

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: P454049

Luminaire Tested: **GALN-SA5A-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17620 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

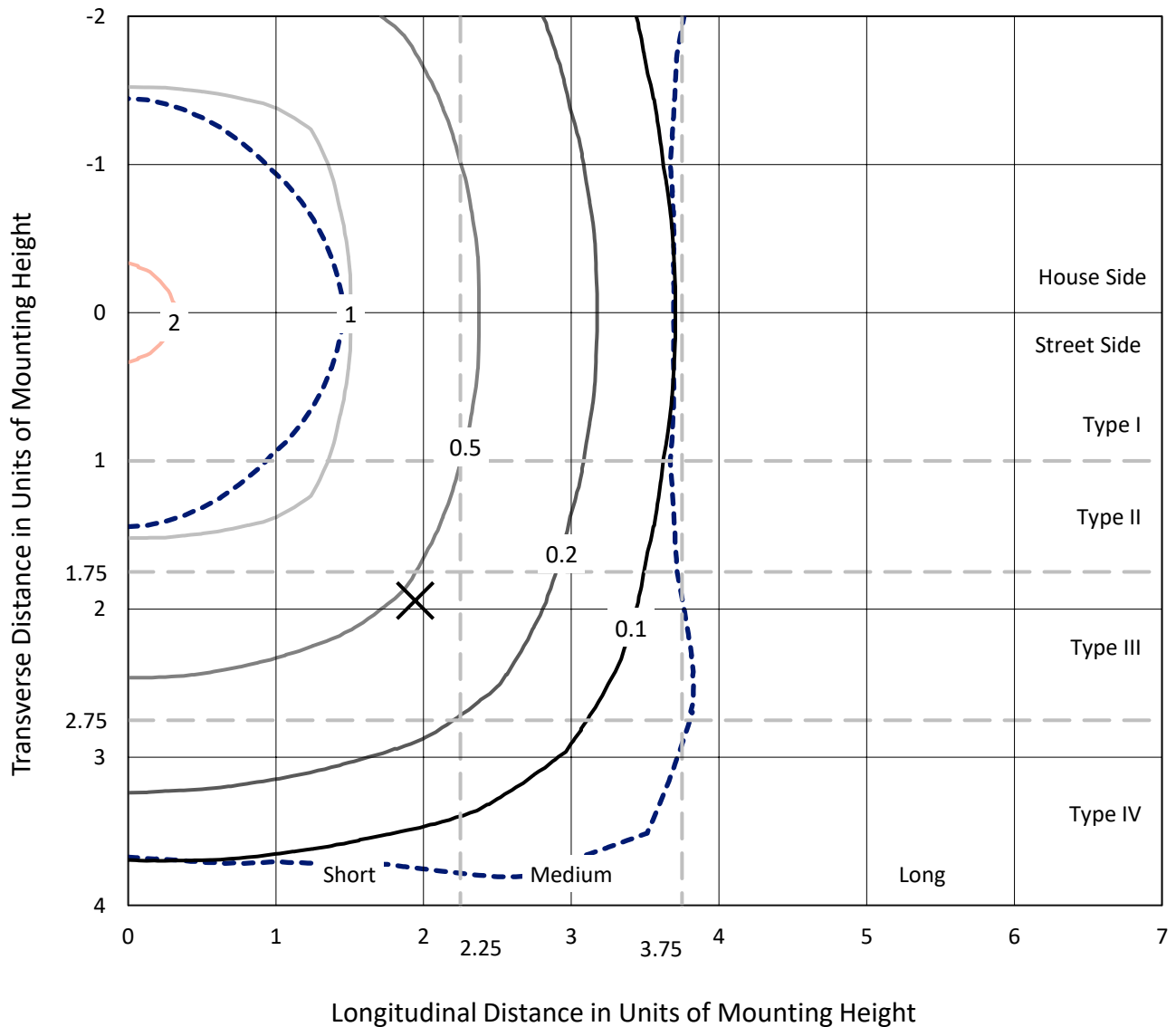
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

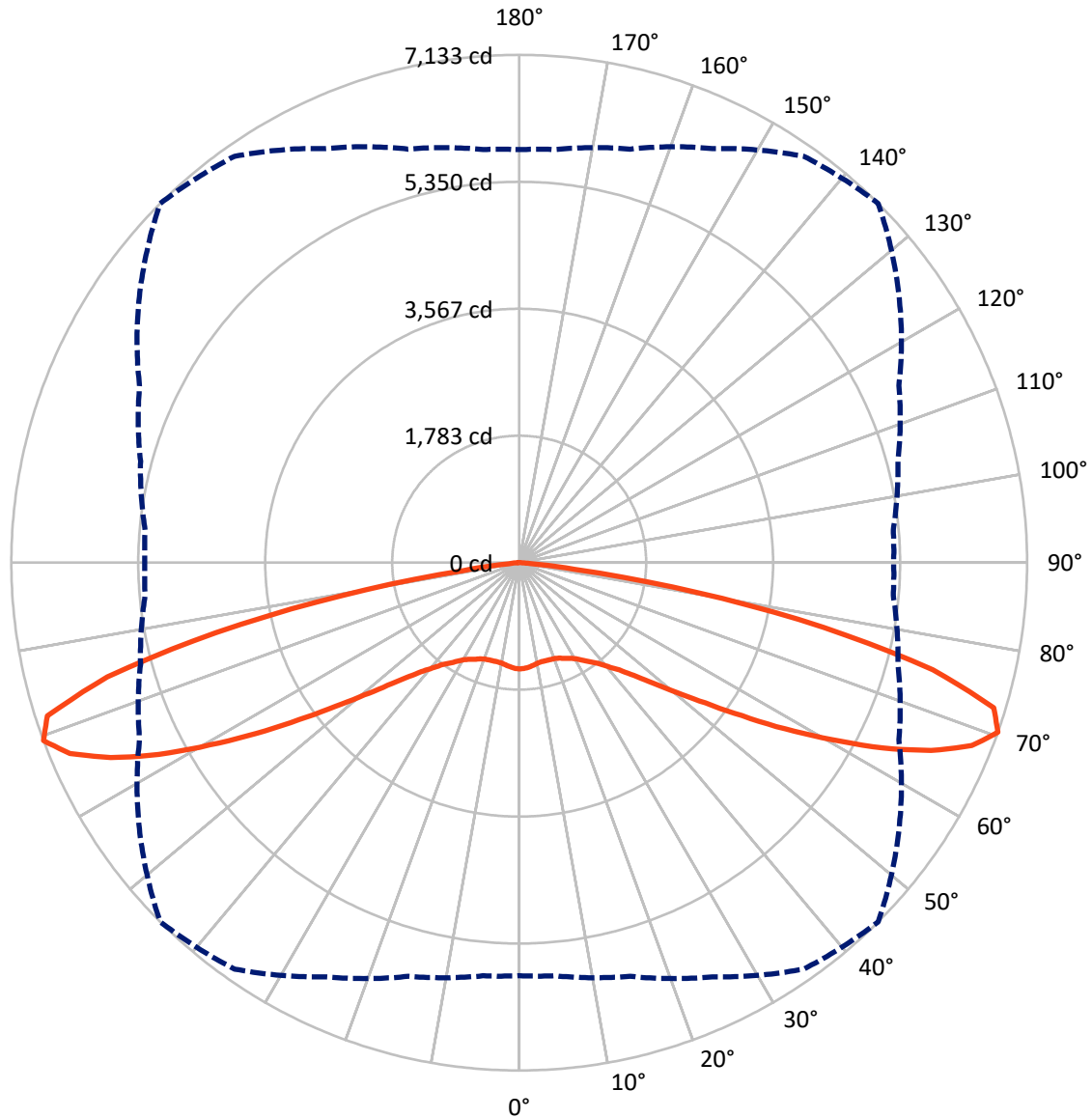
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
<b>House Side</b>	Lumens	8810.0	0.0	8810.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8810.0	0.0	8810.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17620.0	0.0	17620.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	0.8
10°-20°	408.4	2.3
20°-30°	695.8	3.9
30°-40°	1078.5	6.1
40°-50°	1815.3	10.3
50°-60°	3302.9	18.7
60°-70°	5591.8	31.7
70°-80°	4328.3	24.6
80°-90°	259.3	1.5
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°	17620.0	100.0
0°-180°	17620.0	100.0

**Coefficient of Utilization**



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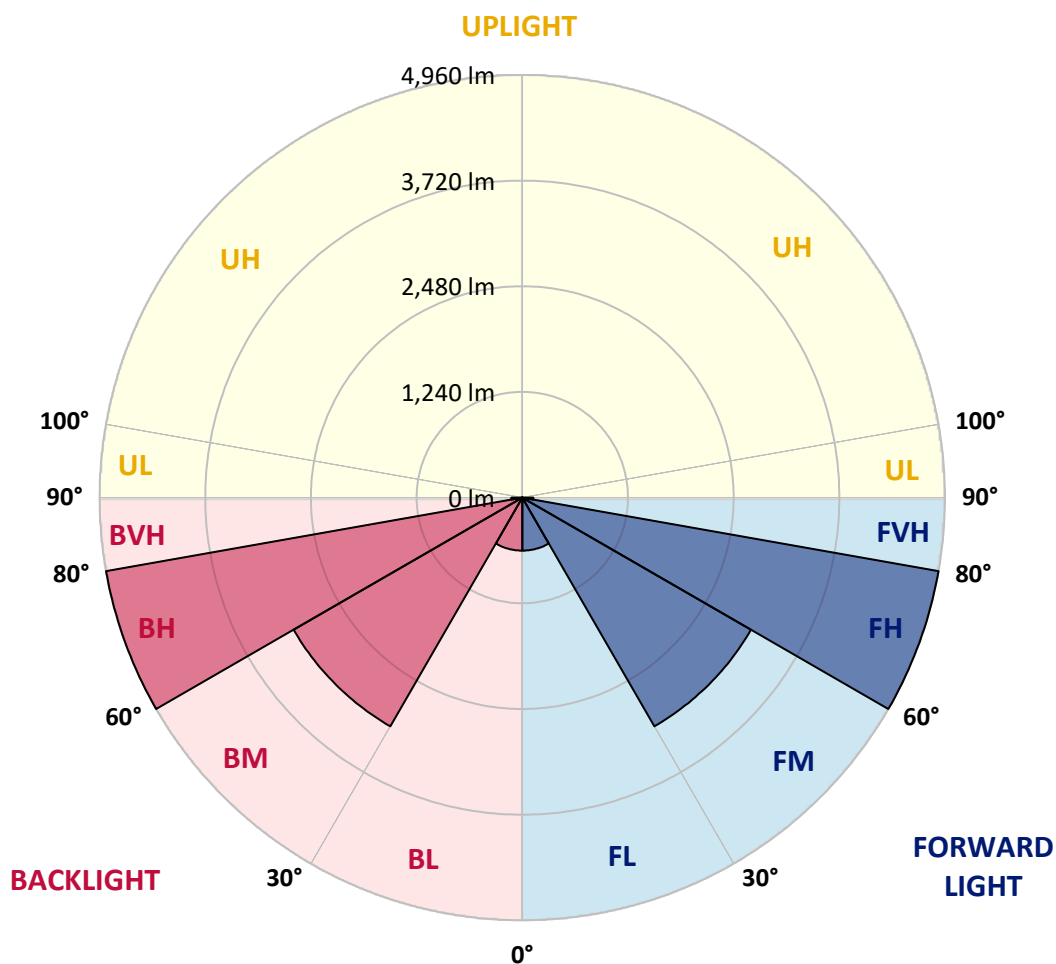
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.9	3.5			
FM (30°-60°)	3098.4	17.6			
FH (60°-80°)	4960.0	28.1			G2/5000
FVH (80°-90°)	129.7	0.7			G2/225
BL (0°-30°)	621.9	3.5	B2/1000		
BM (30°-60°)	3098.4	17.6	B3/5000		
BH (60°-80°)	4960.0	28.1	B4/5000		G2/5000
BVH (80°-90°)	129.7	0.7			G2/225
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°	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7	1491.7
2.5°	1488.0	1489.0	1489.0	1487.1	1486.2	1486.2	1485.2	1485.2	1488.0	1489.0	1489.9
5°	1475.0	1475.0	1475.0	1474.1	1472.2	1472.2	1470.3	1470.3	1471.3	1474.1	1472.2
7.5°	1457.3	1459.2	1459.2	1455.5	1452.7	1452.7	1451.7	1452.7	1453.6	1456.4	1455.5
10°	1451.7	1452.7	1448.0	1441.5	1436.8	1434.1	1435.0	1436.8	1441.5	1443.4	1444.3
12.5°	1455.5	1455.5	1447.1	1437.8	1429.4	1425.7	1424.7	1431.3	1439.6	1445.2	1447.1
15°	1460.1	1458.2	1448.0	1435.9	1427.5	1426.6	1425.7	1430.3	1442.4	1453.6	1454.5
17.5°	1462.9	1462.0	1448.9	1434.1	1429.4	1429.4	1428.5	1432.2	1445.2	1459.2	1460.1
20°	1472.2	1469.4	1454.5	1438.7	1435.0	1436.8	1434.1	1438.7	1452.7	1469.4	1473.1
22.5°	1490.8	1488.0	1473.1	1457.3	1455.5	1455.5	1454.5	1459.2	1474.1	1491.7	1494.5
25°	1513.2	1510.4	1496.4	1485.2	1487.1	1490.8	1489.0	1489.9	1502.0	1516.9	1521.5
27.5°	1542.9	1538.3	1526.2	1516.9	1522.5	1522.5	1522.5	1521.5	1529.0	1542.9	1547.6
30°	1579.2	1577.4	1564.3	1563.4	1568.1	1563.4	1563.4	1564.3	1565.3	1578.3	1582.9
32.5°	1626.7	1623.0	1616.4	1614.6	1627.6	1631.3	1618.3	1606.2	1612.7	1625.8	1628.5
35°	1704.9	1699.3	1690.0	1679.7	1690.0	1707.6	1679.7	1670.4	1687.2	1704.9	1706.7
37.5°	1810.9	1808.2	1793.3	1774.7	1773.7	1792.3	1763.5	1762.6	1794.2	1815.6	1818.4
40°	1944.0	1946.8	1928.2	1910.5	1901.2	1916.1	1893.8	1902.1	1932.9	1957.0	1955.2
42.5°	2131.1	2120.8	2092.0	2075.2	2065.0	2059.4	2053.8	2066.9	2101.3	2127.3	2147.8
45°	2349.8	2346.0	2309.7	2289.3	2266.9	2258.6	2256.7	2280.0	2321.8	2353.5	2356.3
47.5°	2597.3	2588.9	2565.7	2544.3	2535.9	2525.6	2516.3	2534.0	2575.9	2598.2	2604.7
50°	2852.3	2854.1	2854.1	2850.4	2858.8	2860.7	2835.5	2842.0	2865.3	2863.5	2861.6
52.5°	3143.6	3153.8	3202.2	3206.8	3246.9	3273.8	3228.2	3201.3	3192.9	3142.6	3146.4
55°	3486.0	3495.3	3567.9	3640.5	3748.4	3794.0	3698.2	3614.4	3554.9	3478.6	3482.3
57.5°	3913.2	3917.8	3986.7	4126.3	4297.5	4404.5	4236.1	4070.4	3949.5	3876.9	3848.0
60°	4372.9	4377.5	4478.0	4648.3	4914.5	5044.8	4836.3	4565.5	4412.9	4302.2	4309.6
62.5°	4924.7	4943.3	5033.6	5268.1	5591.0	5737.1	5460.7	5098.7	4892.2	4754.4	4760.0
65°	5515.7	5547.3	5645.9	5903.7	6201.5	6358.8	6020.0	5602.2	5345.4	5176.9	5194.6
67.5°	5899.1	5927.0	6069.4	6354.1	6725.4	6855.7	6418.3	5931.6	5610.6	5409.6	5372.3
70°	5801.3	5824.6	6014.5	6418.3	6968.3	7133.0	6513.3	5883.2	5505.4	5273.7	5258.8
72.5°	5121.1	5072.7	5350.0	5929.8	6691.0	6967.4	6214.5	5373.3	4897.7	4659.5	4631.6
75°	3393.9	3499.0	3908.5	4591.6	5660.8	6003.3	5304.4	4314.3	3715.9	3517.7	3487.0
77.5°	1134.4	1215.4	1579.2	2602.9	3859.2	4373.8	3864.8	2821.6	1996.1	1608.1	1615.5
80°	300.6	296.9	384.3	715.6	1667.6	2533.1	1941.2	955.7	523.0	378.8	359.2
82.5°	107.9	121.0	155.4	198.2	442.0	787.3	555.6	268.0	196.4	145.2	140.5
85°	47.5	46.5	67.0	79.1	110.7	147.0	130.3	113.5	99.6	66.1	61.4
87.5°	10.2	10.2	15.8	12.1	19.5	19.5	24.2	28.8	29.8	19.5	15.8
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)