	5464.0	4828.1	3524.9	2493.7	2008.9	2018.2
80°	375.5	370.9	480.1	894.0	2083.3	3164.5	2425.1	1194.0	653.4	473.2	448.7
82.5°	134.9	151.1	194.1	247.6	552.2	983.5	694.0	334.8	245.3	181.4	175.5
85°	59.3	58.1	83.7	98.8	138.3	183.7	162.8	141.8	124.4	82.5	76.7
87.5°	12.8	12.8	19.8	15.1	24.4	24.4	30.2	36.0	37.2	24.4	19.8
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)