

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: P453237

Luminaire Tested: **GALN-SA4B-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453237  
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-SA4B-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21456 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

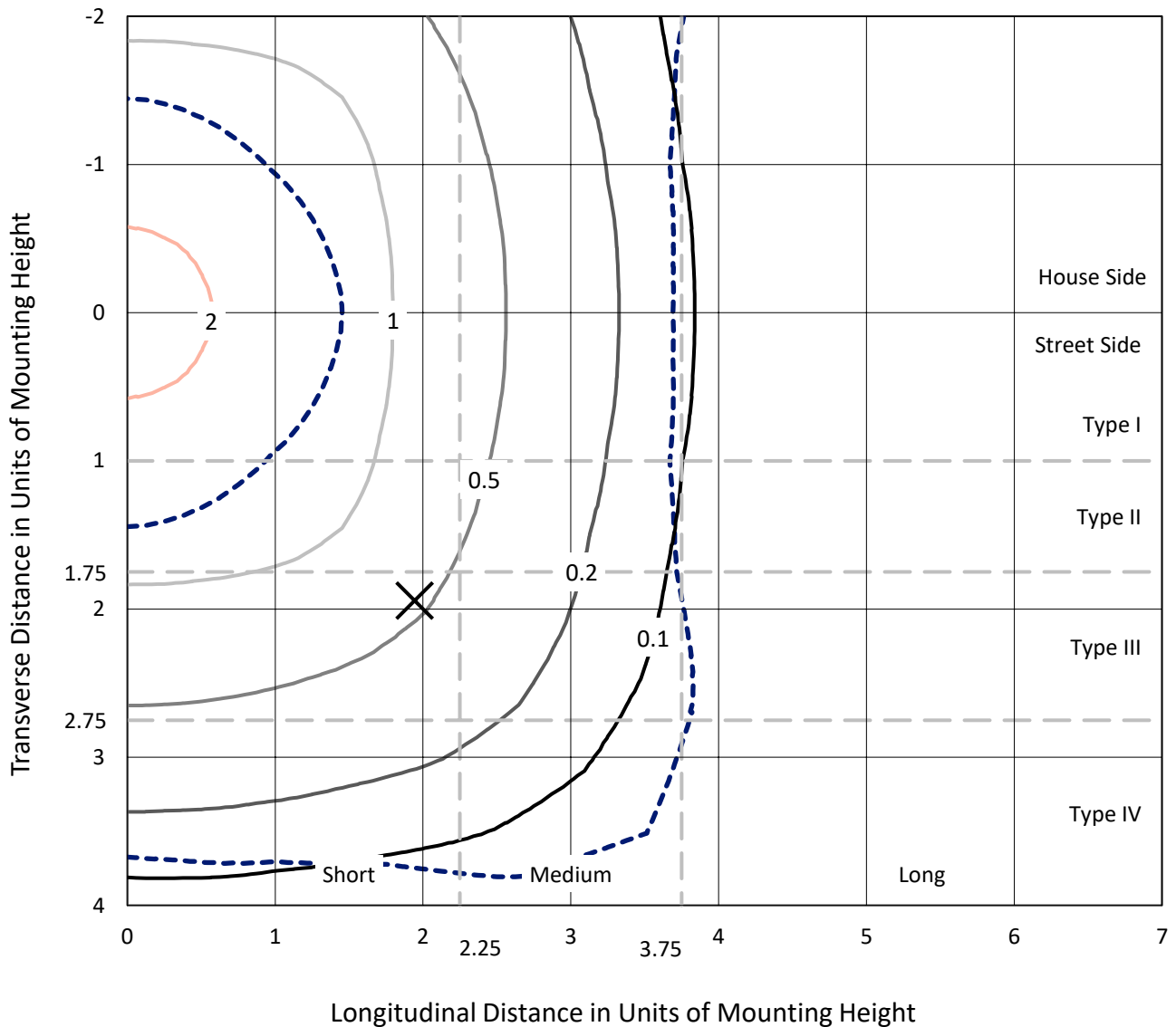
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

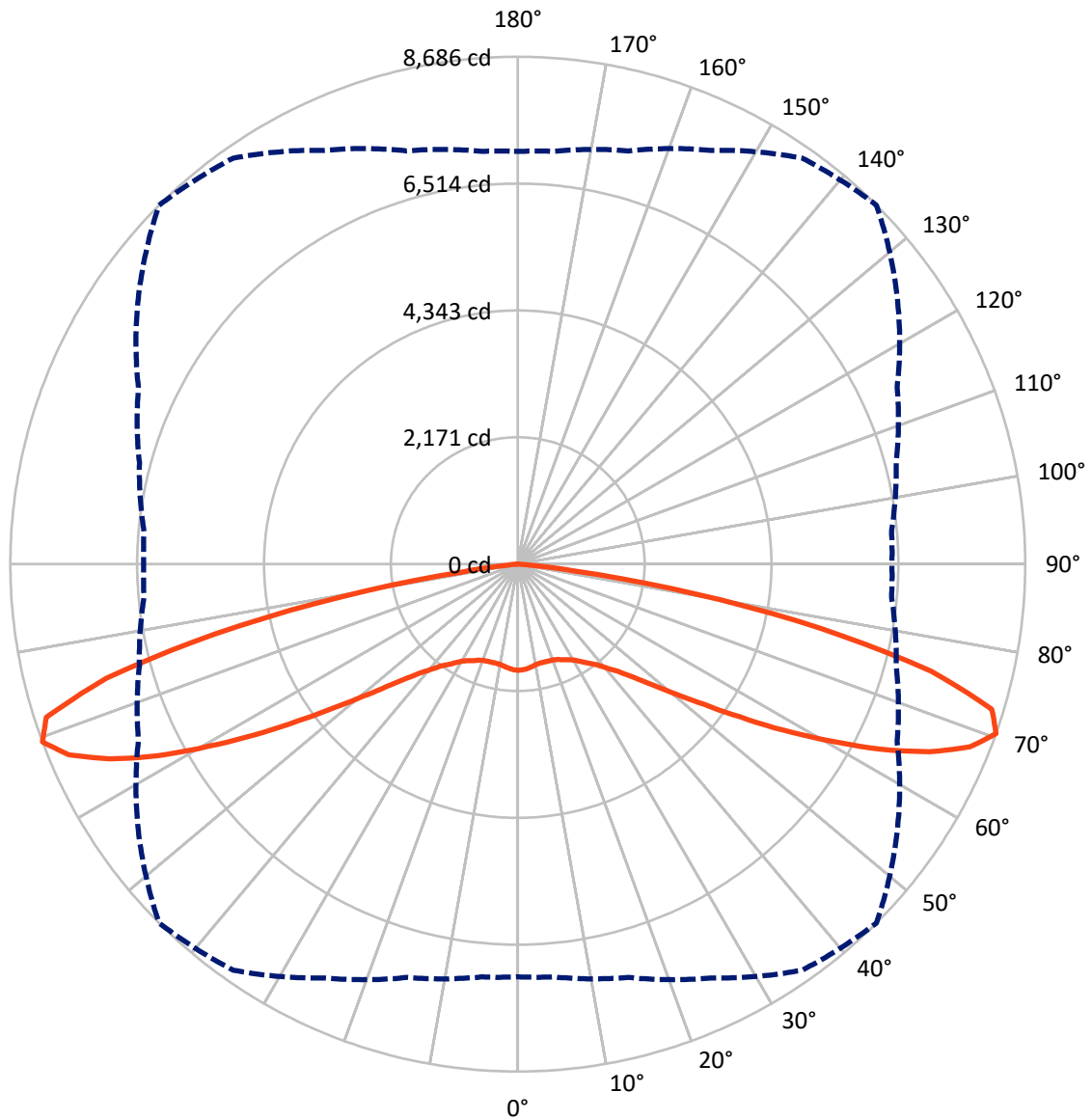
× Max cd  
 - - - 1/2 Max cd



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	10728.0	0.0	10728.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10728.0	0.0	10728.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21456.0	0.0	21456.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	0.8
10°-20°	497.3	2.3
20°-30°	847.3	3.9
30°-40°	1313.4	6.1
40°-50°	2210.6	10.3
50°-60°	4022.0	18.7
60°-70°	6809.2	31.7
70°-80°	5270.6	24.6
80°-90°	315.8	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°	21456.0	100.0
0°-180°	21456.0	100.0



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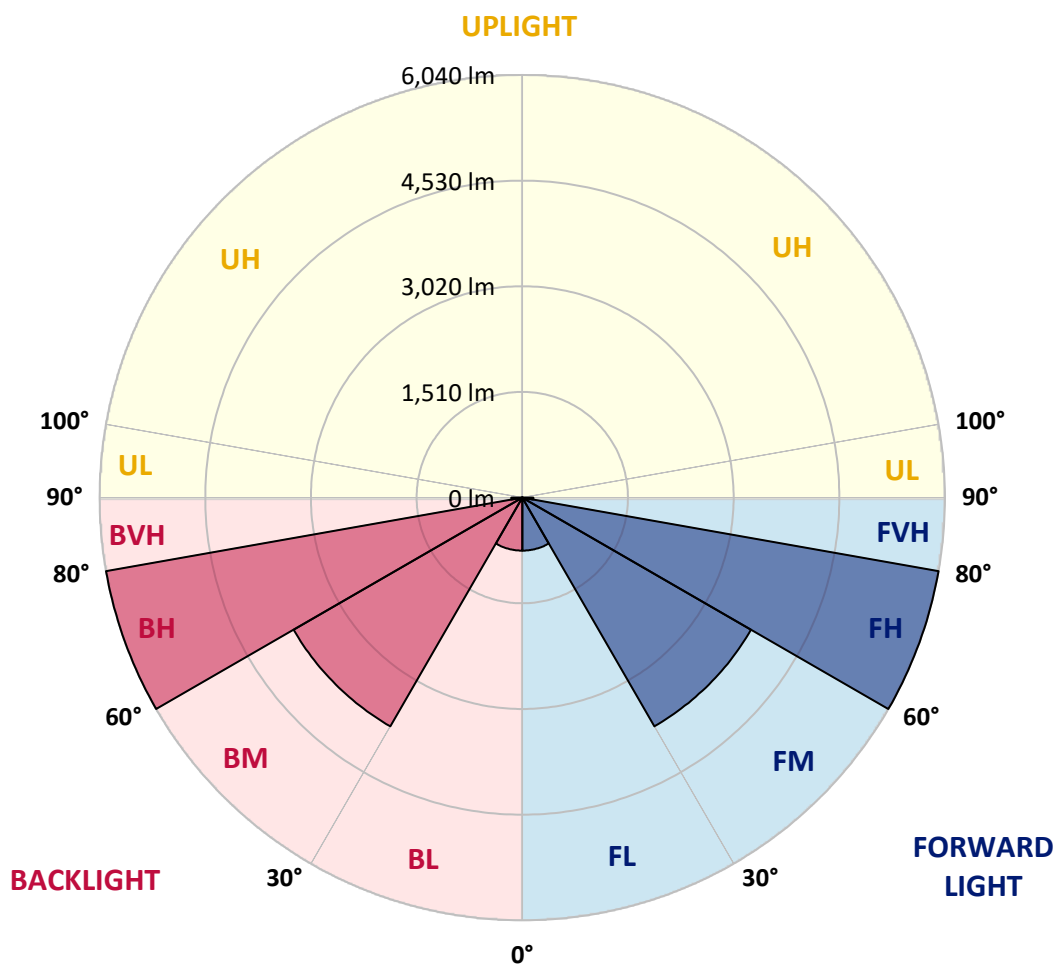
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.3	3.5			
FM (30°-60°)	3773.0	17.6			
FH (60°-80°)	6039.9	28.1			G3/7500
FVH (80°-90°)	157.9	0.7			G2/225
BL (0°-30°)	757.3	3.5	B2/1000		
BM (30°-60°)	3773.0	17.6	B3/5000		
BH (60°-80°)	6039.9	28.1	B5		G3/7500
BVH (80°-90°)	157.9	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°	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5	1816.5
2.5°	1812.0	1813.1	1813.1	1810.8	1809.7	1809.7	1808.6	1808.6	1812.0	1813.1	1814.2
5°	1796.1	1796.1	1796.1	1795.0	1792.7	1792.7	1790.4	1790.4	1791.6	1795.0	1792.7
7.5°	1774.6	1776.9	1776.9	1772.3	1768.9	1768.9	1767.8	1768.9	1770.1	1773.5	1772.3
10°	1767.8	1768.9	1763.3	1755.3	1749.7	1746.3	1747.4	1749.7	1755.3	1757.6	1758.7
12.5°	1772.3	1772.3	1762.1	1750.8	1740.6	1736.1	1734.9	1742.9	1753.1	1759.9	1762.1
15°	1778.0	1775.7	1763.3	1748.5	1738.3	1737.2	1736.1	1741.7	1756.5	1770.1	1771.2
17.5°	1781.4	1780.3	1764.4	1746.3	1740.6	1740.6	1739.5	1744.0	1759.9	1776.9	1778.0
20°	1792.7	1789.3	1771.2	1751.9	1747.4	1749.7	1746.3	1751.9	1768.9	1789.3	1793.8
22.5°	1815.4	1812.0	1793.8	1774.6	1772.3	1772.3	1771.2	1776.9	1795.0	1816.5	1819.9
25°	1842.6	1839.2	1822.2	1808.6	1810.8	1815.4	1813.1	1814.2	1829.0	1847.1	1852.8
27.5°	1878.8	1873.2	1858.4	1847.1	1853.9	1853.9	1853.9	1852.8	1861.8	1878.8	1884.5
30°	1923.0	1920.8	1904.9	1903.8	1909.4	1903.8	1903.8	1904.9	1906.0	1921.9	1927.6
32.5°	1980.8	1976.3	1968.4	1966.1	1982.0	1986.5	1970.6	1955.9	1963.8	1979.7	1983.1
35°	2076.0	2069.2	2057.9	2045.4	2057.9	2079.4	2045.4	2034.1	2054.5	2076.0	2078.3
37.5°	2205.2	2201.8	2183.7	2161.0	2159.9	2182.5	2147.4	2146.3	2184.8	2210.9	2214.3
40°	2367.2	2370.6	2348.0	2326.5	2315.1	2333.3	2306.1	2316.3	2353.6	2383.1	2380.8
42.5°	2595.0	2582.6	2547.4	2527.0	2514.6	2507.8	2501.0	2516.8	2558.8	2590.5	2615.4
45°	2861.3	2856.8	2812.6	2787.7	2760.5	2750.3	2748.0	2776.3	2827.3	2865.9	2869.3
47.5°	3162.7	3152.6	3124.2	3098.2	3088.0	3075.5	3064.2	3085.7	3136.7	3163.9	3171.8
50°	3473.2	3475.5	3475.5	3471.0	3481.2	3483.4	3452.8	3460.8	3489.1	3486.8	3484.6
52.5°	3827.9	3840.4	3899.3	3905.0	3953.7	3986.6	3931.1	3898.2	3888.0	3826.8	3831.3
55°	4245.0	4256.3	4344.7	4433.1	4564.5	4620.0	4503.3	4401.3	4328.8	4235.9	4240.4
57.5°	4765.1	4770.8	4854.6	5024.6	5233.1	5363.4	5158.3	4956.6	4809.3	4720.9	4685.8
60°	5324.9	5330.6	5452.9	5660.3	5984.4	6143.1	5889.2	5559.5	5373.6	5238.8	5247.8
62.5°	5996.9	6019.5	6129.5	6415.0	6808.2	6986.2	6649.6	6208.8	5957.2	5789.5	5796.3
65°	6716.5	6755.0	6875.1	7189.0	7551.6	7743.1	7330.6	6821.8	6509.1	6304.0	6325.5
67.5°	7183.3	7217.3	7390.7	7737.5	8189.6	8348.3	7815.7	7223.0	6832.0	6587.3	6541.9
70°	7064.3	7092.7	7323.8	7815.7	8485.4	8685.9	7931.2	7164.1	6704.0	6421.8	6403.7
72.5°	6236.0	6177.1	6514.7	7220.7	8147.7	8484.2	7567.5	6543.1	5964.0	5673.9	5639.9
75°	4132.8	4260.8	4759.4	5591.2	6893.2	7310.2	6459.2	5253.5	4524.9	4283.5	4246.1
77.5°	1381.4	1480.0	1923.0	3169.5	4699.4	5326.0	4706.2	3435.9	2430.7	1958.2	1967.2
80°	366.0	361.5	468.0	871.4	2030.7	3084.6	2363.8	1163.8	636.9	461.2	437.4
82.5°	131.5	147.3	189.2	241.4	538.3	958.7	676.5	326.4	239.1	176.8	171.1
85°	57.8	56.7	81.6	96.3	134.9	179.0	158.6	138.2	121.3	80.5	74.8
87.5°	12.5	12.5	19.3	14.7	23.8	23.8	29.5	35.1	36.3	23.8	19.3
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)