

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: P651215

Luminaire Tested: **GALN-SA2D-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13721.8 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

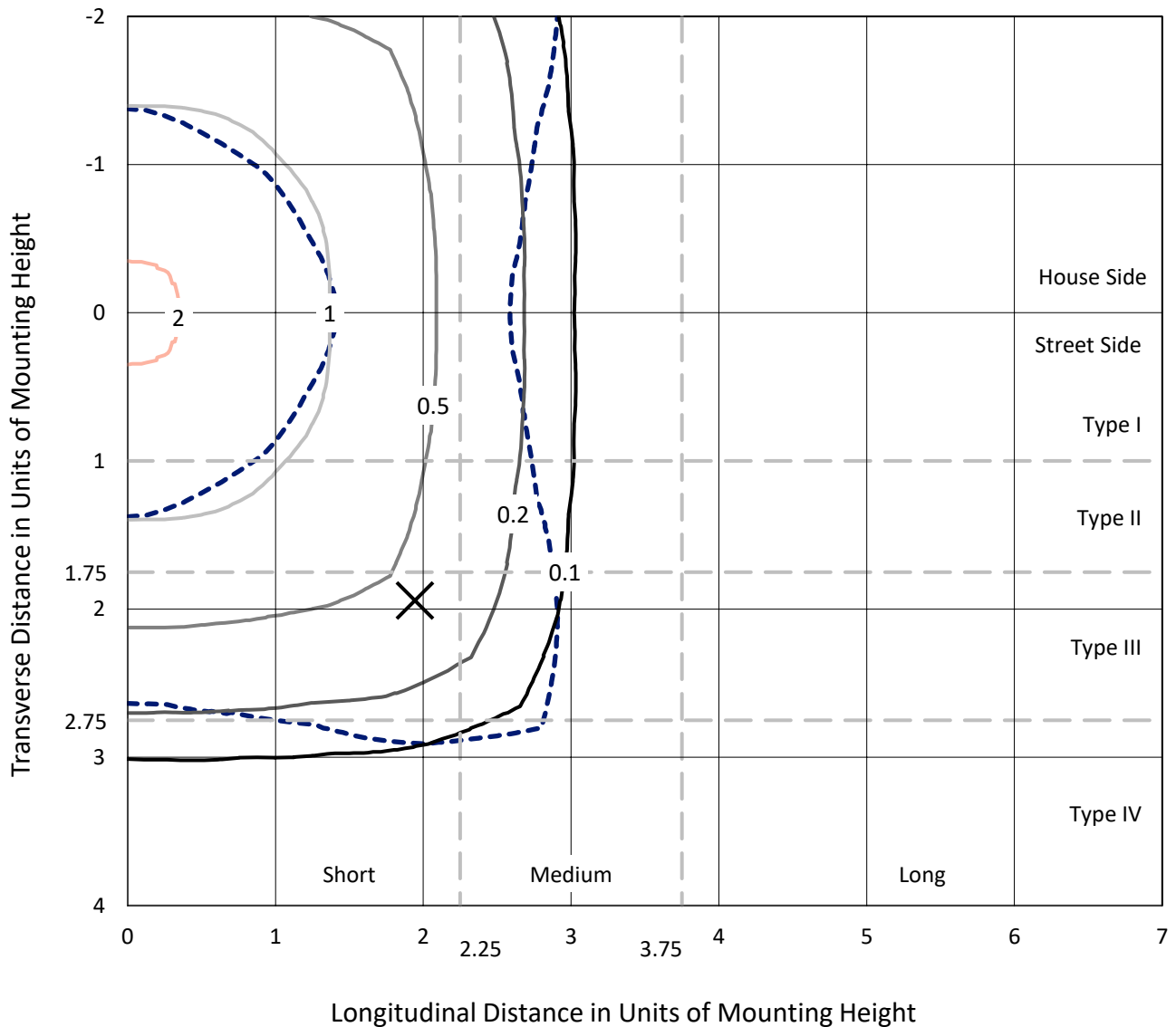
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

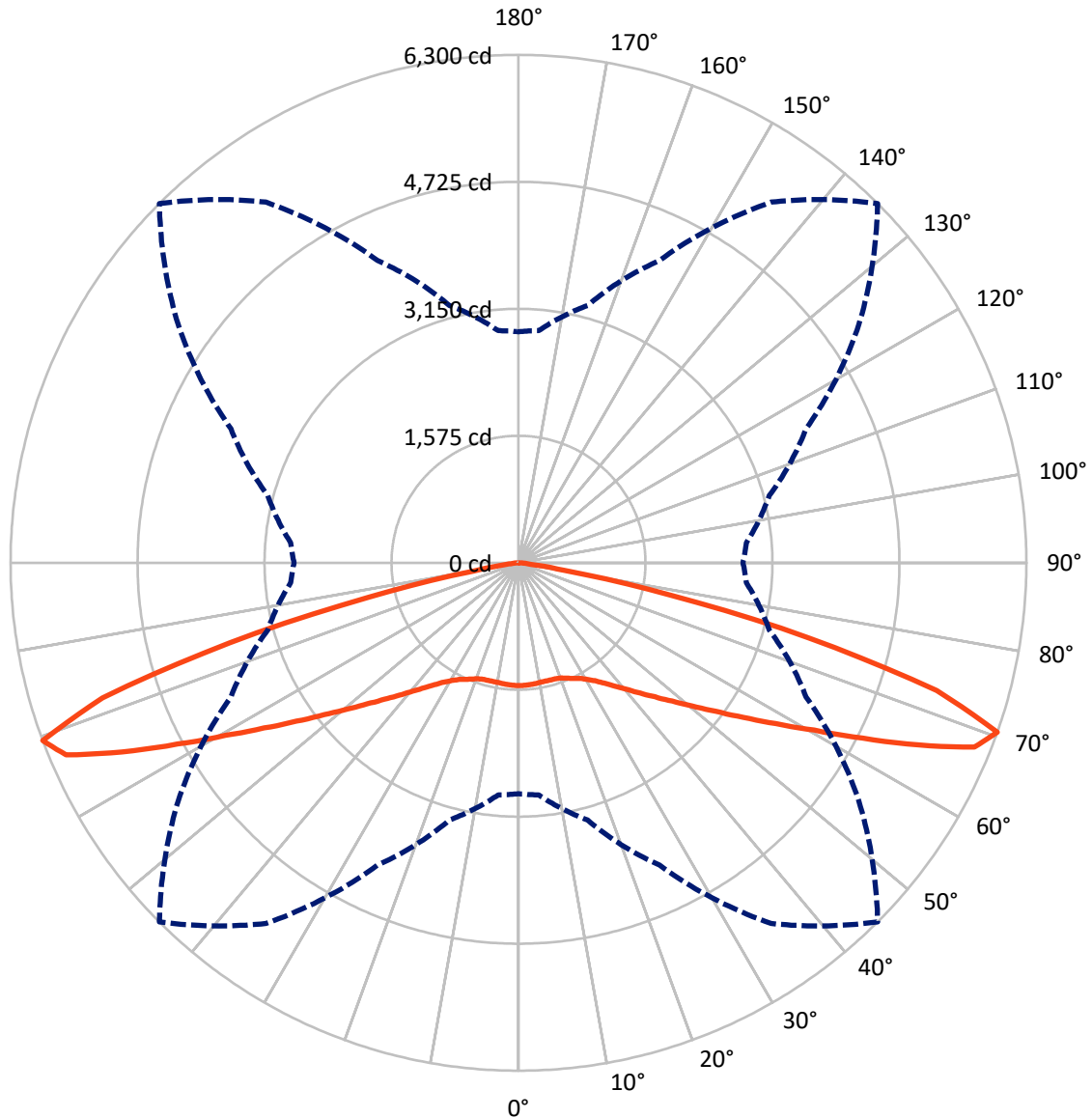
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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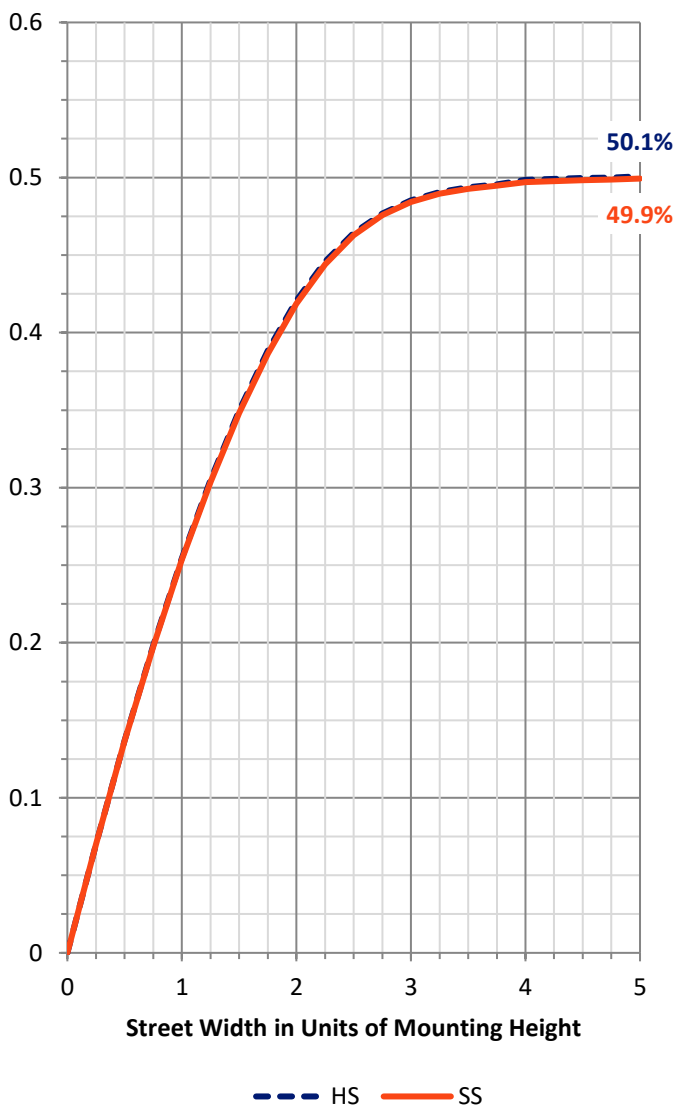
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6860.9	0.0	6860.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6860.9	0.0	6860.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	13721.8	0.0	13721.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.1
10°-20°	424.0	3.1
20°-30°	725.2	5.3
30°-40°	1151.0	8.4
40°-50°	1856.9	13.5
50°-60°	3021.2	22.0
60°-70°	4379.7	31.9
70°-80°	1942.7	14.2
80°-90°	76.6	0.6
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°	13721.8	100.0
0°-180°	13721.8	100.0

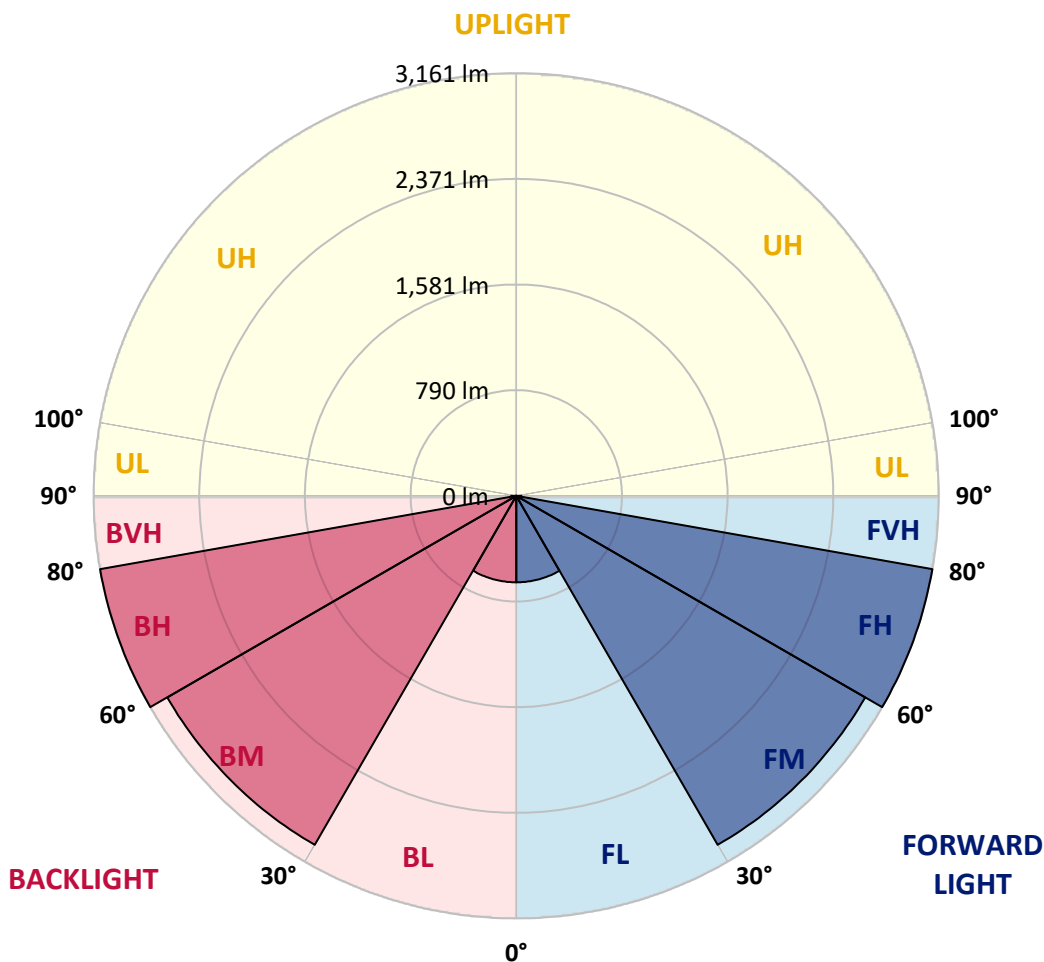


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.8	4.7			
FM (30°-60°)	3014.6	22.0			
FH (60°-80°)	3161.2	23.0			G2/5000
FVH (80°-90°)	38.3	0.3			G1/100
BL (0°-30°)	646.8	4.7	B2/1000		
BM (30°-60°)	3014.6	22.0	B3/5000		
BH (60°-80°)	3161.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	38.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7	1523.7
2.5°	1523.7	1525.2	1523.1	1521.5	1520.9	1520.9	1520.1	1520.9	1525.2	1525.9	1523.7
5°	1519.4	1520.9	1520.1	1518.7	1517.9	1517.9	1517.2	1516.5	1520.1	1521.5	1520.9
7.5°	1513.6	1514.3	1513.6	1512.9	1513.6	1512.9	1510.7	1509.3	1512.2	1512.2	1511.4
10°	1503.5	1505.0	1504.2	1505.0	1506.4	1506.4	1503.5	1500.6	1501.4	1499.8	1499.8
12.5°	1491.2	1493.4	1494.1	1497.0	1500.6	1505.0	1498.4	1491.9	1490.5	1489.7	1489.0
15°	1483.3	1485.4	1488.3	1491.2	1497.7	1507.1	1497.7	1487.6	1484.7	1481.8	1480.3
17.5°	1481.1	1483.9	1488.3	1492.6	1501.4	1510.7	1502.8	1492.6	1485.4	1481.1	1479.7
20°	1486.9	1489.0	1495.6	1503.5	1515.8	1525.2	1517.2	1506.4	1495.6	1489.0	1486.9
22.5°	1498.4	1502.0	1510.0	1524.5	1541.8	1555.6	1544.7	1526.7	1509.3	1500.6	1497.7
25°	1523.7	1526.7	1536.0	1555.6	1575.8	1588.8	1577.2	1556.3	1532.4	1520.9	1517.2
27.5°	1562.1	1566.4	1576.5	1599.7	1616.3	1623.6	1615.6	1601.1	1583.8	1571.5	1568.5
30°	1616.3	1621.4	1636.6	1661.1	1672.0	1676.4	1672.7	1663.3	1651.1	1638.0	1635.1
32.5°	1689.3	1692.3	1709.6	1732.7	1742.9	1744.3	1739.9	1735.7	1715.4	1693.7	1692.3
35°	1771.1	1776.1	1797.1	1824.5	1834.0	1834.7	1826.1	1819.5	1795.6	1778.3	1778.3
37.5°	1879.6	1881.7	1901.9	1933.0	1943.2	1940.3	1936.0	1930.2	1904.9	1882.4	1883.2
40°	2006.8	2011.2	2028.5	2064.7	2064.7	2061.0	2064.0	2059.6	2034.3	2012.6	2013.4
42.5°	2157.9	2160.1	2181.1	2219.4	2216.5	2209.3	2212.2	2206.4	2190.5	2165.9	2157.2
45°	2319.2	2327.9	2364.1	2401.0	2395.2	2372.0	2383.6	2382.1	2367.7	2330.8	2332.9
47.5°	2513.7	2528.2	2562.9	2607.0	2600.5	2564.4	2577.4	2586.1	2565.8	2525.4	2518.1
50°	2732.9	2742.3	2793.6	2834.8	2829.0	2790.8	2820.4	2821.8	2771.2	2714.1	2714.1
52.5°	2966.5	2975.9	3045.3	3109.7	3113.3	3057.6	3081.4	3080.0	2997.6	2922.4	2907.9
55°	3228.3	3232.6	3322.3	3417.0	3437.3	3383.0	3386.0	3357.0	3250.0	3162.5	3154.5
57.5°	3498.7	3514.6	3613.7	3736.6	3796.7	3763.4	3748.3	3670.9	3567.4	3466.9	3461.9
60°	3798.1	3798.9	3927.6	4073.0	4194.4	4216.9	4154.6	4051.3	3917.5	3784.4	3778.6
62.5°	4005.7	4036.8	4199.5	4445.4	4663.1	4788.9	4624.7	4407.8	4144.5	3929.7	3908.0
65°	4048.3	4069.3	4317.4	4733.9	5178.7	5449.8	5070.2	4608.8	4159.8	3873.3	3858.8
67.5°	3703.4	3725.8	4059.9	4699.2	5540.3	6096.4	5359.4	4511.9	3902.2	3547.9	3519.7
70°	2864.5	2889.8	3302.8	4136.5	5460.0	6299.6	5153.4	3935.5	3218.2	2835.6	2784.2
72.5°	1523.1	1616.3	1969.2	2839.2	4431.6	5423.9	4225.5	2871.8	2075.5	1696.5	1628.6
75°	556.2	567.7	764.4	1259.1	2578.2	3719.3	2677.2	1369.7	787.5	608.2	577.1
77.5°	229.9	229.3	251.6	380.4	936.5	1904.9	1045.0	402.1	251.0	232.1	229.3
80°	136.0	136.0	149.7	158.4	246.6	574.9	275.5	179.4	150.5	137.4	139.6
82.5°	60.7	64.3	94.7	99.8	119.3	157.7	133.0	114.3	98.3	68.0	61.5
85°	33.3	28.9	49.9	52.1	57.1	58.6	62.9	62.2	57.1	33.3	34.0
87.5°	6.5	8.0	14.5	10.8	12.3	10.8	14.5	20.3	20.9	11.6	9.4
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)