

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: P651216

Luminaire Tested: **GALN-SA2D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8987.8 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

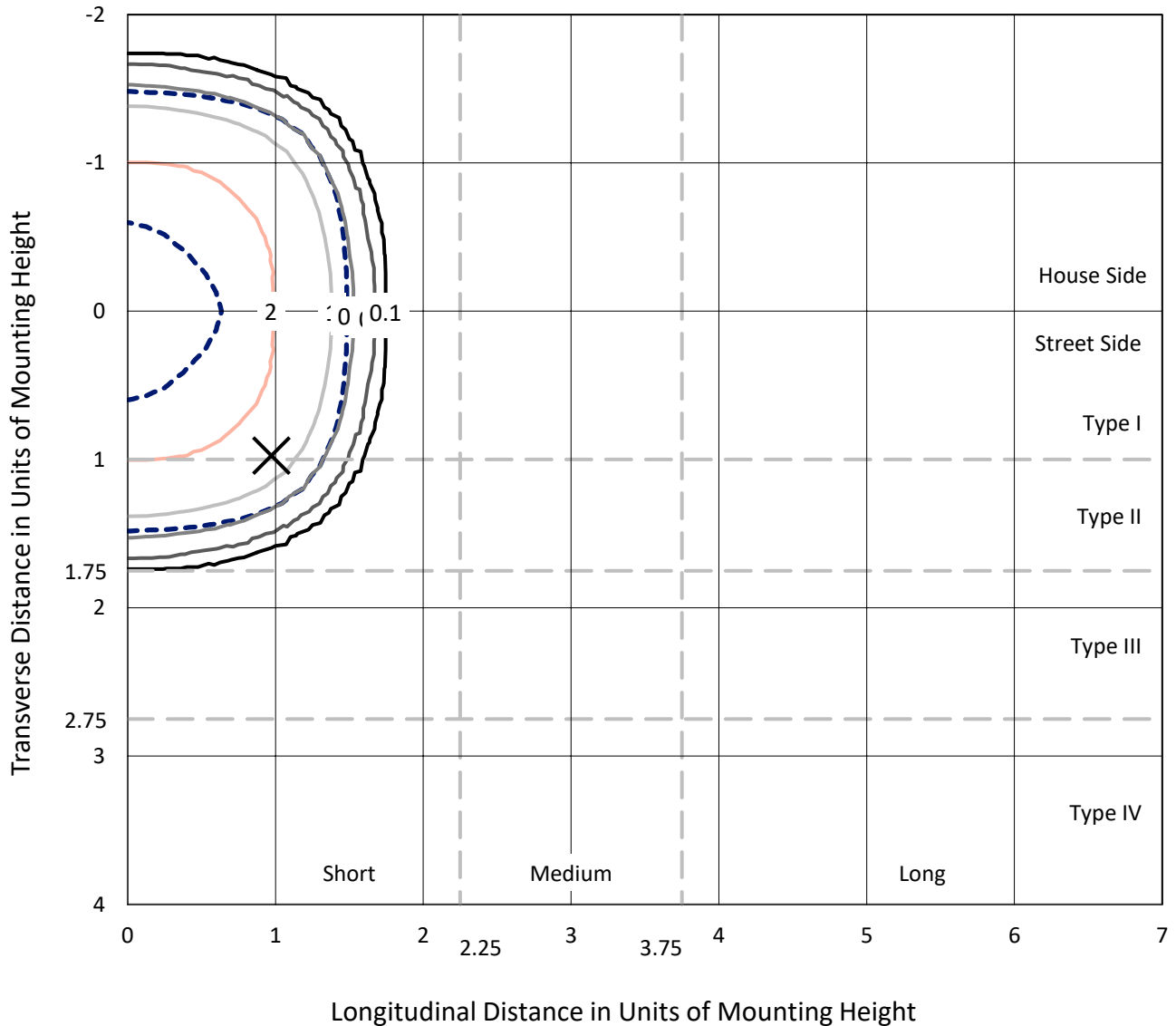
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

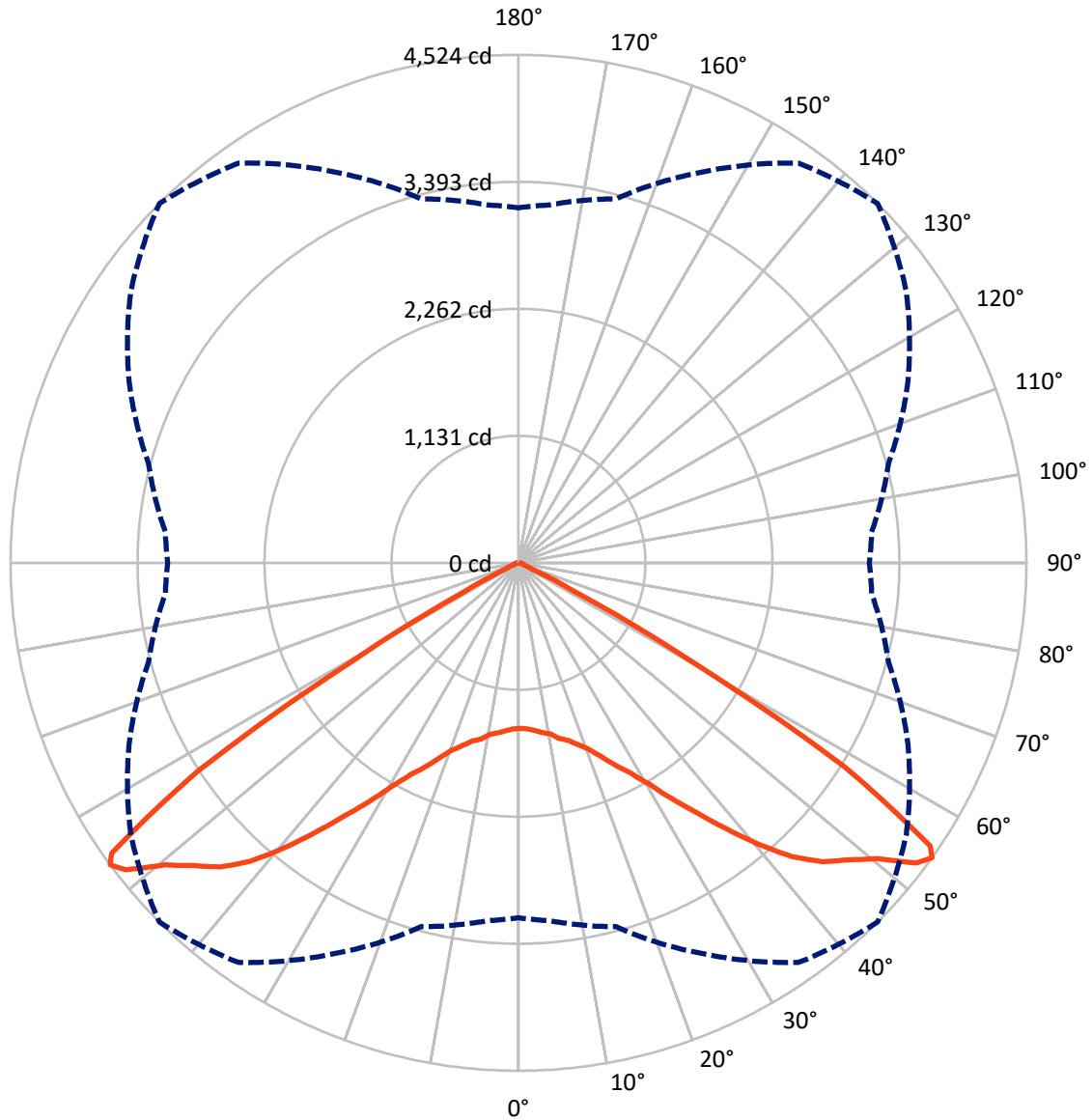
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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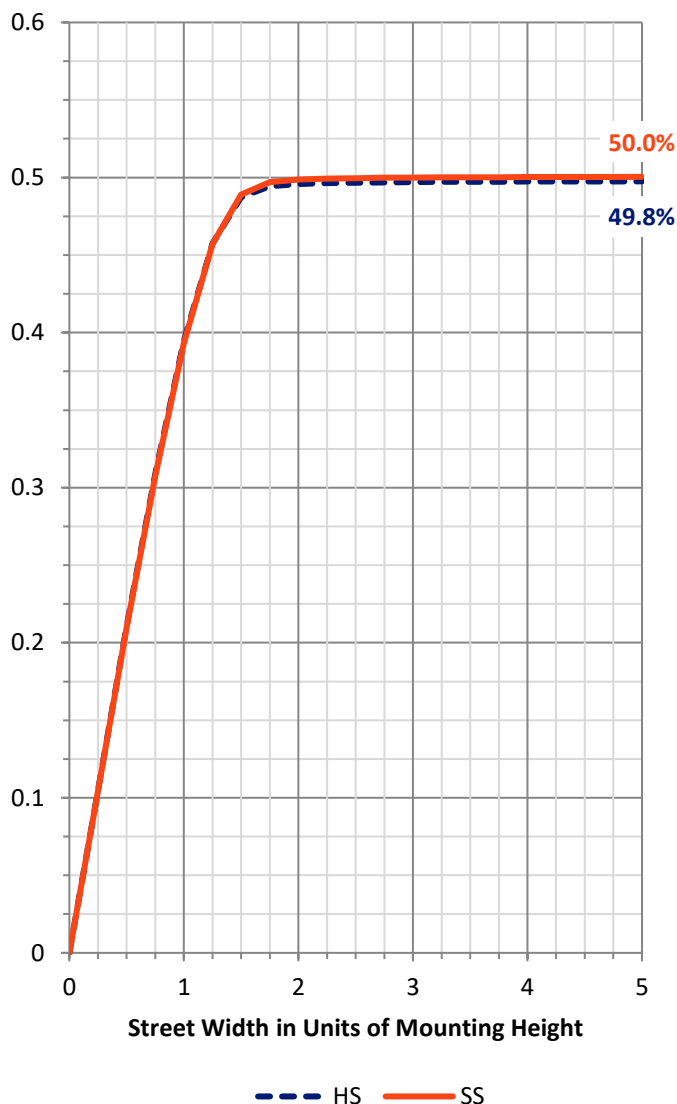
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4493.9	0.0	4493.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4493.9	0.0	4493.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8987.8	0.0	8987.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	1.6
10°-20°	467.1	5.2
20°-30°	915.5	10.2
30°-40°	1646.3	18.3
40°-50°	2818.1	31.4
50°-60°	2726.8	30.3
60°-70°	233.4	2.6
70°-80°	27.7	0.3
80°-90°	8.7	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°	8987.8	100.0
0°-180°	8987.8	100.0

**Coefficient of Utilization**



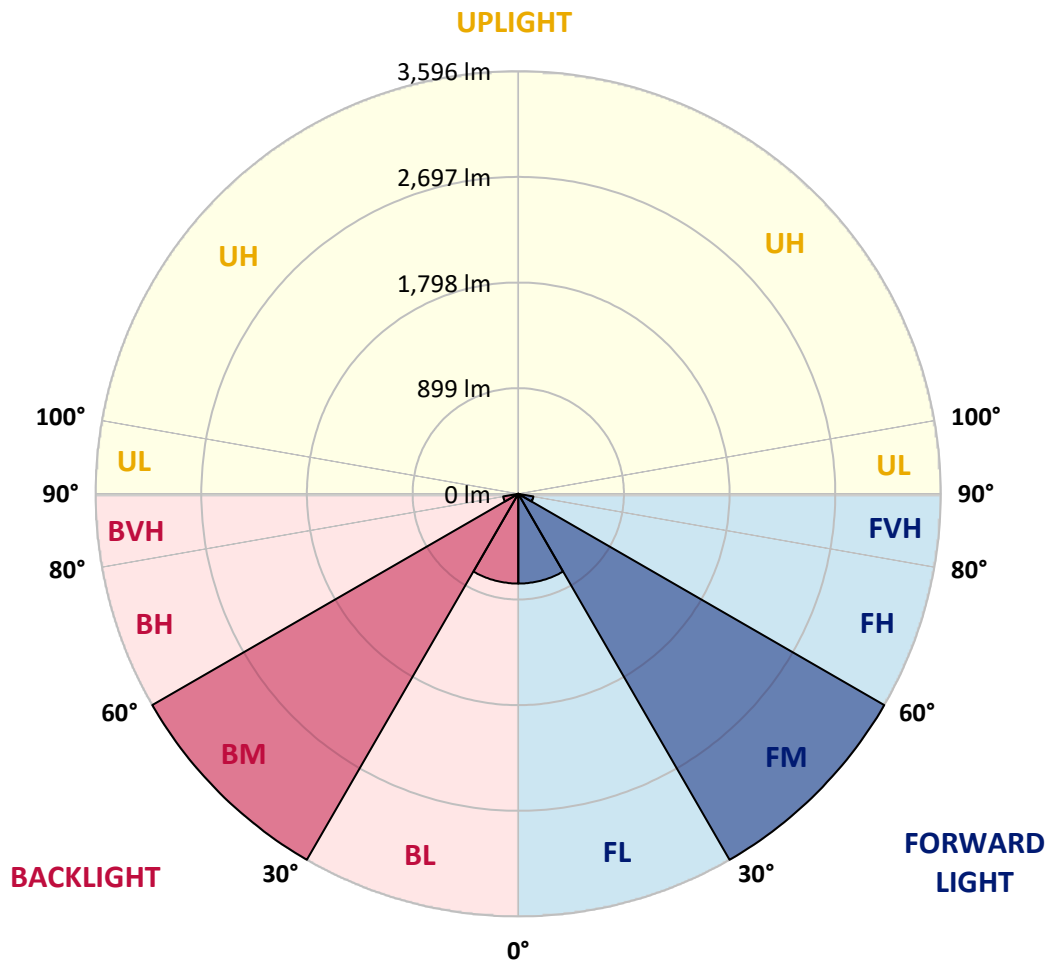
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.4	8.5			
FM (30°-60°)	3595.6	40.0			
FH (60°-80°)	130.5	1.5			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	763.4	8.5	B2/1000		
BM (30°-60°)	3595.6	40.0	B3/5000		
BH (60°-80°)	130.5	1.5	B1/500		G0/660
BVH (80°-90°)	4.3	0.0			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°	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7	1473.7
2.5°	1480.8	1489.4	1483.7	1488.0	1488.0	1480.8	1485.1	1468.0	1479.4	1470.8	1472.3
5°	1503.6	1502.2	1502.2	1503.6	1497.9	1500.8	1495.0	1489.4	1485.1	1479.4	1496.5
7.5°	1532.1	1532.1	1522.1	1525.0	1522.1	1526.4	1515.0	1503.6	1499.3	1495.0	1492.2
10°	1559.1	1556.3	1552.1	1564.8	1554.8	1549.2	1543.5	1536.3	1520.7	1515.0	1509.3
12.5°	1599.0	1597.6	1591.9	1604.7	1599.0	1604.7	1583.4	1564.8	1562.0	1543.5	1553.4
15°	1646.0	1658.8	1648.9	1648.9	1646.0	1638.9	1630.4	1621.8	1596.1	1589.1	1590.5
17.5°	1707.2	1702.9	1704.4	1704.4	1718.6	1700.1	1683.0	1661.6	1648.9	1644.6	1630.4
20°	1765.6	1771.3	1769.9	1779.8	1788.4	1768.5	1750.0	1747.1	1711.5	1717.2	1697.2
22.5°	1868.1	1863.8	1871.0	1878.1	1872.4	1869.5	1852.5	1831.1	1799.7	1785.5	1782.7
25°	1976.4	1969.2	1956.4	1973.5	1982.1	1994.9	1962.1	1950.7	1902.3	1881.0	1882.3
27.5°	2068.9	2078.9	2093.1	2100.2	2121.6	2117.3	2094.5	2057.5	2020.5	1996.3	1980.6
30°	2195.6	2201.3	2225.5	2235.5	2272.6	2282.5	2246.9	2204.2	2138.7	2107.4	2088.8
32.5°	2312.4	2352.3	2350.8	2400.6	2460.4	2501.7	2437.6	2372.2	2306.7	2269.7	2236.9
35°	2501.7	2494.7	2536.0	2588.6	2685.4	2732.4	2662.7	2587.2	2487.5	2427.7	2402.1
37.5°	2678.3	2681.2	2736.7	2820.7	2931.7	3004.4	2943.2	2819.3	2716.8	2639.9	2604.2
40°	2934.6	2940.3	2997.2	3092.7	3218.0	3296.3	3225.1	3099.8	2963.1	2903.3	2903.3
42.5°	3235.1	3259.3	3296.3	3378.9	3491.3	3578.2	3514.1	3415.9	3277.8	3200.8	3212.3
45°	3544.1	3555.4	3579.6	3702.1	3754.7	3797.5	3737.7	3692.1	3599.6	3505.6	3489.9
47.5°	3833.1	3837.3	3908.5	3947.0	3988.3	3952.7	3991.1	3931.3	3827.4	3736.2	3717.7
50°	3961.2	3954.1	4055.2	4171.9	4203.3	4140.7	4107.9	4068.0	3910.0	3800.3	3752.0
52.5°	3588.2	3629.5	3817.4	4142.1	4387.0	4439.6	4248.8	4065.1	3770.5	3556.8	3524.1
54°	3161.0	3199.4	3354.7	3836.0	4345.7	4523.7	4216.1	3826.0	3410.2	3156.8	3124.0
55°	2738.1	2695.4	2977.3	3468.5	4152.0	4449.6	4086.5	3517.0	3041.4	2809.3	2763.8
57.5°	1482.3	1489.4	1727.2	2191.3	2917.5	3411.6	3013.0	2379.3	1797.0	1536.3	1513.5
60°	469.9	481.3	585.3	885.7	1394.0	1664.5	1426.8	955.5	660.7	529.7	508.3
62.5°	146.7	152.4	166.6	247.8	381.6	545.3	427.1	256.3	190.8	175.1	178.0
65°	89.7	89.7	91.2	96.8	113.9	132.5	128.2	112.5	108.2	105.4	103.9
67.5°	58.4	56.9	59.8	64.1	66.9	68.4	72.6	76.9	75.4	72.6	72.6
70°	35.6	34.1	37.0	42.7	44.2	47.0	51.3	56.9	55.5	52.6	54.1
72.5°	19.9	19.9	21.4	25.7	29.9	32.7	37.0	41.3	42.7	41.3	41.3
75°	7.1	8.6	11.4	15.6	18.5	22.8	27.1	31.3	35.6	32.7	31.3
77.5°	2.9	2.9	5.7	10.0	14.2	18.5	25.7	29.9	32.7	29.9	27.1
80°	1.4	1.4	4.3	8.6	12.8	17.1	21.4	25.7	27.1	24.2	21.4
82.5°	1.4	1.4	4.3	8.6	12.8	15.6	22.8	25.7	28.5	25.7	21.4
85°	0.0	1.4	4.3	8.6	11.4	12.8	12.8	8.6	7.1	4.3	4.3
87.5°	0.0	0.0	1.4	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)