

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: P651879

Luminaire Tested: **GALN-SA5A-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651879
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-SA5A-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 10046.6 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

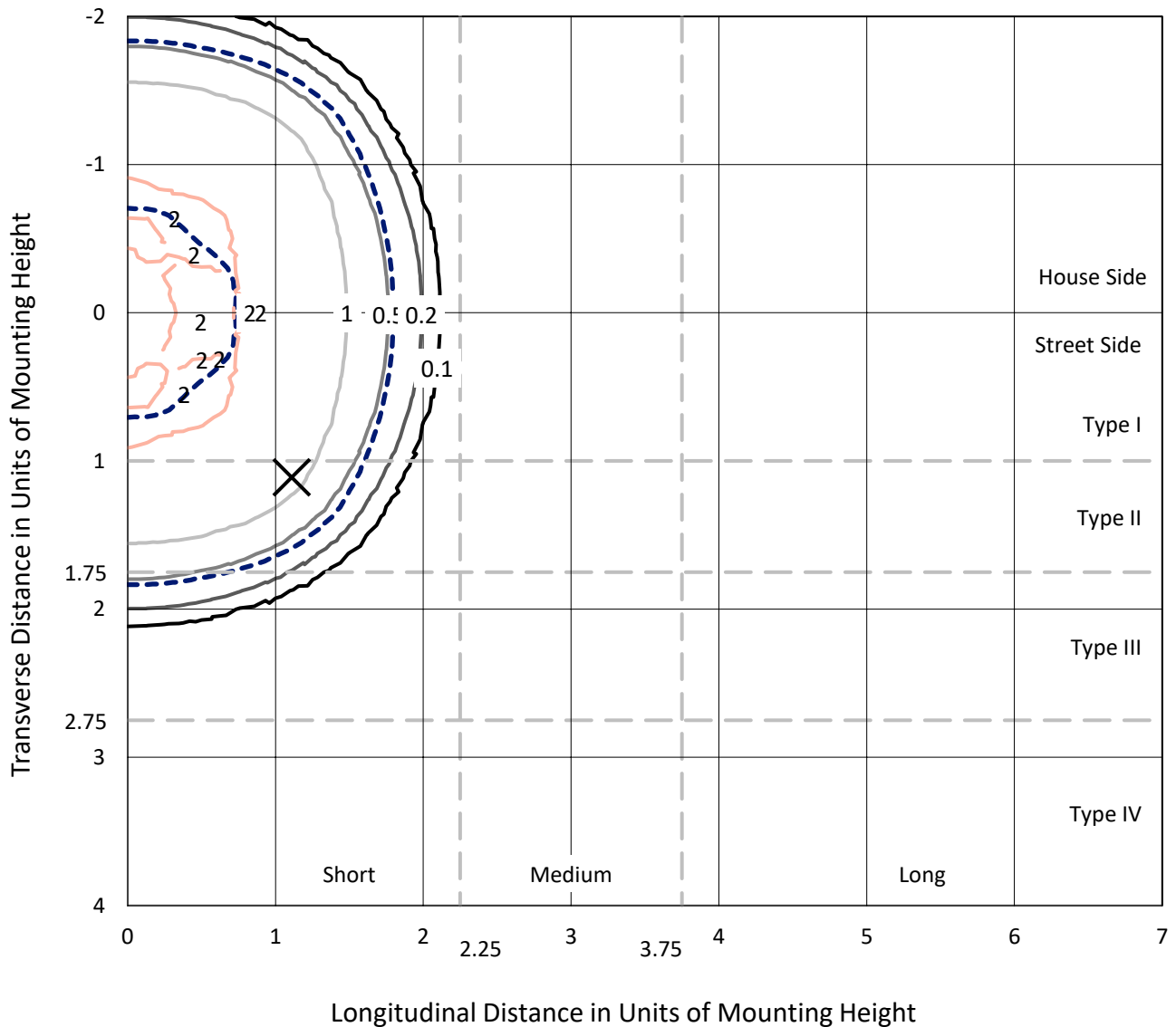
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

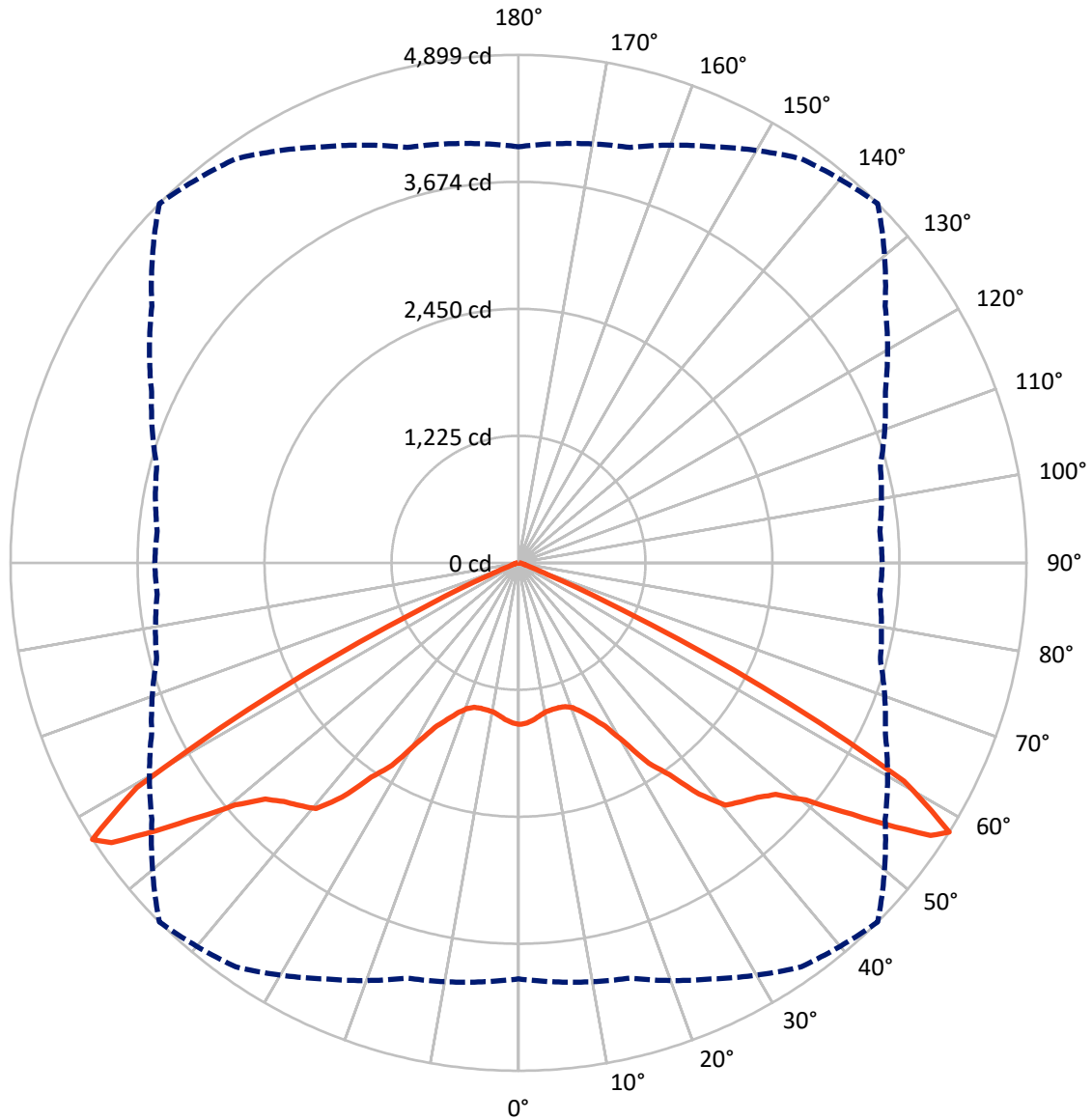
× Max cd
 - - - 1/2 Max cd



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 57.5-Deg Vertical

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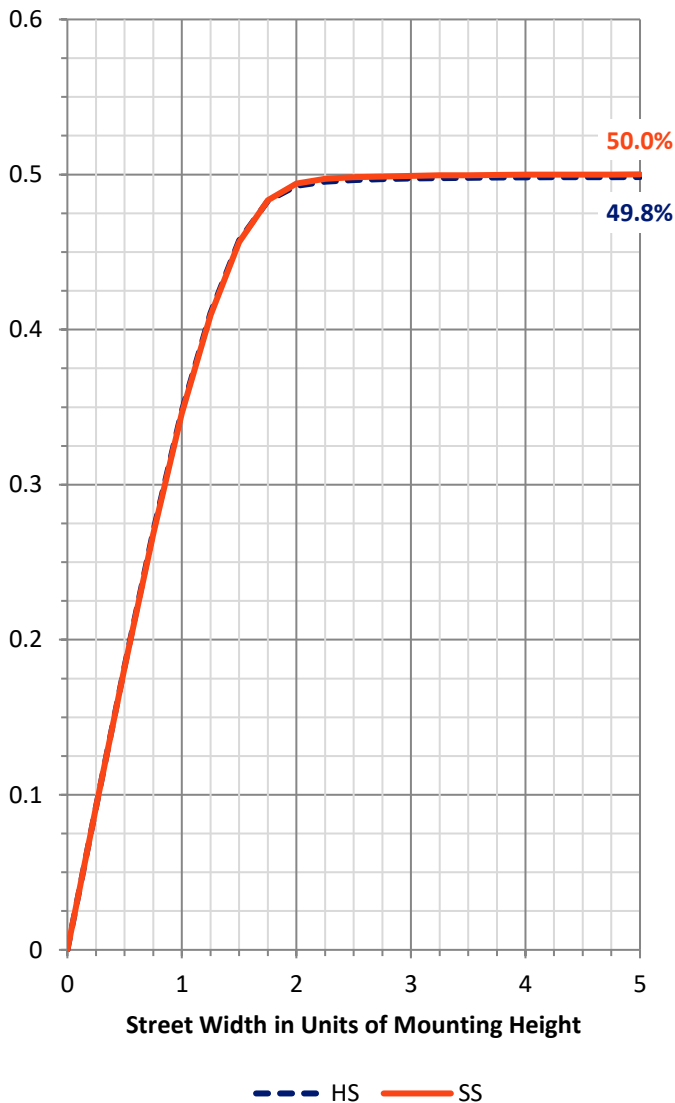
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5023.3	0.0	5023.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5023.3	0.0	5023.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10046.6	0.0	10046.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.4
10°-20°	413.9	4.1
20°-30°	764.0	7.6
30°-40°	1502.6	15.0
40°-50°	2447.3	24.4
50°-60°	3490.2	34.7
60°-70°	1208.4	12.0
70°-80°	64.8	0.6
80°-90°	12.2	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°	10046.6	100.0
0°-180°	10046.6	100.0

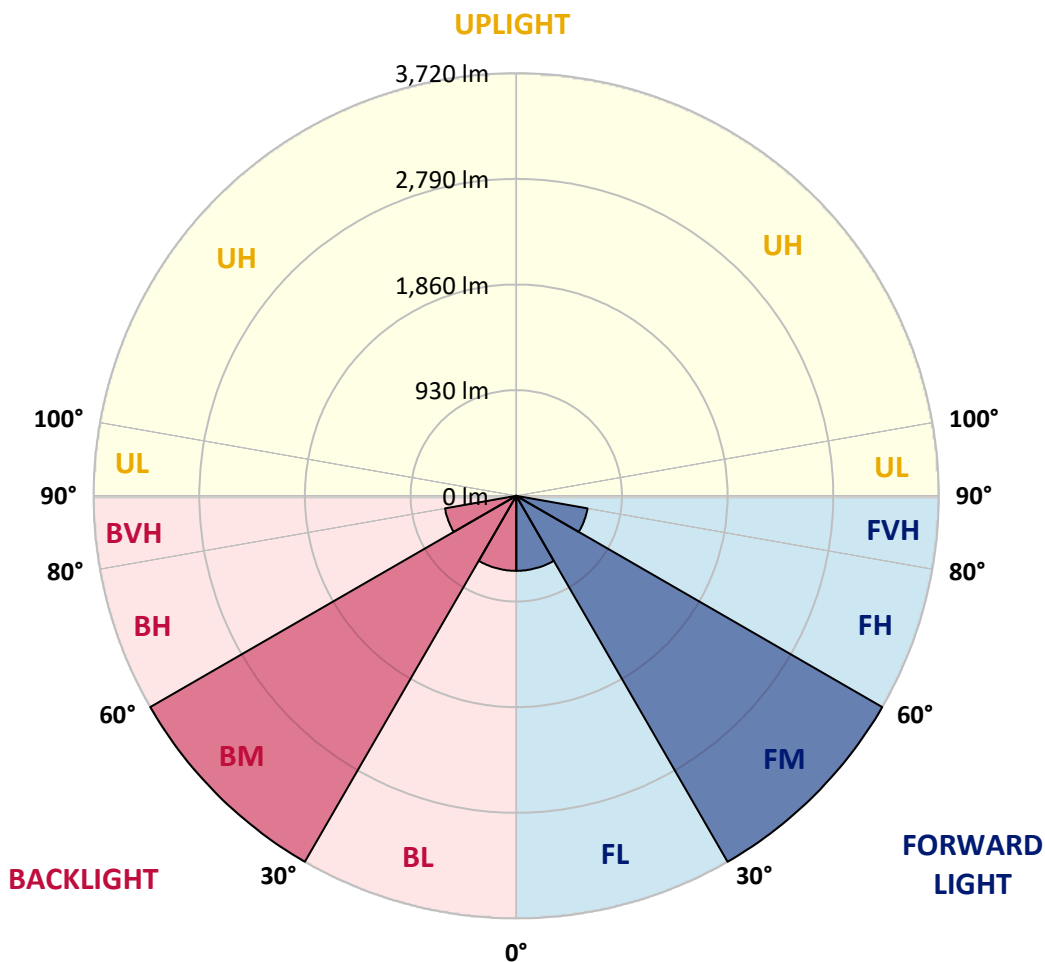


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.6	6.6			
FM (30°-60°)	3720.0	37.0			
FH (60°-80°)	636.6	6.3			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	660.6	6.6	B2/1000		
BM (30°-60°)	3720.0	37.0	B3/5000		
BH (60°-80°)	636.6	6.3	B2/1000		G0/660
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3	1558.3
2.5°	1554.2	1562.5	1552.1	1547.9	1545.8	1545.8	1539.5	1539.5	1537.3	1539.5	1531.1
5°	1529.0	1537.3	1537.3	1535.3	1522.7	1520.6	1514.3	1510.2	1512.3	1503.9	1510.2
7.5°	1503.9	1510.2	1501.8	1499.7	1495.5	1487.1	1485.0	1466.2	1468.3	1468.3	1472.4
10°	1499.7	1497.6	1485.0	1474.5	1462.0	1459.9	1453.6	1449.4	1449.4	1447.4	1453.6
12.5°	1499.7	1489.2	1487.1	1464.1	1443.2	1451.5	1434.7	1424.3	1439.0	1443.2	1451.5
15°	1497.6	1508.1	1472.4	1462.0	1447.4	1449.4	1434.7	1424.3	1432.6	1436.8	1443.2
17.5°	1510.2	1503.9	1493.4	1472.4	1466.2	1457.8	1439.0	1430.5	1430.5	1441.1	1443.2
20°	1543.7	1526.9	1506.0	1495.5	1501.8	1491.3	1468.3	1436.8	1445.3	1453.6	1459.9
22.5°	1575.1	1562.5	1547.9	1541.6	1577.2	1560.4	1520.6	1485.0	1472.4	1487.1	1497.6
25°	1635.8	1635.8	1608.6	1617.0	1656.8	1658.9	1612.8	1550.0	1541.6	1547.9	1552.1
27.5°	1759.4	1765.7	1742.6	1751.0	1767.8	1782.4	1742.6	1690.3	1671.4	1669.3	1675.6
30°	1893.4	1906.0	1903.9	1939.5	1987.7	1996.1	1937.4	1851.5	1795.0	1784.5	1792.9
32.5°	2069.4	2075.7	2071.5	2113.3	2243.3	2304.0	2151.1	2029.6	1954.2	1973.1	1954.2
35°	2400.3	2394.1	2348.0	2356.3	2463.2	2507.2	2360.5	2283.1	2247.4	2285.2	2276.8
37.5°	2685.2	2662.2	2624.4	2678.9	2789.9	2829.7	2676.8	2540.7	2475.7	2538.6	2565.8
40°	2926.1	2867.4	2815.1	2869.5	3018.2	3072.7	2848.6	2737.5	2712.4	2758.5	2817.2
42.5°	3129.2	3091.5	3022.4	3026.6	3125.1	3150.1	2970.1	2905.2	2880.0	2953.3	2982.6
45°	3273.8	3238.1	3173.2	3169.1	3244.4	3227.7	3066.4	3022.4	3037.1	3085.2	3099.9
47.5°	3347.1	3365.9	3328.2	3338.7	3378.5	3338.7	3210.9	3210.9	3177.4	3206.7	3192.1
50°	3558.6	3500.0	3548.1	3548.1	3590.1	3594.2	3466.4	3420.3	3330.3	3280.1	3280.1
52.5°	3805.8	3810.0	3828.8	3898.0	3969.1	4029.9	3847.7	3650.8	3500.0	3435.1	3426.7
55°	4009.0	4050.8	4126.2	4256.0	4461.3	4545.1	4231.0	3879.1	3694.8	3594.2	3573.2
56°	4120.0	4080.1	4210.0	4388.0	4656.1	4765.0	4293.8	3925.1	3722.0	3608.9	3606.8
57.5°	4013.1	4057.1	4147.1	4427.9	4756.7	4899.1	4316.9	3904.2	3613.1	3497.9	3508.3
60°	3169.1	3210.9	3332.4	3646.6	4161.9	4272.9	3652.9	3219.3	2959.6	2794.1	2796.2
62.5°	1792.9	1824.3	1918.6	2209.7	2530.2	2637.0	2276.8	1987.7	1807.6	1715.4	1686.1
65°	659.8	647.2	661.9	810.6	1007.4	1097.5	946.7	800.1	705.9	672.4	659.8
67.5°	247.2	228.3	213.6	228.3	286.9	303.7	278.5	232.5	217.8	224.1	228.3
70°	152.9	144.5	115.2	108.9	106.8	104.7	111.0	117.3	134.1	157.1	161.3
72.5°	106.8	100.5	81.7	77.5	73.3	71.2	81.7	90.1	104.7	121.5	123.5
75°	41.9	44.0	41.9	46.1	48.2	50.3	58.6	64.9	71.2	71.2	69.1
77.5°	8.4	8.4	12.5	16.7	20.9	27.2	39.8	46.1	48.2	46.1	39.8
80°	0.0	0.0	4.2	8.4	16.7	23.0	35.6	39.8	44.0	39.8	31.5
82.5°	0.0	0.0	4.2	10.5	16.7	20.9	33.5	41.9	48.2	44.0	33.5
85°	0.0	0.0	4.2	8.4	12.5	14.6	14.6	10.5	10.5	6.3	4.2
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)