

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: P527052

Luminaire Tested: **GALN-SA2A-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527052
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-SA2A-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 8117 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

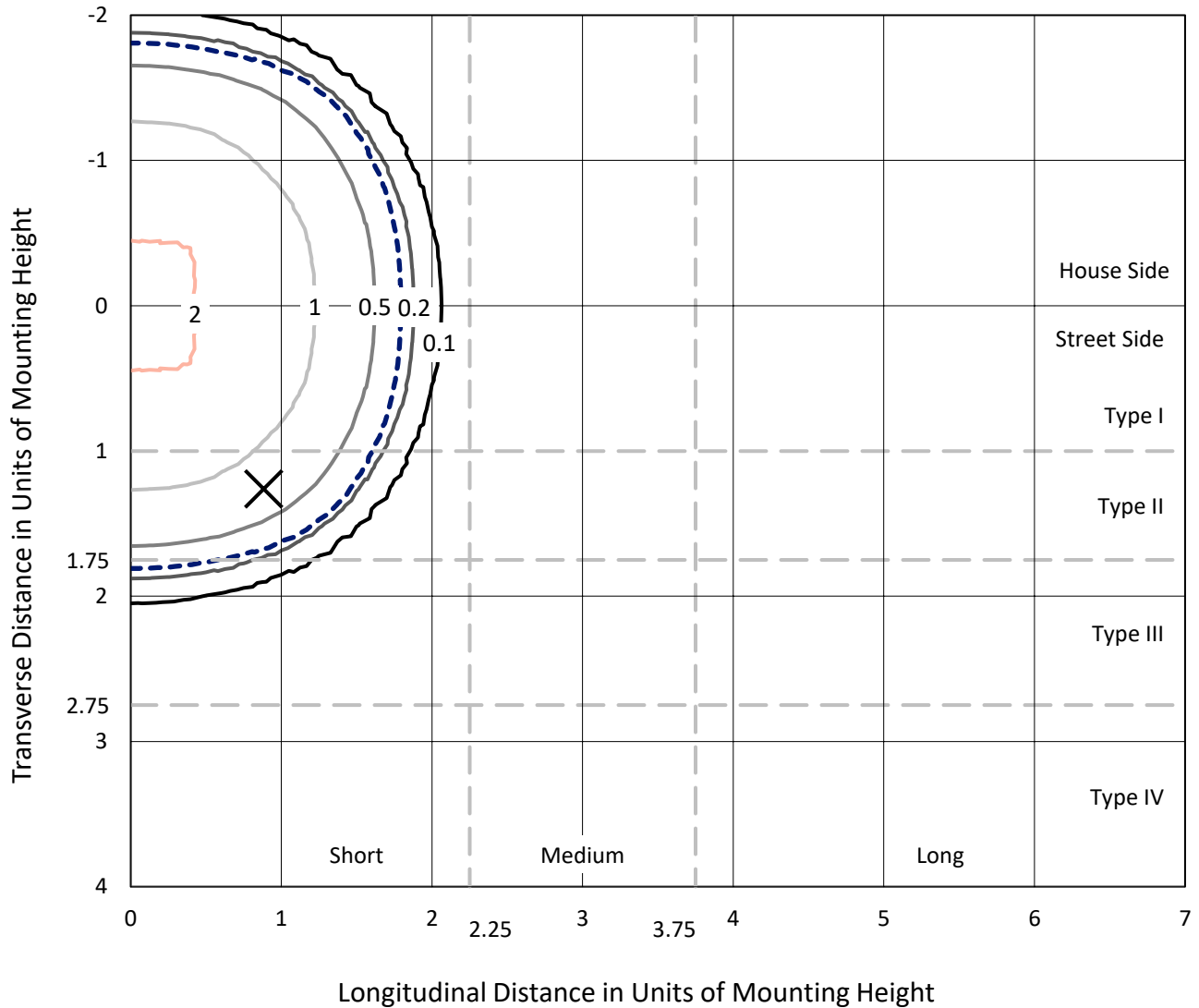
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

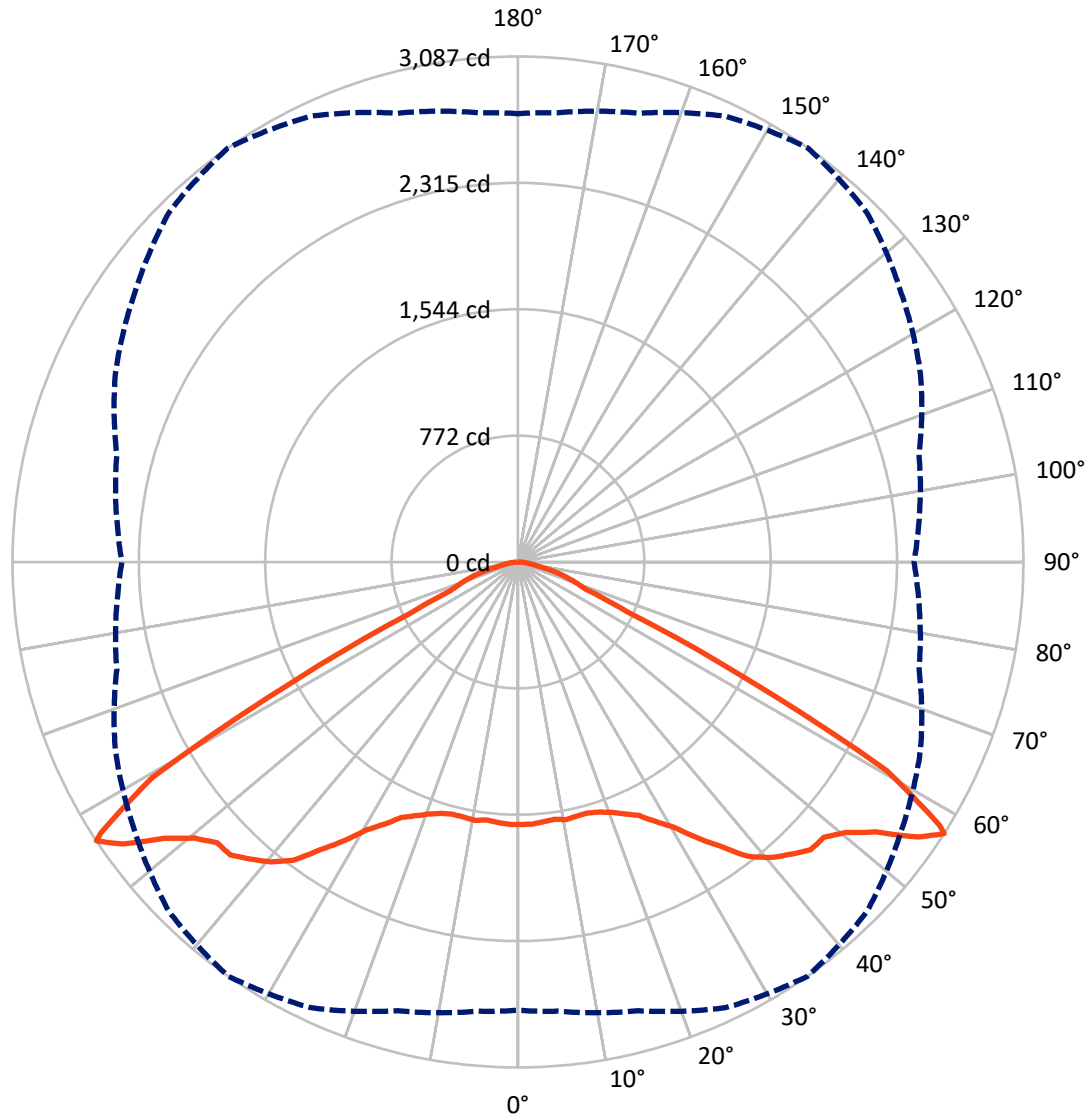
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

REPORT NUMBER: P527052
CATALOG NUMBER: GALN-SA2A-740-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

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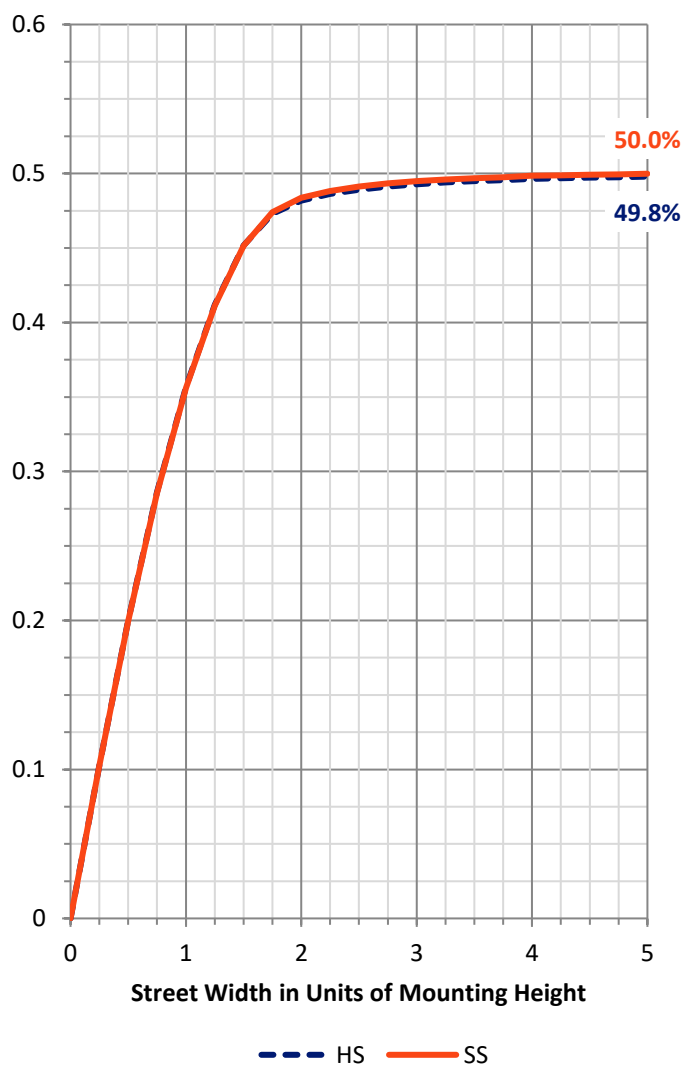
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4058.5	0.0	4058.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4058.5	0.0	4058.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8117.0	0.0	8117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	1.9
10°-20°	450.1	5.5
20°-30°	786.1	9.7
30°-40°	1288.1	15.9
40°-50°	1888.6	23.3
50°-60°	2378.9	29.3
60°-70°	894.6	11.0
70°-80°	237.9	2.9
80°-90°	40.8	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°	8117.0	100.0
0°-180°	8117.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527052

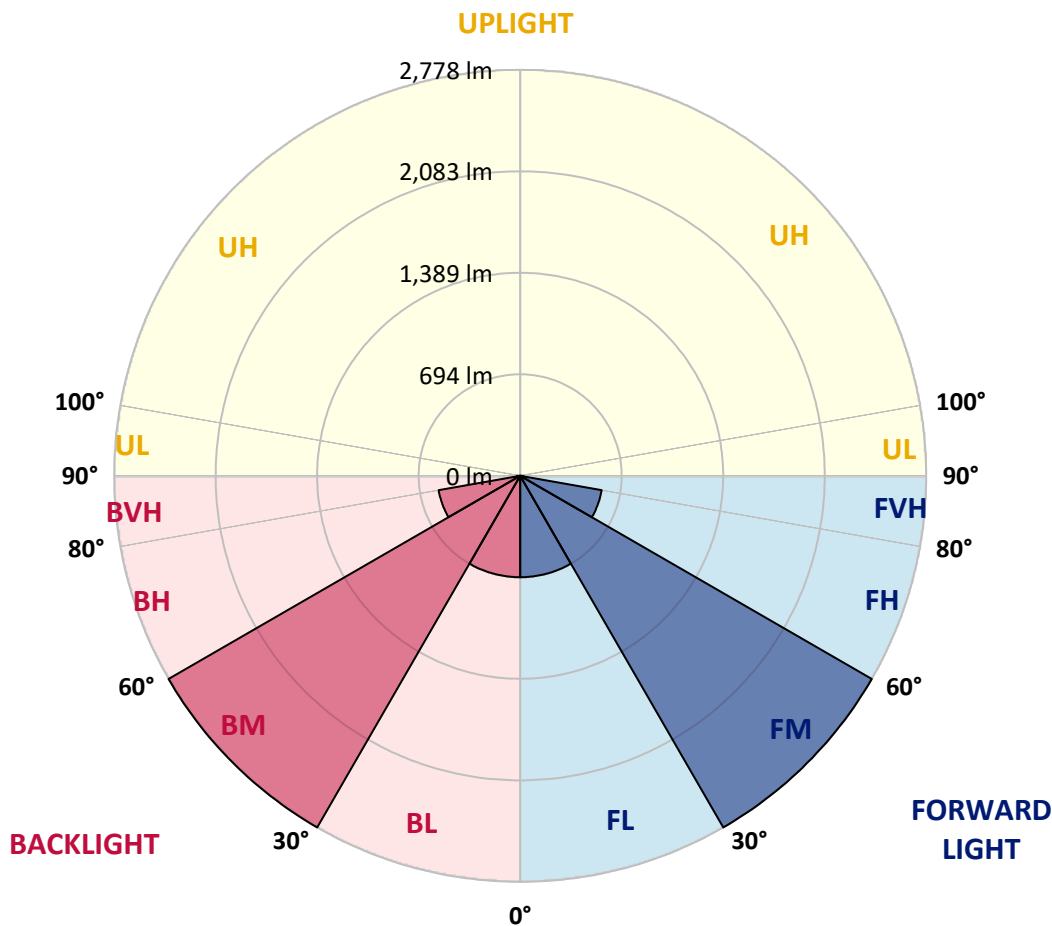
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.1	8.6			
FM (30°-60°)	2777.8	34.2			
FH (60°-80°)	566.3	7.0			G0/660
FVH (80°-90°)	20.4	0.3			G1/100
BL (0°-30°)	694.1	8.6	B2/1000		
BM (30°-60°)	2777.8	34.2	B3/5000		
BH (60°-80°)	566.3	7.0	B2/1000		G0/660
BVH (80°-90°)	20.4	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°	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0
2.5°	1595.0	1611.0	1604.0	1600.0	1603.0	1598.0	1590.0	1599.0	1597.0	1589.0	1586.0
5°	1591.0	1603.0	1595.0	1603.0	1595.0	1609.0	1605.0	1590.0	1608.0	1591.0	1597.0
7.5°	1588.0	1592.0	1594.0	1590.0	1587.0	1604.0	1595.0	1588.0	1578.0	1575.0	1580.0
10°	1581.0	1591.0	1576.0	1596.0	1600.0	1588.0	1588.0	1575.0	1567.0	1562.0	1579.0
12.5°	1599.0	1582.0	1580.0	1590.0	1593.0	1598.0	1584.0	1577.0	1562.0	1564.0	1561.0
15°	1578.0	1585.0	1586.0	1588.0	1591.0	1603.0	1590.0	1575.0	1569.0	1548.0	1550.0
17.5°	1586.0	1579.0	1586.0	1609.0	1605.0	1614.0	1600.0	1577.0	1563.0	1551.0	1567.0
20°	1600.0	1597.0	1600.0	1628.0	1633.0	1641.0	1629.0	1608.0	1581.0	1567.0	1575.0
22.5°	1615.0	1613.0	1615.0	1642.0	1671.0	1681.1	1669.0	1620.0	1606.0	1580.0	1571.0
25°	1642.0	1644.0	1665.0	1695.1	1714.1	1733.1	1711.1	1676.0	1631.0	1615.0	1596.0
27.5°	1702.1	1707.1	1719.1	1763.1	1796.1	1813.1	1782.1	1734.1	1706.1	1673.0	1668.0
30°	1776.1	1776.1	1797.1	1835.1	1880.1	1906.1	1868.1	1811.1	1777.1	1759.1	1748.1
32.5°	1874.1	1863.1	1871.1	1938.1	2008.1	2030.1	1979.1	1909.1	1855.1	1831.1	1823.1
35°	1958.1	1965.1	1983.1	2055.1	2133.1	2184.1	2104.1	2013.1	1958.1	1936.1	1932.1
37.5°	2067.1	2079.1	2088.1	2187.1	2281.1	2300.1	2223.1	2150.1	2083.1	2065.1	2055.1
40°	2221.1	2213.1	2216.1	2289.1	2374.1	2386.1	2310.1	2258.1	2203.1	2192.1	2192.1
42.5°	2348.1	2339.1	2349.1	2376.1	2441.1	2432.1	2390.1	2352.1	2329.1	2317.1	2329.1
45°	2425.1	2423.1	2441.1	2461.1	2507.1	2477.1	2444.1	2450.1	2428.1	2408.1	2407.1
47.5°	2509.1	2496.1	2518.1	2548.1	2513.1	2499.1	2497.1	2510.1	2503.1	2468.1	2457.1
50°	2550.1	2545.1	2580.1	2615.1	2596.1	2564.1	2571.1	2592.1	2502.1	2455.1	2428.1
52.5°	2660.1	2661.1	2728.1	2747.1	2739.1	2692.1	2707.1	2650.1	2544.1	2478.1	2481.1
55°	2833.1	2826.1	2901.1	2957.1	2966.1	2906.1	2834.1	2754.1	2621.1	2554.1	2534.1
57°	2738.1	2754.1	2837.1	3003.1	3087.1	3016.1	2859.1	2713.1	2536.1	2455.1	2419.1
57.5°	2611.1	2637.1	2781.1	2948.1	3036.1	3030.1	2828.1	2637.1	2479.1	2353.1	2356.1
60°	1913.1	1918.1	2048.1	2313.1	2588.1	2594.1	2348.1	2095.1	1919.1	1782.1	1801.1
62.5°	1009.0	1032.0	1084.0	1297.0	1535.0	1593.0	1444.0	1314.0	1162.0	1058.0	1068.0
65°	534.0	531.0	556.0	616.0	733.0	763.0	743.0	640.0	587.0	570.0	571.0
67.5°	434.0	439.0	436.0	439.0	447.0	460.0	457.0	461.0	464.0	469.0	468.0
70°	368.0	368.0	370.0	371.0	371.0	377.0	384.0	397.0	398.0	403.0	405.0
72.5°	290.0	288.0	291.0	298.0	299.0	304.0	314.0	322.0	325.0	325.0	319.0
75°	197.0	199.0	203.0	209.0	215.0	224.0	232.0	237.0	239.0	236.0	233.0
77.5°	111.0	113.0	116.0	125.0	132.0	140.0	149.0	154.0	159.0	160.0	154.0
80°	66.0	66.0	71.0	78.0	86.0	94.0	102.0	108.0	110.0	110.0	107.0
82.5°	40.0	41.0	45.0	52.0	59.0	64.0	71.0	76.0	80.0	79.0	77.0
85°	21.0	21.0	25.0	31.0	36.0	41.0	41.0	38.0	36.0	31.0	29.0
87.5°	7.0	6.0	8.0	8.0	7.0	8.0	8.0	9.0	9.0	9.0	9.0
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)