

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: P652209

Luminaire Tested: **GALN-SA2B-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5019.9 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

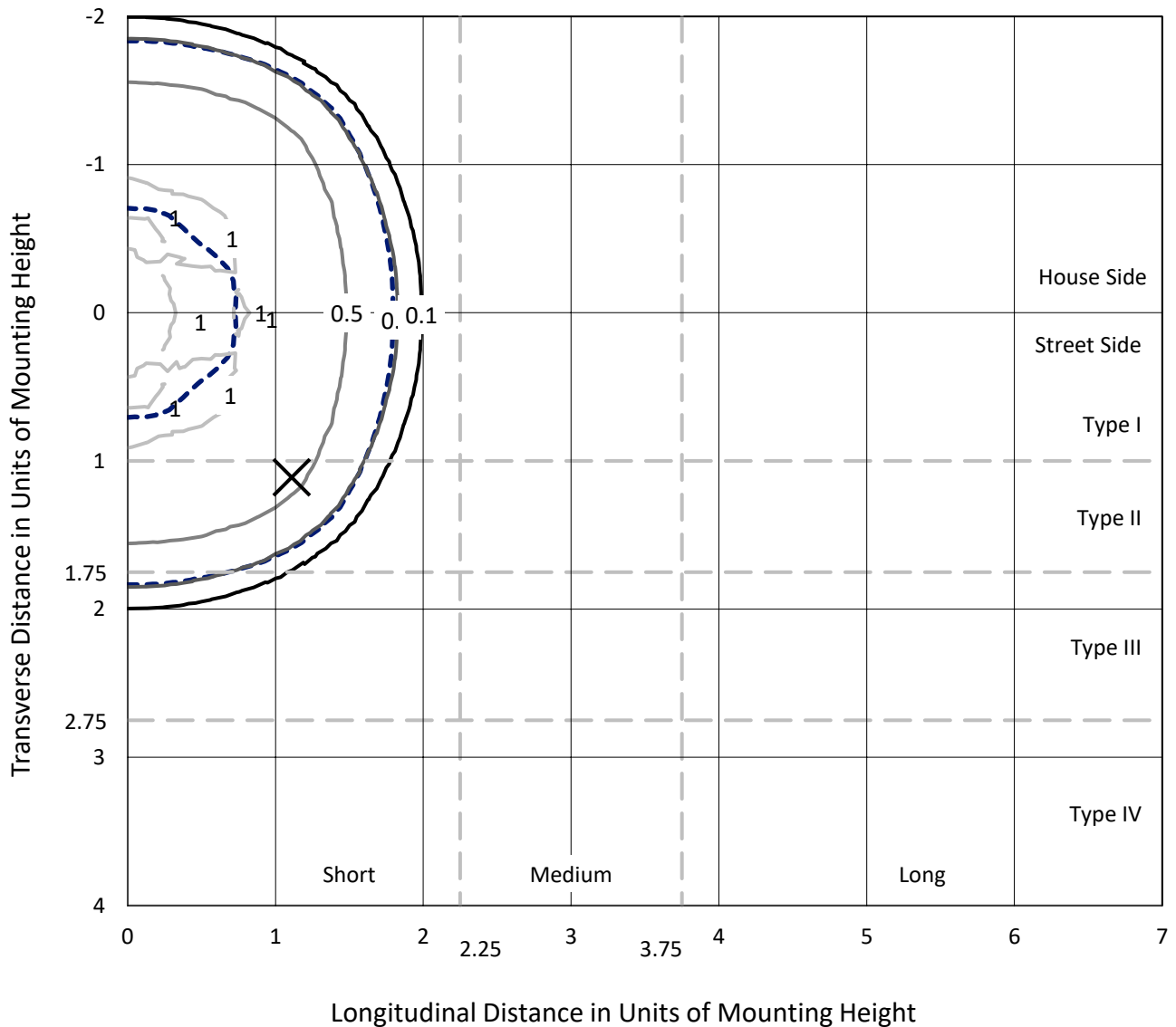
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

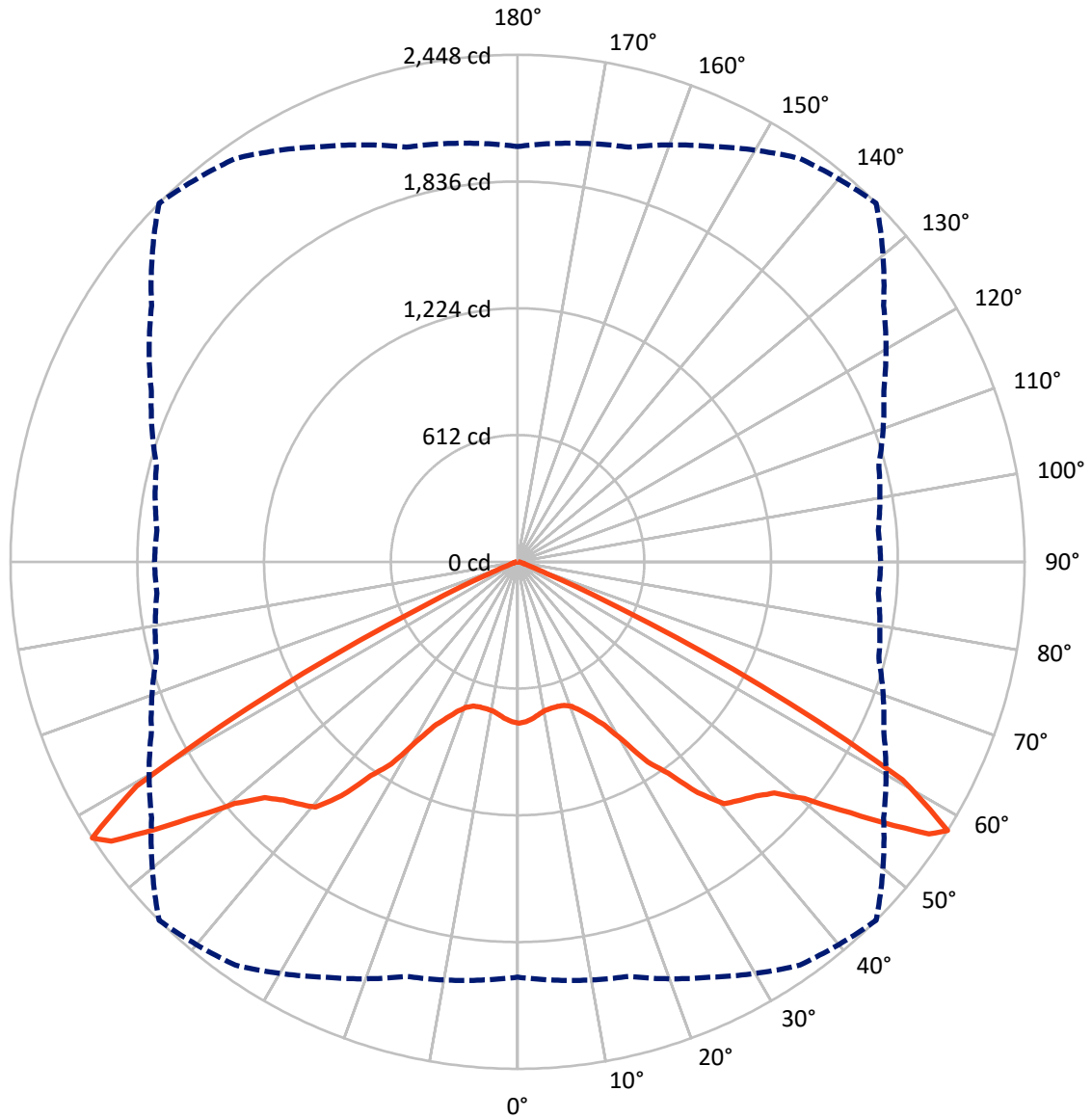
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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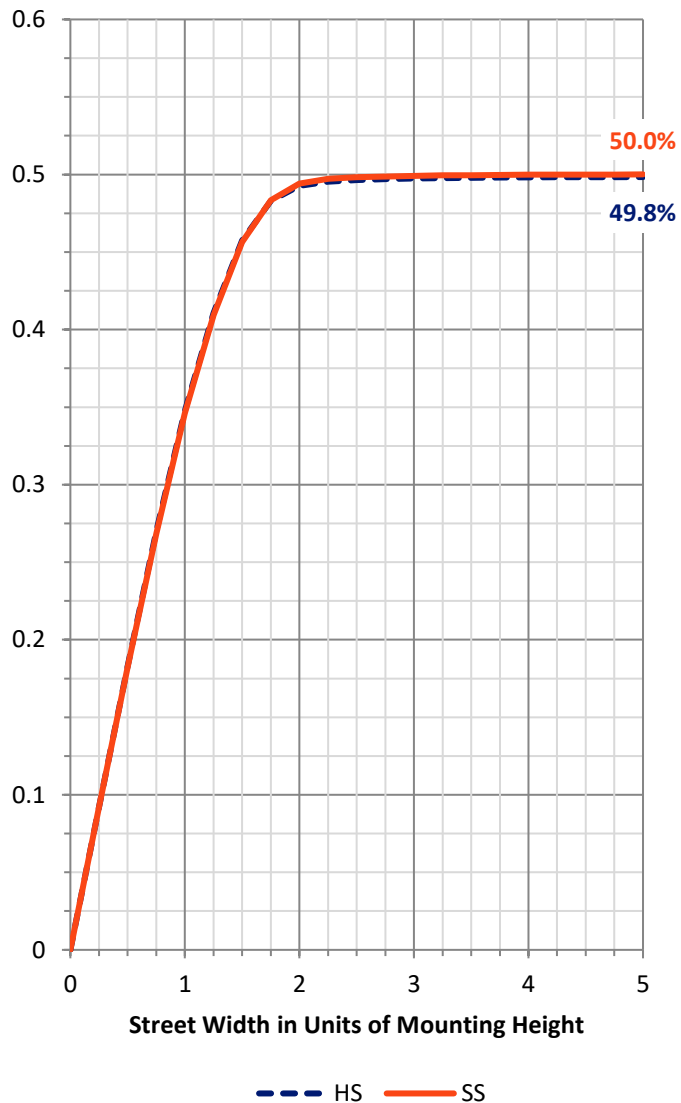
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2509.9	0.0	2509.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2509.9	0.0	2509.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5019.9	0.0	5019.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.4
10°-20°	206.8	4.1
20°-30°	381.8	7.6
30°-40°	750.8	15.0
40°-50°	1222.8	24.4
50°-60°	1743.9	34.7
60°-70°	603.8	12.0
70°-80°	32.4	0.6
80°-90°	6.1	0.1
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°	5019.9	100.0
0°-180°	5019.9	100.0

**Coefficient of Utilization**

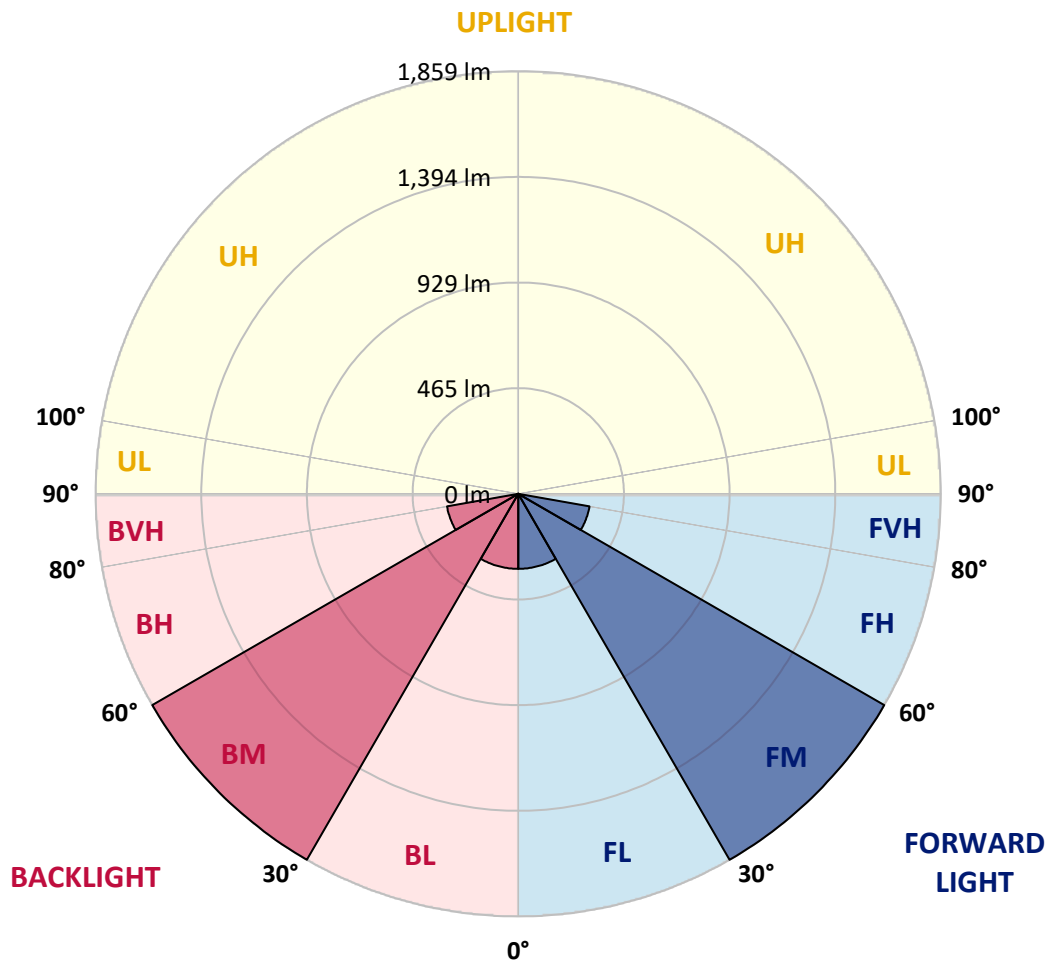


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.1	6.6			
FM (30°-60°)	1858.8	37.0			
FH (60°-80°)	318.1	6.3			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	330.1	6.6	B1/500		
BM (30°-60°)	1858.8	37.0	B2/2500		
BH (60°-80°)	318.1	6.3	B1/500		G0/660
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	778.7	778.7	778.7	778.7	778.7	778.7	778.7	778.7	778.7	778.7	778.7
2.5°	776.6	780.7	775.5	773.4	772.4	772.4	769.3	769.3	768.2	769.3	765.1
5°	764.0	768.2	768.2	767.2	760.9	759.8	756.6	754.5	755.6	751.4	754.5
7.5°	751.4	754.5	750.4	749.3	747.2	743.0	742.0	732.6	733.6	733.6	735.7
10°	749.3	748.3	742.0	736.8	730.5	729.5	726.3	724.2	724.2	723.2	726.3
12.5°	749.3	744.1	743.0	731.6	721.1	725.3	716.9	711.7	719.0	721.1	725.3
15°	748.3	753.5	735.7	730.5	723.2	724.2	716.9	711.7	715.9	718.0	721.1
17.5°	754.5	751.4	746.2	735.7	732.6	728.4	719.0	714.8	714.8	720.1	721.1
20°	771.3	763.0	752.4	747.2	750.4	745.1	733.6	718.0	722.2	726.3	729.5
22.5°	787.0	780.7	773.4	770.3	788.1	779.7	759.8	742.0	735.7	743.0	748.3
25°	817.4	817.4	803.7	807.9	827.8	828.9	805.8	774.5	770.3	773.4	775.5
27.5°	879.1	882.3	870.8	874.9	883.3	890.6	870.8	844.6	835.2	834.1	837.2
30°	946.1	952.3	951.3	969.1	993.2	997.3	968.1	925.2	896.9	891.7	895.8
32.5°	1034.0	1037.1	1035.0	1056.0	1120.9	1151.2	1074.8	1014.2	976.5	985.9	976.5
35°	1199.4	1196.2	1173.2	1177.4	1230.7	1252.8	1179.5	1140.7	1123.0	1141.8	1137.6
37.5°	1341.7	1330.2	1311.4	1338.5	1394.0	1413.9	1337.5	1269.5	1237.0	1268.4	1282.0
40°	1462.1	1432.7	1406.6	1433.8	1508.1	1535.3	1423.3	1367.9	1355.3	1378.3	1407.7
42.5°	1563.6	1544.7	1510.2	1512.3	1561.5	1574.0	1484.0	1451.6	1439.0	1475.6	1490.3
45°	1635.7	1618.0	1585.5	1583.4	1621.1	1612.8	1532.1	1510.2	1517.5	1541.6	1549.0
47.5°	1672.4	1681.8	1663.0	1668.2	1688.1	1668.2	1604.4	1604.4	1587.6	1602.3	1595.0
50°	1778.1	1748.8	1772.9	1772.9	1793.8	1795.9	1732.0	1709.1	1664.0	1638.9	1638.9
52.5°	1901.6	1903.7	1913.1	1947.7	1983.2	2013.6	1922.5	1824.1	1748.8	1716.4	1712.2
55°	2003.1	2024.0	2061.7	2126.6	2229.2	2271.0	2114.0	1938.3	1846.2	1795.9	1785.4
56°	2058.6	2038.7	2103.6	2192.6	2326.5	2381.0	2145.5	1961.3	1859.7	1803.2	1802.2
57.5°	2005.2	2027.2	2072.2	2212.4	2376.8	2447.9	2157.0	1950.8	1805.3	1747.8	1753.0
60°	1583.4	1604.4	1665.1	1822.0	2079.5	2135.0	1825.2	1608.6	1478.8	1396.1	1397.2
62.5°	895.8	911.6	958.7	1104.1	1264.3	1317.6	1137.6	993.2	903.1	857.1	842.5
65°	329.7	323.4	330.7	405.0	503.4	548.4	473.1	399.8	352.7	336.0	329.7
67.5°	123.5	114.0	106.7	114.0	143.4	151.7	139.2	116.1	108.8	112.0	114.0
70°	76.4	72.2	57.5	54.4	53.4	52.3	55.5	58.6	66.9	78.5	80.6
72.5°	53.4	50.2	40.8	38.7	36.7	35.6	40.8	45.0	52.3	60.7	61.7
75°	20.9	22.0	20.9	23.0	24.1	25.1	29.3	32.5	35.6	35.6	34.6
77.5°	4.2	4.2	6.3	8.4	10.4	13.6	19.8	23.0	24.1	23.0	19.8
80°	0.0	0.0	2.1	4.2	8.4	11.5	17.8	19.8	22.0	19.8	15.7
82.5°	0.0	0.0	2.1	5.2	8.4	10.4	16.7	20.9	24.1	22.0	16.7
85°	0.0	0.0	2.1	4.2	6.3	7.3	7.3	5.2	5.2	3.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)