

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: P458863

Luminaire Tested: **GALN-SA4A-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458863
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-SA4A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 17638 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

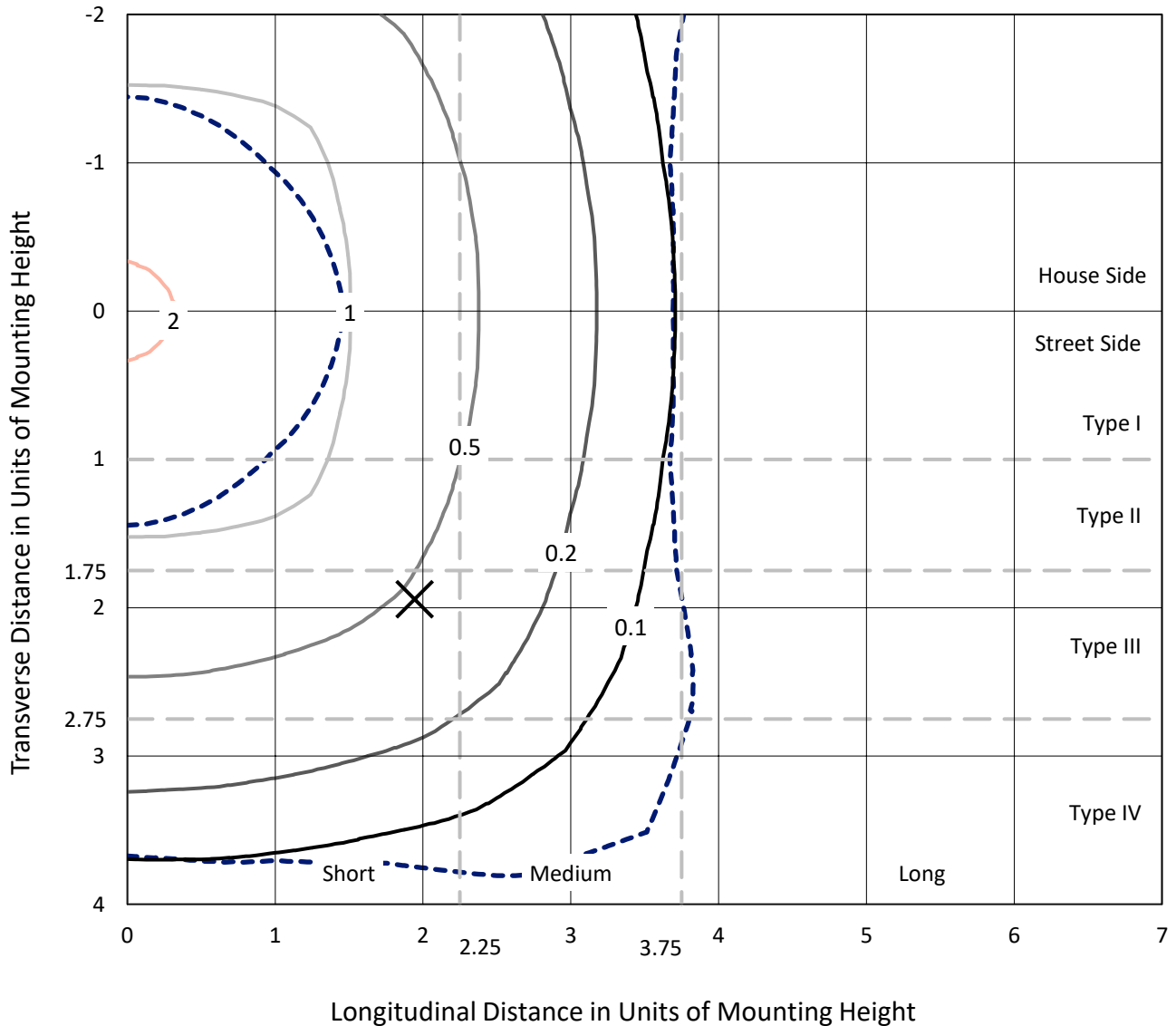
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

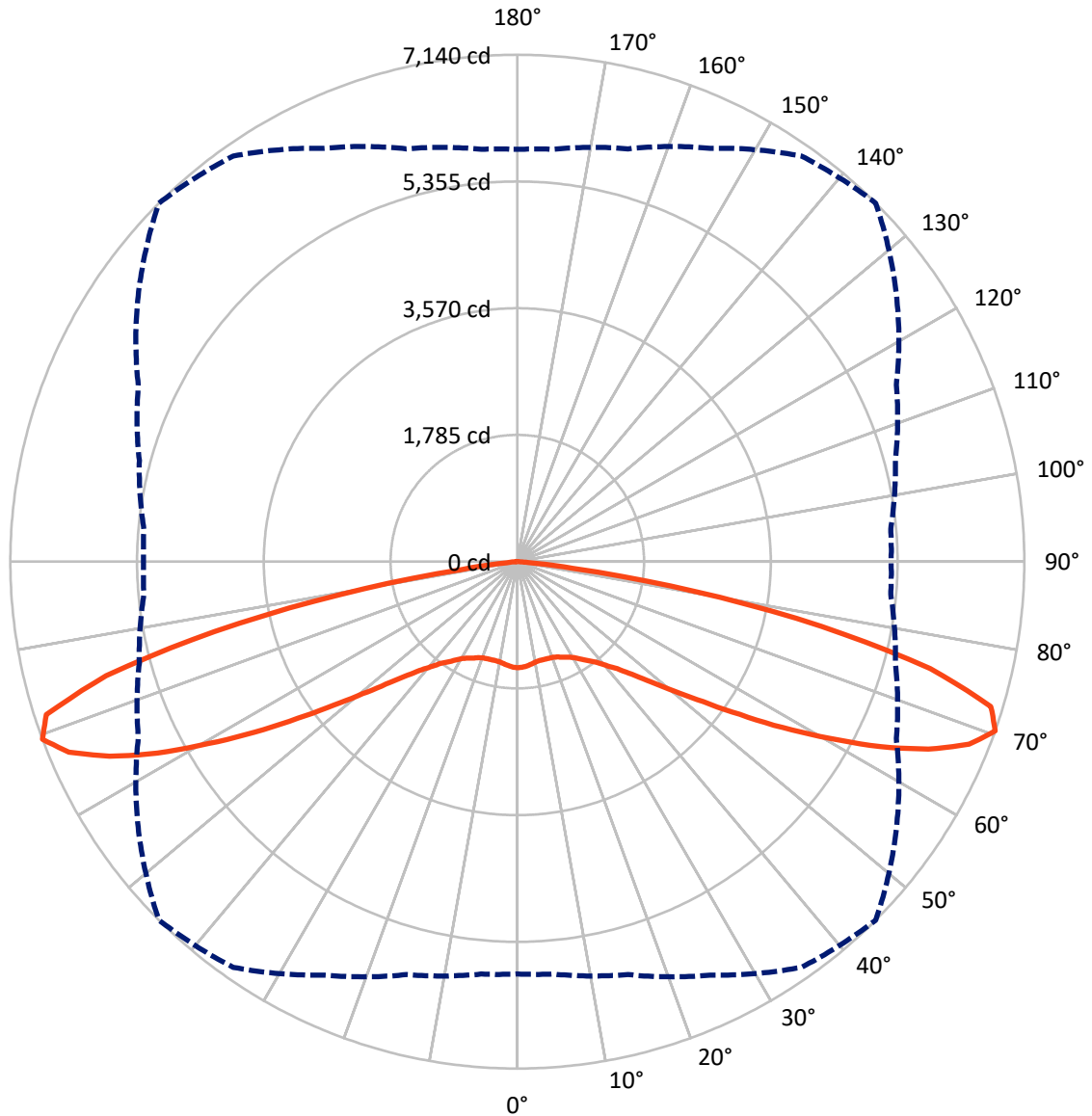
× Max cd
 - - - 1/2 Max cd



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	8819.0	0.0	8819.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8819.0	0.0	8819.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17638.0	0.0	17638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	0.8
10°-20°	408.8	2.3
20°-30°	696.5	3.9
30°-40°	1079.6	6.1
40°-50°	1817.2	10.3
50°-60°	3306.3	18.7
60°-70°	5597.5	31.7
70°-80°	4332.7	24.6
80°-90°	259.6	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°	17638.0	100.0
0°-180°	17638.0	100.0

Coefficient of Utilization



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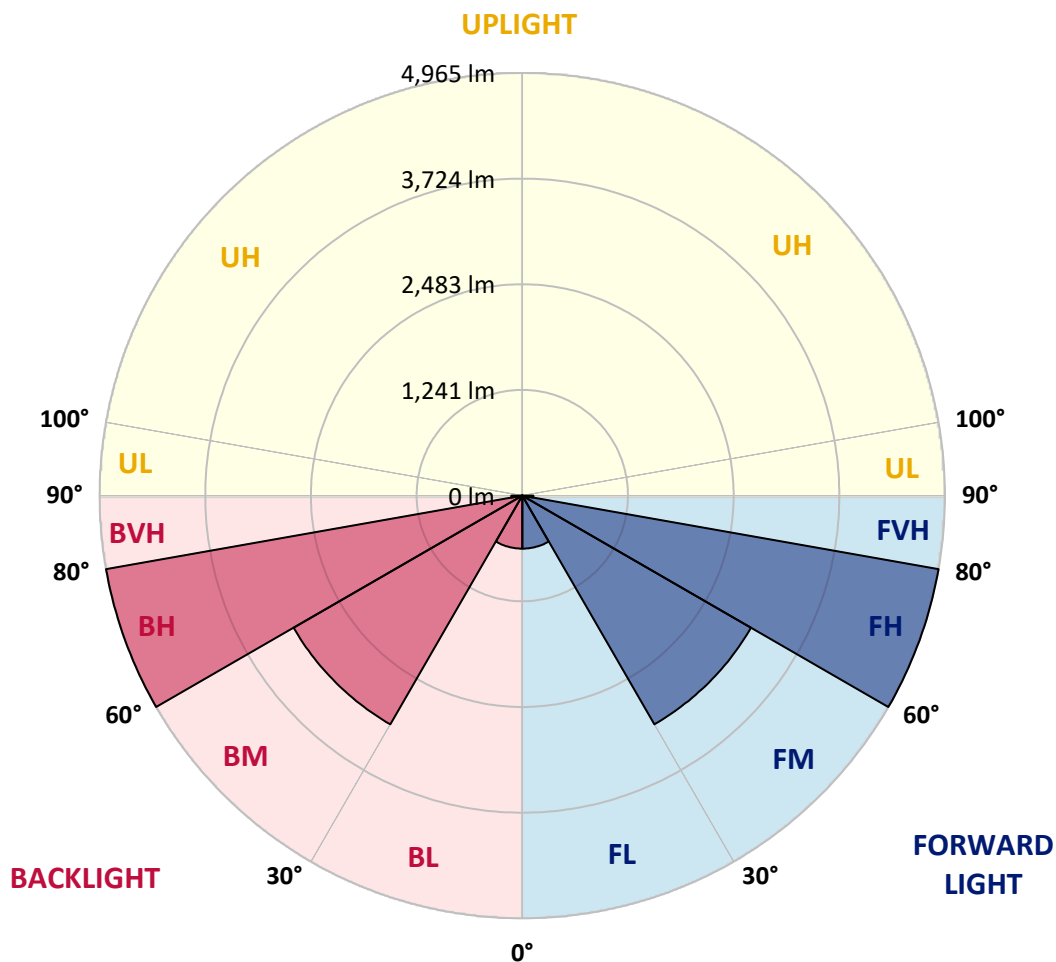
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.5	3.5			
FM (30°-60°)	3101.6	17.6			
FH (60°-80°)	4965.1	28.1			G2/5000
FVH (80°-90°)	129.8	0.7			G2/225
BL (0°-30°)	622.5	3.5	B2/1000		
BM (30°-60°)	3101.6	17.6	B3/5000		
BH (60°-80°)	4965.1	28.1	B4/5000		G2/5000
BVH (80°-90°)	129.8	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°	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3
2.5°	1489.5	1490.5	1490.5	1488.6	1487.7	1487.7	1486.8	1486.8	1489.5	1490.5	1491.4
5°	1476.5	1476.5	1476.5	1475.6	1473.7	1473.7	1471.8	1471.8	1472.8	1475.6	1473.7
7.5°	1458.8	1460.7	1460.7	1456.9	1454.1	1454.1	1453.2	1454.1	1455.1	1457.9	1456.9
10°	1453.2	1454.1	1449.5	1443.0	1438.3	1435.5	1436.4	1438.3	1443.0	1444.8	1445.8
12.5°	1456.9	1456.9	1448.6	1439.2	1430.9	1427.1	1426.2	1432.7	1441.1	1446.7	1448.6
15°	1461.6	1459.7	1449.5	1437.4	1429.0	1428.1	1427.1	1431.8	1443.9	1455.1	1456.0
17.5°	1464.4	1463.5	1450.4	1435.5	1430.9	1430.9	1429.9	1433.7	1446.7	1460.7	1461.6
20°	1473.7	1470.9	1456.0	1440.2	1436.4	1438.3	1435.5	1440.2	1454.1	1470.9	1474.6
22.5°	1492.3	1489.5	1474.6	1458.8	1456.9	1456.9	1456.0	1460.7	1475.6	1493.3	1496.1
25°	1514.7	1511.9	1497.9	1486.8	1488.6	1492.3	1490.5	1491.4	1503.5	1518.4	1523.1
27.5°	1544.5	1539.9	1527.7	1518.4	1524.0	1524.0	1524.0	1523.1	1530.5	1544.5	1549.2
30°	1580.8	1579.0	1565.9	1565.0	1569.7	1565.0	1565.0	1565.9	1566.9	1579.9	1584.6
32.5°	1628.3	1624.6	1618.1	1616.2	1629.3	1633.0	1620.0	1607.9	1614.4	1627.4	1630.2
35°	1706.6	1701.0	1691.7	1681.4	1691.7	1709.4	1681.4	1672.1	1688.9	1706.6	1708.5
37.5°	1812.8	1810.0	1795.1	1776.5	1775.5	1794.2	1765.3	1764.4	1796.0	1817.5	1820.2
40°	1946.0	1948.8	1930.2	1912.5	1903.2	1918.1	1895.7	1904.1	1934.8	1959.0	1957.2
42.5°	2133.2	2123.0	2094.1	2077.4	2067.1	2061.5	2055.9	2069.0	2103.4	2129.5	2150.0
45°	2352.2	2348.4	2312.1	2291.6	2269.3	2260.9	2259.0	2282.3	2324.2	2355.9	2358.7
47.5°	2600.0	2591.6	2568.3	2546.9	2538.5	2528.2	2518.9	2536.6	2578.5	2600.9	2607.4
50°	2855.2	2857.1	2857.1	2853.3	2861.7	2863.6	2838.4	2844.9	2868.2	2866.4	2864.5
52.5°	3146.8	3157.0	3205.5	3210.1	3250.2	3277.2	3231.5	3204.5	3196.1	3145.8	3149.6
55°	3489.6	3498.9	3571.6	3644.2	3752.3	3797.9	3702.0	3618.1	3558.5	3482.1	3485.9
57.5°	3917.2	3921.8	3990.8	4130.5	4301.9	4409.0	4240.4	4074.6	3953.5	3880.8	3852.0
60°	4377.3	4382.0	4482.6	4653.1	4919.5	5049.9	4841.3	4570.2	4417.4	4306.6	4314.0
62.5°	4929.8	4948.4	5038.7	5273.5	5596.7	5743.0	5466.3	5104.0	4897.2	4759.3	4764.9
65°	5521.3	5553.0	5651.7	5909.7	6207.8	6365.3	6026.2	5607.9	5350.8	5182.2	5199.9
67.5°	5905.1	5933.0	6075.6	6360.6	6732.3	6862.7	6424.9	5937.7	5616.3	5415.1	5377.8
70°	5807.3	5830.6	6020.6	6424.9	6975.4	7140.3	6519.9	5889.3	5511.0	5279.1	5264.2
72.5°	5126.3	5077.9	5355.5	5935.8	6697.8	6974.5	6220.9	5378.8	4902.7	4664.3	4636.3
75°	3397.4	3502.6	3912.5	4596.3	5666.6	6009.4	5309.8	4318.7	3719.7	3521.3	3490.5
77.5°	1135.6	1216.6	1580.8	2605.5	3863.1	4378.3	3868.7	2824.5	1998.2	1609.7	1617.2
80°	300.9	297.2	384.7	716.4	1669.3	2535.7	1943.2	956.7	523.5	379.1	359.6
82.5°	108.1	121.1	155.6	198.4	442.5	788.1	556.1	268.3	196.6	145.3	140.7
85°	47.5	46.6	67.1	79.2	110.9	147.2	130.4	113.6	99.7	66.1	61.5
87.5°	10.2	10.2	15.8	12.1	19.6	19.6	24.2	28.9	29.8	19.6	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)