

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: P527390

Luminaire Tested: **GALN-SA2B-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-830-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8026 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

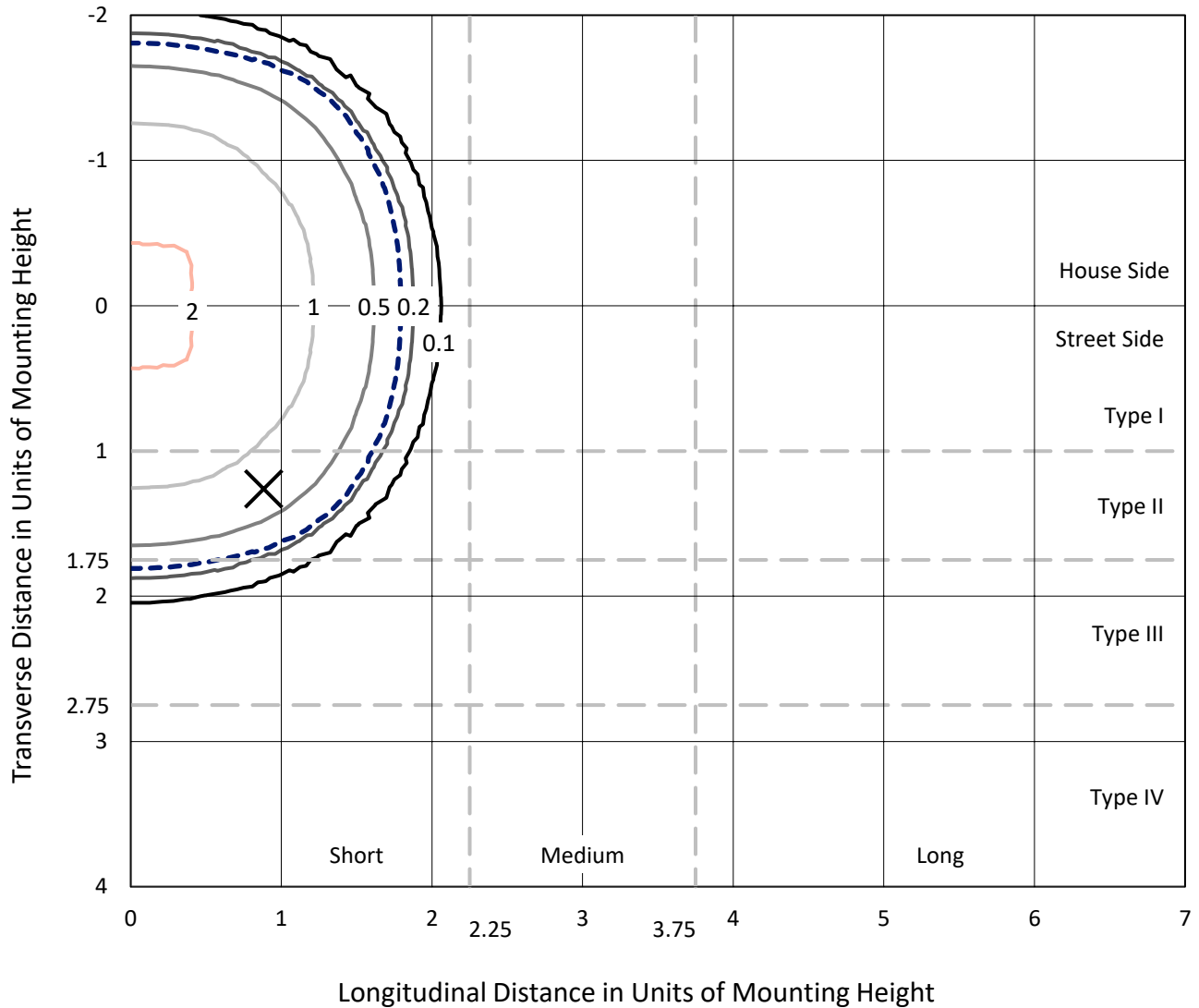
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

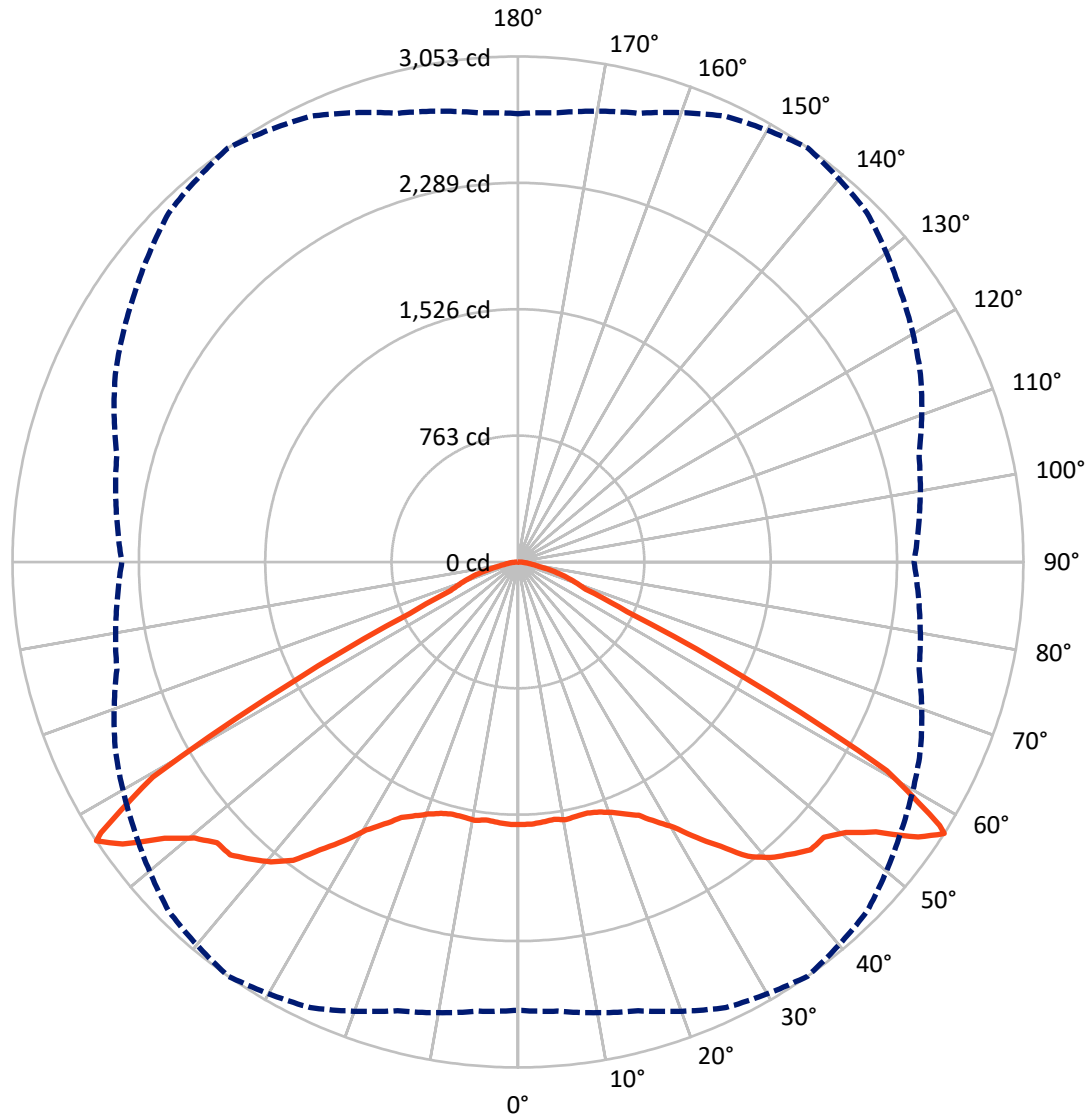
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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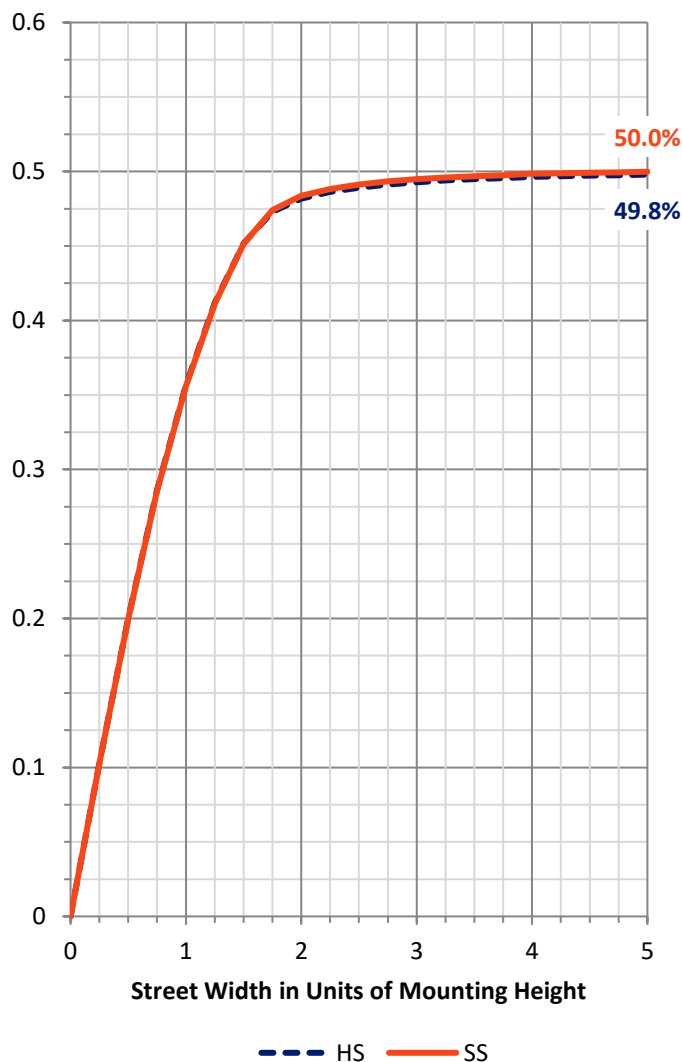
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4013.0	0.0	4013.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4013.0	0.0	4013.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8026.0	0.0	8026.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.3	1.9
10°-20°	445.1	5.5
20°-30°	777.3	9.7
30°-40°	1273.6	15.9
40°-50°	1867.4	23.3
50°-60°	2352.2	29.3
60°-70°	884.6	11.0
70°-80°	235.2	2.9
80°-90°	40.3	0.5
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°	8026.0	100.0
0°-180°	8026.0	100.0

**Coefficient of Utilization**



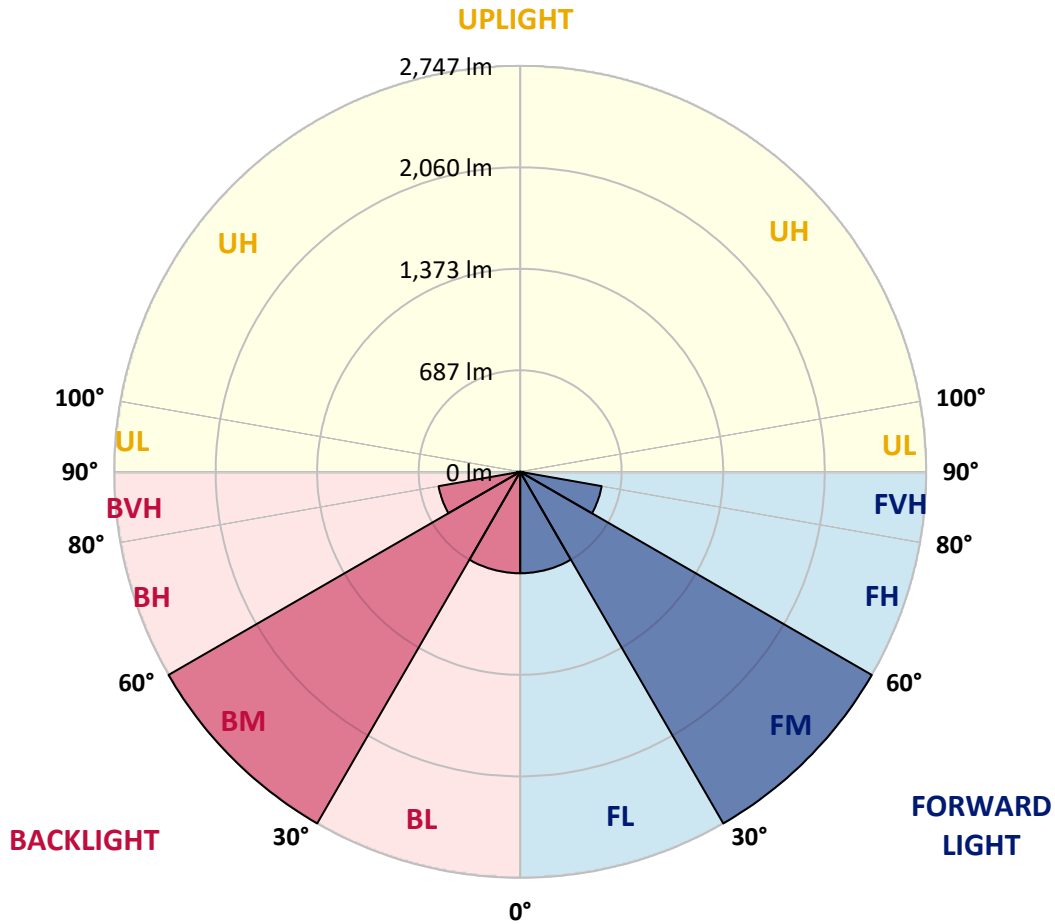
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.3	8.6			
FM (30°-60°)	2746.6	34.2			
FH (60°-80°)	559.9	7.0			G0/660
FVH (80°-90°)	20.2	0.3			G1/100
BL (0°-30°)	686.3	8.6	B2/1000		
BM (30°-60°)	2746.6	34.2	B3/5000		
BH (60°-80°)	559.9	7.0	B2/1000		G0/660
BVH (80°-90°)	20.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1585.1	1585.1	1585.1	1585.1	1585.1	1585.1	1585.1	1585.1	1585.1	1585.1	1585.1
2.5°	1577.2	1593.0	1586.1	1582.1	1585.1	1580.1	1572.2	1581.1	1579.1	1571.2	1568.3
5°	1573.2	1585.1	1577.2	1585.1	1577.2	1591.0	1587.1	1572.2	1590.0	1573.2	1579.1
7.5°	1570.2	1574.2	1576.2	1572.2	1569.3	1586.1	1577.2	1570.2	1560.4	1557.4	1562.3
10°	1563.3	1573.2	1558.4	1578.2	1582.1	1570.2	1570.2	1557.4	1549.5	1544.5	1561.3
12.5°	1581.1	1564.3	1562.3	1572.2	1575.2	1580.1	1566.3	1559.4	1544.5	1546.5	1543.5
15°	1560.4	1567.3	1568.3	1570.2	1573.2	1585.1	1572.2	1557.4	1551.5	1530.7	1532.7
17.5°	1568.3	1561.3	1568.3	1591.0	1587.1	1596.0	1582.1	1559.4	1545.5	1533.7	1549.5
20°	1582.1	1579.1	1582.1	1609.8	1614.7	1622.7	1610.8	1590.0	1563.3	1549.5	1557.4
22.5°	1596.9	1595.0	1596.9	1623.6	1652.3	1662.2	1650.3	1601.9	1588.0	1562.3	1553.4
25°	1623.6	1625.6	1646.4	1676.0	1694.8	1713.6	1691.9	1657.3	1612.8	1596.9	1578.2
27.5°	1683.0	1687.9	1699.8	1743.3	1775.9	1792.7	1762.1	1714.6	1686.9	1654.3	1649.3
30°	1756.1	1756.1	1776.9	1814.5	1859.0	1884.7	1847.1	1790.8	1757.1	1739.3	1728.5
32.5°	1853.0	1842.2	1850.1	1916.3	1985.5	2007.3	1956.9	1887.7	1834.3	1810.5	1802.6
35°	1936.1	1943.0	1960.8	2032.0	2109.1	2159.6	2080.5	1990.5	1936.1	1914.4	1910.4
37.5°	2043.9	2055.8	2064.7	2162.5	2255.5	2274.3	2198.1	2126.0	2059.7	2041.9	2032.0
40°	2196.2	2188.3	2191.2	2263.4	2347.5	2359.3	2284.2	2232.8	2178.4	2167.5	2167.5
42.5°	2321.7	2312.8	2322.7	2349.4	2413.7	2404.8	2363.3	2325.7	2303.0	2291.1	2303.0
45°	2397.9	2395.9	2413.7	2433.5	2479.0	2449.3	2416.7	2422.6	2400.9	2381.1	2380.1
47.5°	2480.9	2468.1	2489.8	2519.5	2484.9	2471.1	2469.1	2481.9	2475.0	2440.4	2429.5
50°	2521.5	2516.5	2551.2	2585.8	2567.0	2535.3	2542.3	2563.0	2474.0	2427.5	2400.9
52.5°	2630.3	2631.2	2697.5	2716.3	2708.4	2661.9	2676.7	2620.4	2515.6	2450.3	2453.3
55°	2801.3	2794.4	2868.6	2923.9	2932.8	2873.5	2802.3	2723.2	2591.7	2525.4	2505.7
57°	2707.4	2723.2	2805.3	2969.4	3052.5	2982.3	2827.0	2682.7	2507.6	2427.5	2392.0
57.5°	2581.8	2607.5	2749.9	2915.0	3002.1	2996.1	2796.4	2607.5	2451.3	2326.7	2329.7
60°	1891.6	1896.6	2025.1	2287.1	2559.1	2565.0	2321.7	2071.6	1897.5	1762.1	1780.9
62.5°	997.7	1020.5	1071.9	1282.5	1517.8	1575.2	1427.9	1299.3	1149.0	1046.2	1056.1
65°	528.0	525.1	549.8	609.1	724.8	754.5	734.7	632.8	580.4	563.6	564.6
67.5°	429.1	434.1	431.1	434.1	442.0	454.9	451.9	455.8	458.8	463.8	462.8
70°	363.9	363.9	365.9	366.9	366.9	372.8	379.7	392.6	393.5	398.5	400.5
72.5°	286.8	284.8	287.7	294.7	295.7	300.6	310.5	318.4	321.4	321.4	315.4
75°	194.8	196.8	200.7	206.7	212.6	221.5	229.4	234.3	236.3	233.4	230.4
77.5°	109.8	111.7	114.7	123.6	130.5	138.4	147.3	152.3	157.2	158.2	152.3
80°	65.3	65.3	70.2	77.1	85.0	92.9	100.9	106.8	108.8	108.8	105.8
82.5°	39.6	40.5	44.5	51.4	58.3	63.3	70.2	75.2	79.1	78.1	76.1
85°	20.8	20.8	24.7	30.7	35.6	40.5	40.5	37.6	35.6	30.7	28.7
87.5°	6.9	5.9	7.9	7.9	6.9	7.9	7.9	8.9	8.9	8.9	8.9
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)