

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: P451814

Luminaire Tested: **GALN-SA2D-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451814
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-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 13645 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

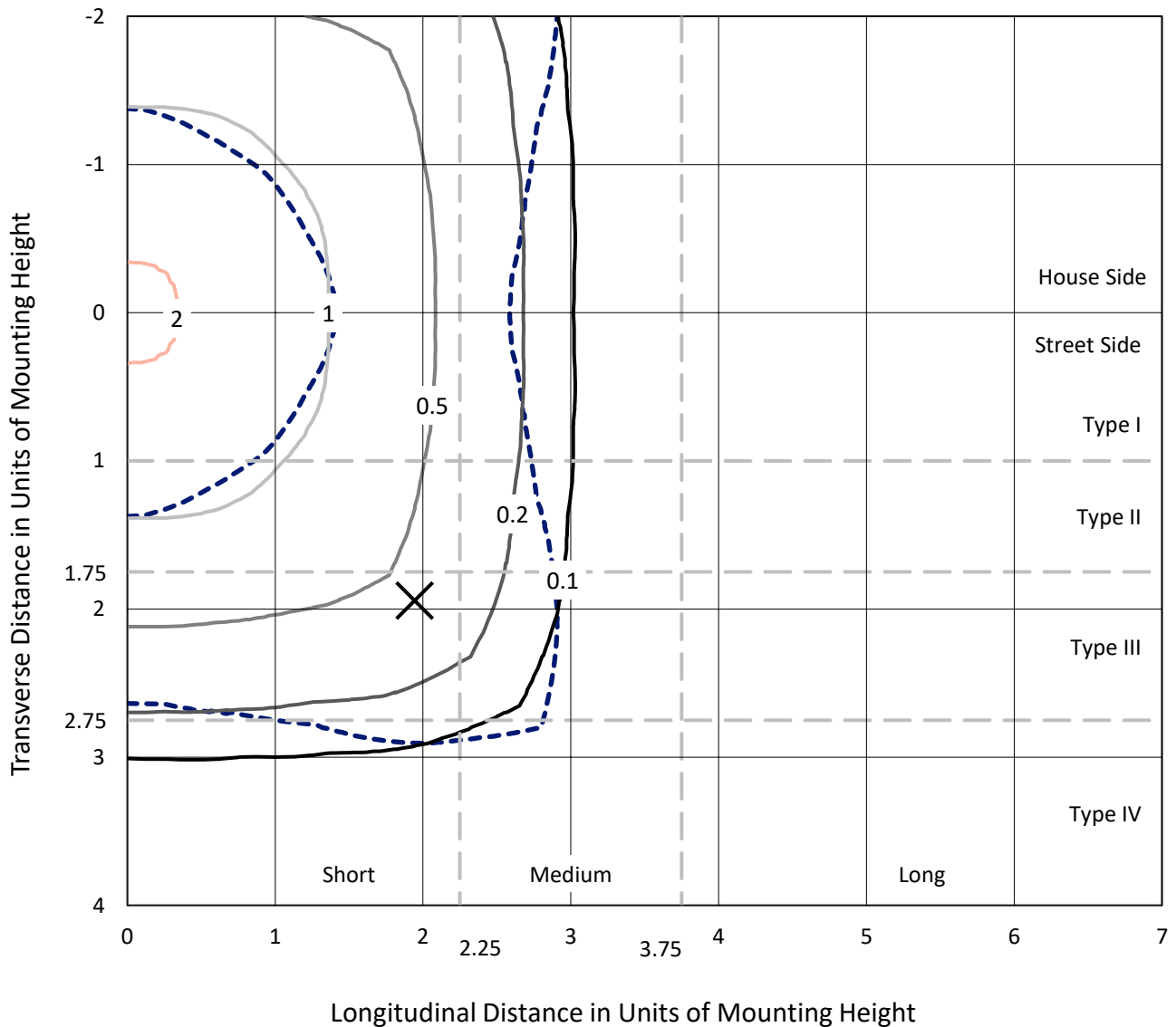
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

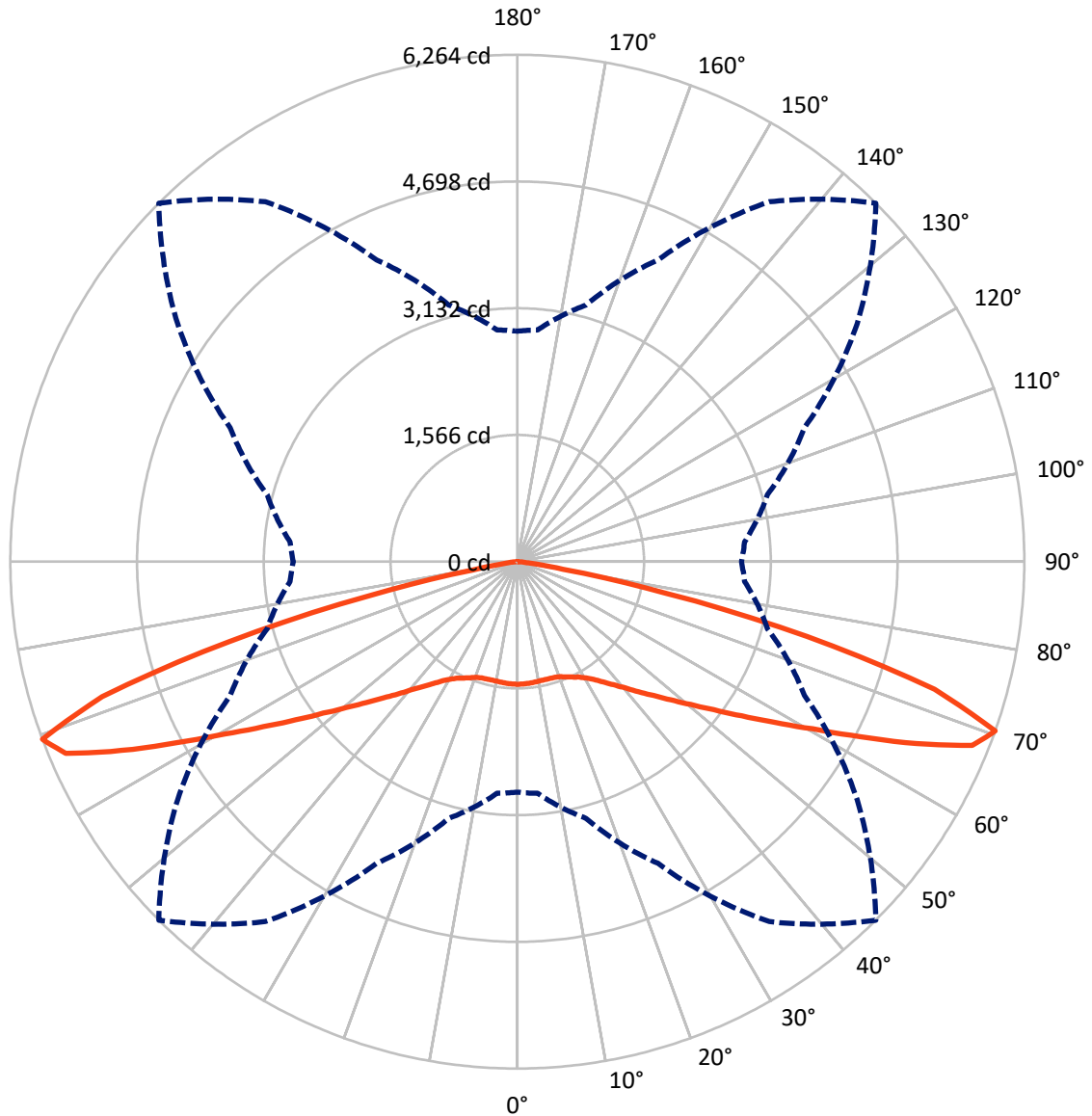
× Max cd
 - - - 1/2 Max cd



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	6822.5	0.0	6822.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6822.5	0.0	6822.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13645.0	0.0	13645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.1
10°-20°	421.6	3.1
20°-30°	721.1	5.3
30°-40°	1144.6	8.4
40°-50°	1846.5	13.5
50°-60°	3004.3	22.0
60°-70°	4355.2	31.9
70°-80°	1931.8	14.2
80°-90°	76.2	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°	13645.0	100.0
0°-180°	13645.0	100.0

Coefficient of Utilization



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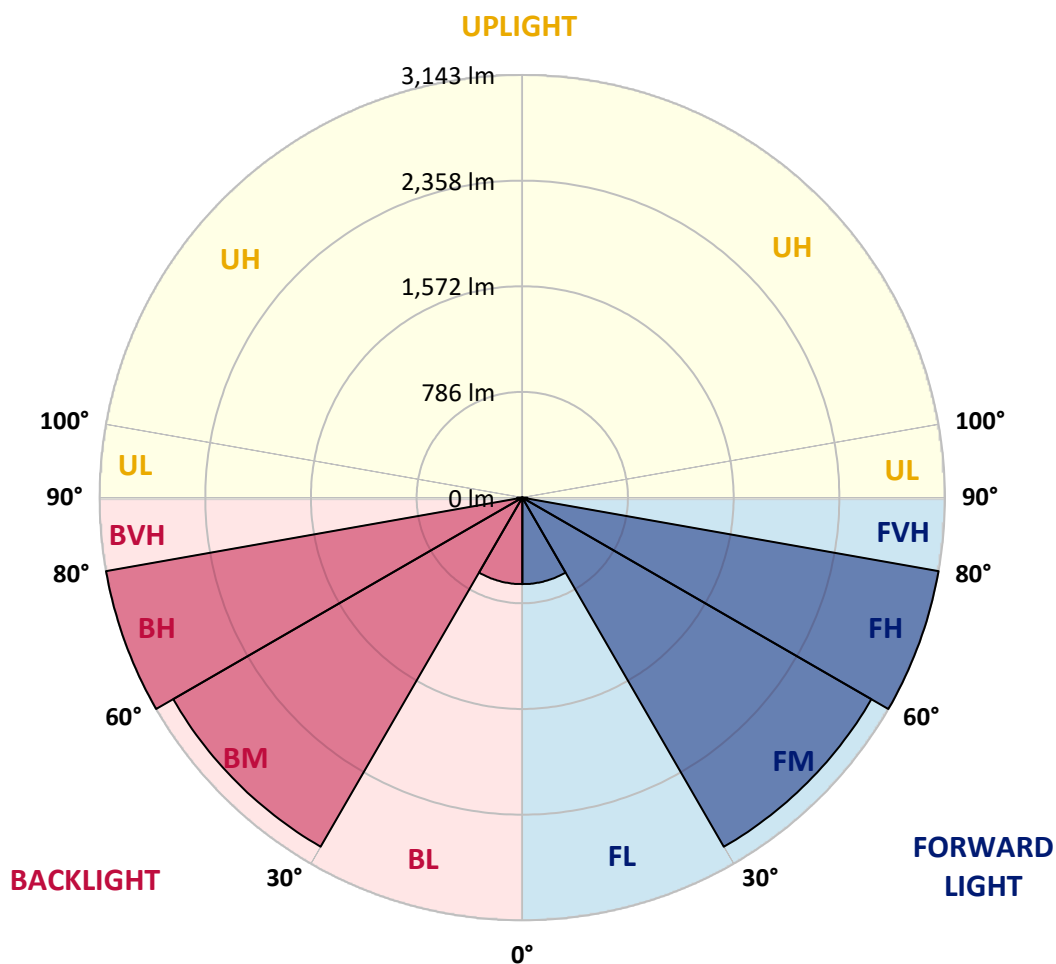
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.2	4.7			
FM (30°-60°)	2997.7	22.0			
FH (60°-80°)	3143.5	23.0			G2/5000
FVH (80°-90°)	38.1	0.3			G1/100
BL (0°-30°)	643.2	4.7	B2/1000		
BM (30°-60°)	2997.7	22.0	B3/5000		
BH (60°-80°)	3143.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	38.1	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°	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2
2.5°	1515.2	1516.7	1514.5	1513.1	1512.3	1512.3	1511.6	1512.3	1516.7	1517.4	1515.2
5°	1510.9	1512.3	1511.6	1510.2	1509.5	1509.5	1508.7	1508.0	1511.6	1513.1	1512.3
7.5°	1505.1	1505.9	1505.1	1504.4	1505.1	1504.4	1502.3	1500.8	1503.7	1503.7	1503.0
10°	1495.1	1496.5	1495.8	1496.5	1498.0	1498.0	1495.1	1492.2	1492.9	1491.5	1491.5
12.5°	1482.9	1485.0	1485.7	1488.6	1492.2	1496.5	1490.0	1483.6	1482.1	1481.4	1480.7
15°	1474.9	1477.1	1480.0	1482.9	1489.3	1498.7	1489.3	1479.3	1476.4	1473.5	1472.1
17.5°	1472.8	1475.7	1480.0	1484.3	1492.9	1502.3	1494.4	1484.3	1477.1	1472.8	1471.3
20°	1478.5	1480.7	1487.2	1495.1	1507.3	1516.7	1508.7	1498.0	1487.2	1480.7	1478.5
22.5°	1490.0	1493.6	1501.5	1515.9	1533.2	1546.9	1536.1	1518.1	1500.8	1492.2	1489.3
25°	1515.2	1518.1	1527.4	1546.9	1567.0	1579.9	1568.4	1547.6	1523.8	1512.3	1508.7
27.5°	1553.3	1557.6	1567.7	1590.7	1607.3	1614.5	1606.5	1592.2	1574.9	1562.7	1559.8
30°	1607.3	1612.3	1627.4	1651.8	1662.6	1666.6	1663.4	1654.0	1641.8	1628.8	1626.0
32.5°	1679.9	1682.8	1700.0	1723.0	1733.1	1734.5	1730.2	1725.9	1705.8	1684.2	1682.8
35°	1761.2	1766.2	1787.0	1814.4	1823.7	1824.4	1815.8	1809.3	1785.6	1768.3	1768.3
37.5°	1869.0	1871.2	1891.3	1922.2	1932.3	1929.4	1925.1	1919.4	1894.2	1871.9	1872.6
40°	1995.6	1999.9	2017.2	2053.1	2053.1	2049.5	2052.4	2048.1	2022.9	2001.3	2002.1
42.5°	2145.9	2148.0	2168.9	2207.0	2204.1	2197.0	2199.8	2194.1	2178.3	2153.8	2145.2
45°	2306.3	2314.9	2350.8	2387.5	2381.8	2358.8	2370.3	2368.8	2354.4	2317.8	2319.9
47.5°	2499.7	2514.1	2548.6	2592.5	2586.0	2550.0	2563.0	2571.6	2551.5	2511.2	2504.0
50°	2717.6	2727.0	2778.0	2819.0	2813.2	2775.1	2804.6	2806.1	2755.7	2698.9	2698.9
52.5°	2949.9	2959.2	3028.3	3092.3	3095.9	3040.5	3064.2	3062.8	2980.8	2906.0	2891.6
55°	3210.2	3214.5	3303.7	3397.9	3418.0	3364.1	3367.0	3338.2	3231.8	3144.8	3136.9
57.5°	3479.2	3495.0	3593.5	3715.8	3775.4	3742.4	3727.3	3650.3	3547.5	3447.5	3442.5
60°	3776.9	3777.6	3905.6	4050.2	4171.0	4193.3	4131.4	4028.6	3895.5	3763.2	3757.5
62.5°	3983.3	4014.2	4176.0	4420.5	4637.0	4762.1	4598.9	4383.1	4121.4	3907.8	3886.2
65°	4025.7	4046.6	4293.2	4707.4	5149.7	5419.4	5041.8	4583.0	4136.5	3851.7	3837.3
67.5°	3682.7	3705.0	4037.2	4672.9	5509.3	6062.3	5329.5	4486.7	3880.4	3528.1	3500.0
70°	2848.5	2873.7	3284.3	4113.4	5429.5	6264.4	5124.5	3913.5	3200.1	2819.7	2768.7
72.5°	1514.5	1607.3	1958.2	2823.3	4406.8	5393.5	4201.9	2855.7	2063.9	1687.1	1619.5
75°	553.0	564.5	760.1	1252.0	2563.7	3698.5	2662.2	1362.0	783.1	604.8	573.9
77.5°	228.7	228.0	250.3	378.3	931.3	1894.2	1039.1	399.8	249.5	230.8	228.0
80°	135.2	135.2	148.9	157.5	245.2	571.7	274.0	178.3	149.6	136.6	138.8
82.5°	60.4	64.0	94.2	99.2	118.7	156.8	132.3	113.6	97.8	67.6	61.1
85°	33.1	28.8	49.6	51.8	56.8	58.2	62.6	61.8	56.8	33.1	33.8
87.5°	6.5	7.9	14.4	10.8	12.2	10.8	14.4	20.1	20.9	11.5	9.3
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)