

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: P652210

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8164.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

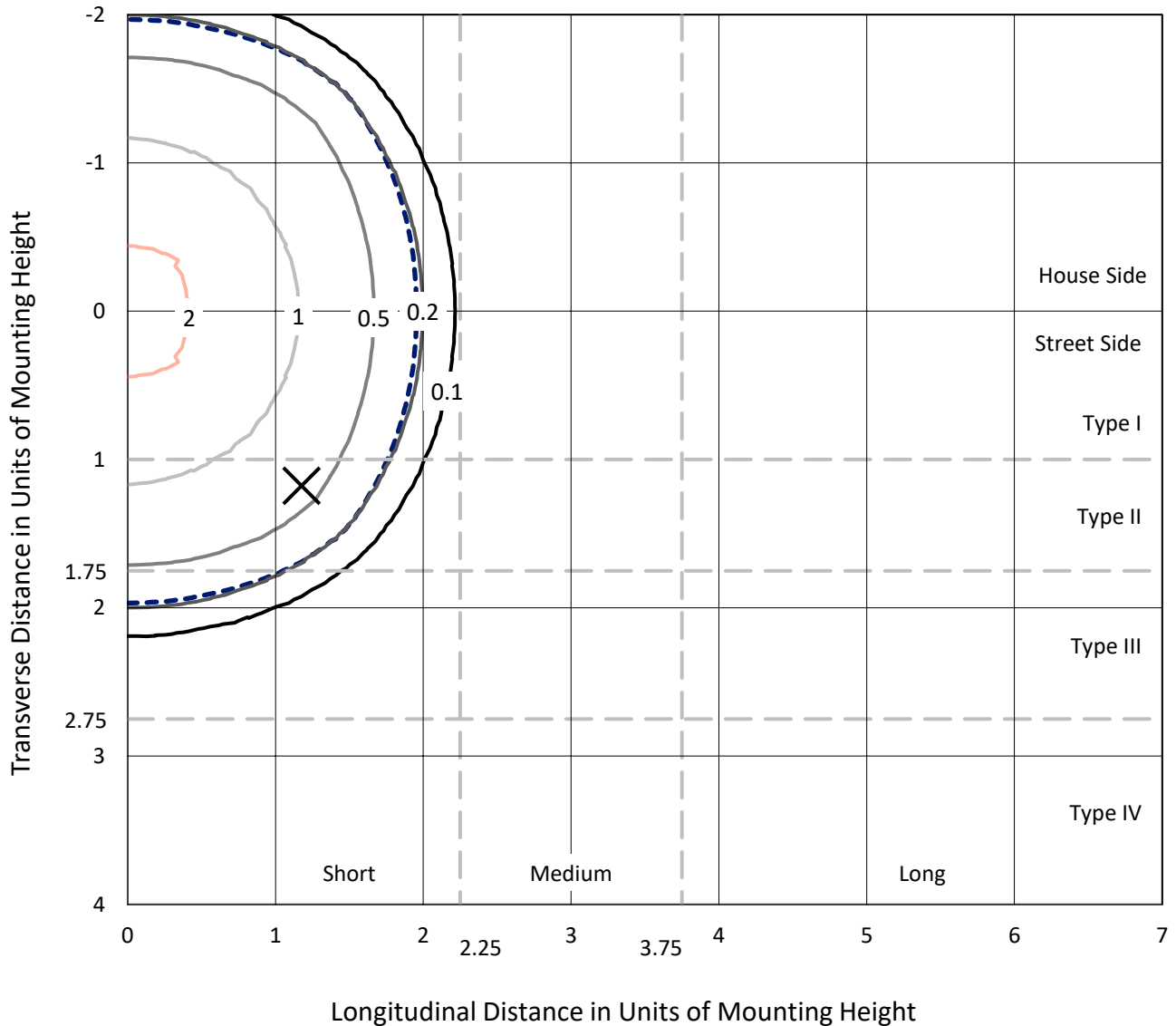
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

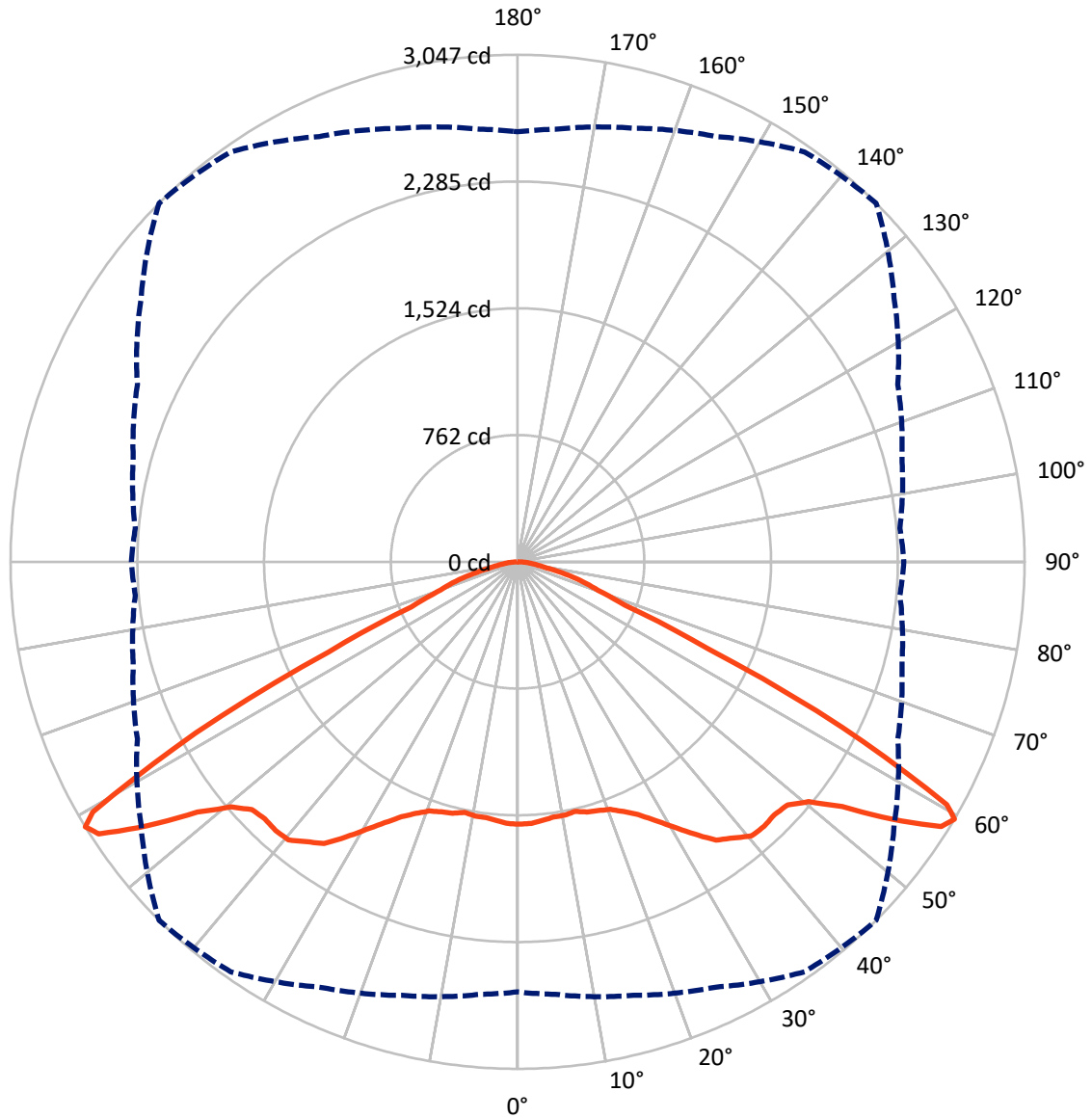
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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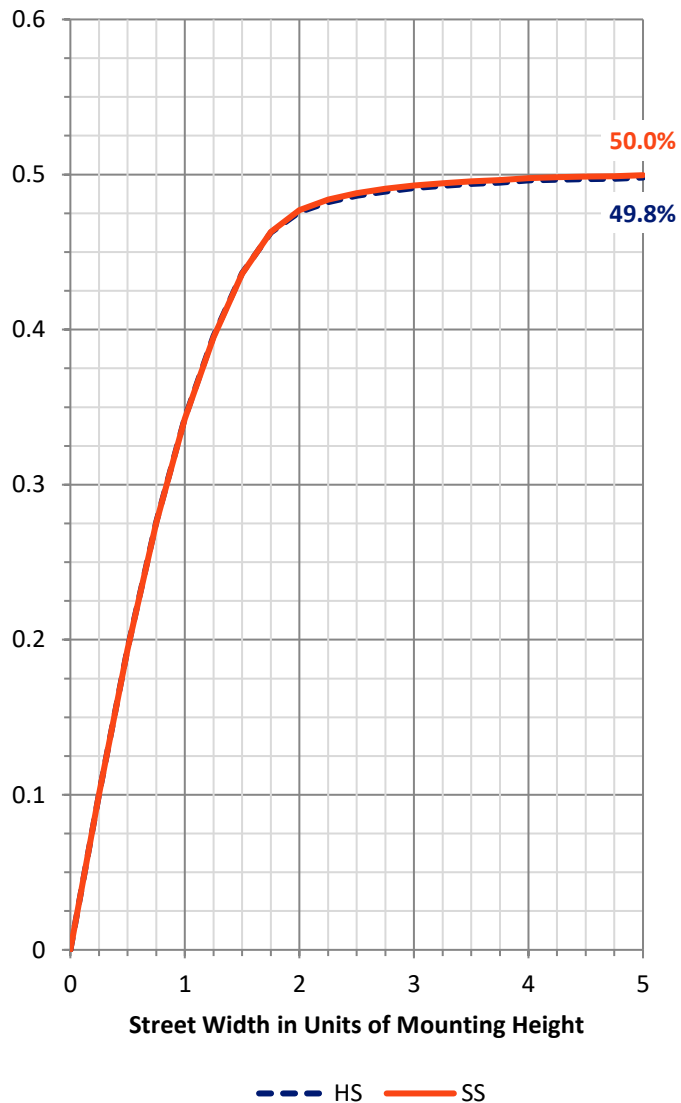
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4082.2	0.0	4082.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4082.2	0.0	4082.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8164.4	0.0	8164.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.8
10°-20°	442.1	5.4
20°-30°	771.9	9.5
30°-40°	1232.9	15.1
40°-50°	1679.4	20.6
50°-60°	2271.0	27.8
60°-70°	1245.4	15.3
70°-80°	318.6	3.9
80°-90°	54.3	0.7
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°	8164.4	100.0
0°-180°	8164.4	100.0

Coefficient of Utilization



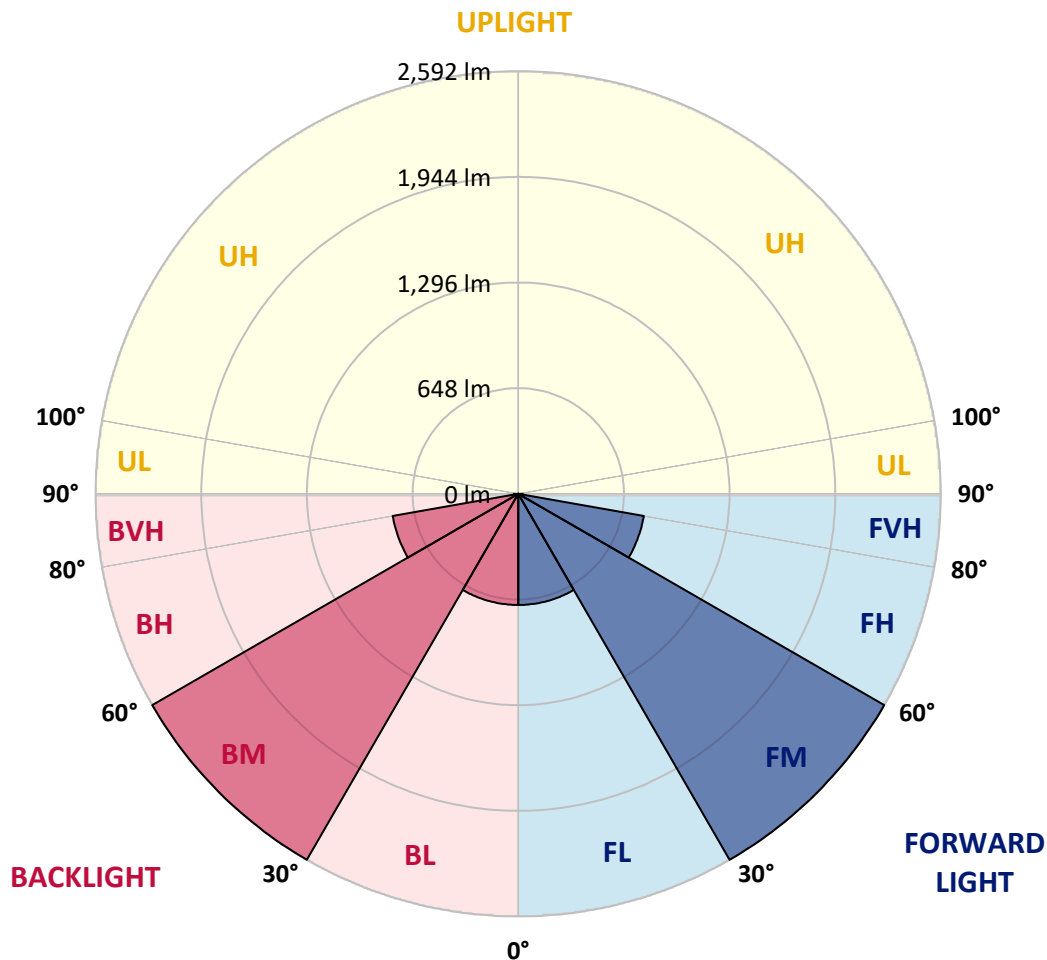
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.3	8.3			
FM (30°-60°)	2591.7	31.7			
FH (60°-80°)	782.0	9.6			G1/1800
FVH (80°-90°)	27.2	0.3			G1/100
BL (0°-30°)	681.3	8.3	B2/1000		
BM (30°-60°)	2591.7	31.7	B3/5000		
BH (60°-80°)	782.0	9.6	B2/1000		G1/1800
BVH (80°-90°)	27.2	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°	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0
2.5°	1567.5	1579.1	1570.7	1578.1	1577.0	1573.8	1568.6	1565.4	1561.3	1567.5	1557.1
5°	1561.3	1570.7	1580.2	1567.5	1567.5	1561.3	1558.1	1551.9	1551.9	1550.8	1549.8
7.5°	1571.7	1562.3	1558.1	1560.2	1562.3	1548.7	1558.1	1545.6	1535.2	1542.5	1550.8
10°	1562.3	1566.5	1550.8	1558.1	1546.6	1548.7	1542.5	1550.8	1539.3	1539.3	1539.3
12.5°	1571.7	1560.2	1565.4	1560.2	1557.1	1539.3	1547.7	1538.3	1537.2	1547.7	1538.3
15°	1590.6	1571.7	1567.5	1557.1	1560.2	1560.2	1551.9	1552.9	1541.4	1547.7	1549.8
17.5°	1584.3	1573.8	1570.7	1558.1	1568.6	1571.7	1556.0	1545.6	1552.9	1551.9	1550.8
20°	1589.6	1593.7	1590.6	1592.7	1596.9	1588.5	1573.8	1559.2	1549.8	1563.3	1562.3
22.5°	1623.0	1618.8	1616.7	1614.6	1622.0	1630.4	1610.4	1587.5	1587.5	1596.9	1601.0
25°	1650.2	1649.2	1648.1	1657.5	1682.7	1682.7	1657.5	1628.3	1620.9	1627.2	1622.0
27.5°	1690.0	1701.5	1697.3	1714.0	1750.7	1759.0	1725.6	1691.0	1671.2	1663.8	1673.3
30°	1781.1	1767.4	1770.6	1788.4	1820.8	1848.0	1796.7	1760.1	1732.9	1731.9	1736.1
32.5°	1841.7	1852.2	1861.6	1878.4	1929.6	1950.5	1888.8	1829.2	1812.4	1803.0	1806.1
35°	1963.1	1953.7	1951.6	1968.4	2019.6	2054.1	1976.7	1924.4	1902.4	1923.4	1923.4
37.5°	2078.2	2052.0	2032.2	2054.1	2101.2	2105.4	2039.5	2011.3	1999.7	2023.8	2022.8
40°	2132.6	2130.5	2084.5	2097.0	2159.9	2166.1	2104.4	2070.9	2068.8	2100.2	2131.6
42.5°	2189.1	2169.3	2123.2	2131.6	2170.3	2172.4	2113.8	2104.4	2127.4	2157.8	2159.9
45°	2198.5	2181.8	2152.5	2131.6	2159.9	2166.1	2131.6	2137.9	2139.9	2176.6	2176.6
47.5°	2217.4	2215.3	2198.5	2182.9	2188.1	2182.9	2160.9	2170.3	2201.7	2219.5	2211.2
50°	2269.7	2247.7	2264.5	2250.9	2251.9	2266.6	2246.7	2256.2	2249.8	2234.1	2223.7
52.5°	2384.8	2374.4	2389.0	2398.4	2408.9	2442.3	2419.4	2369.1	2322.0	2280.2	2279.1
55°	2553.3	2560.6	2588.9	2637.0	2677.8	2731.2	2620.3	2500.0	2424.6	2358.7	2362.9
57.5°	2712.4	2707.1	2745.9	2855.7	2975.0	3002.2	2784.6	2613.0	2490.5	2448.7	2430.8
59°	2584.7	2609.8	2697.7	2820.1	3007.4	3047.2	2762.6	2520.9	2391.1	2306.4	2321.0
60°	2383.8	2393.2	2471.7	2642.3	2895.5	2963.5	2615.0	2378.5	2205.9	2156.7	2178.7
62.5°	1684.8	1677.5	1734.0	1873.2	2100.2	2192.3	1944.3	1777.9	1669.0	1614.6	1627.2
65°	895.7	929.2	952.3	1039.1	1159.5	1256.8	1154.2	1082.0	1021.3	976.3	975.3
67.5°	604.8	600.6	605.9	625.8	666.6	693.8	691.7	655.1	649.8	641.4	650.8
70°	509.6	507.5	498.1	498.1	506.5	512.8	520.1	524.3	532.6	543.1	542.0
72.5°	413.4	408.1	401.8	398.7	409.1	412.3	421.7	425.9	433.2	432.2	441.6
75°	273.2	273.2	280.5	288.8	292.0	298.2	299.3	311.8	311.8	313.9	305.5
77.5°	152.8	148.6	153.8	162.2	169.5	181.1	192.5	201.9	207.2	205.1	205.1
80°	89.0	89.0	94.2	103.6	113.0	123.5	131.9	139.2	144.4	142.3	138.1
82.5°	55.4	55.4	60.7	70.1	77.5	83.7	95.2	104.6	110.9	108.8	103.6
85°	28.3	28.3	34.6	40.8	50.2	54.4	53.4	49.2	48.1	42.9	42.9
87.5°	7.3	7.3	10.4	11.5	9.4	10.4	10.4	10.4	10.4	10.4	11.5
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)