

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: P458745

Luminaire Tested: **GALN-SA3A-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458745
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-SA3A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13338 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

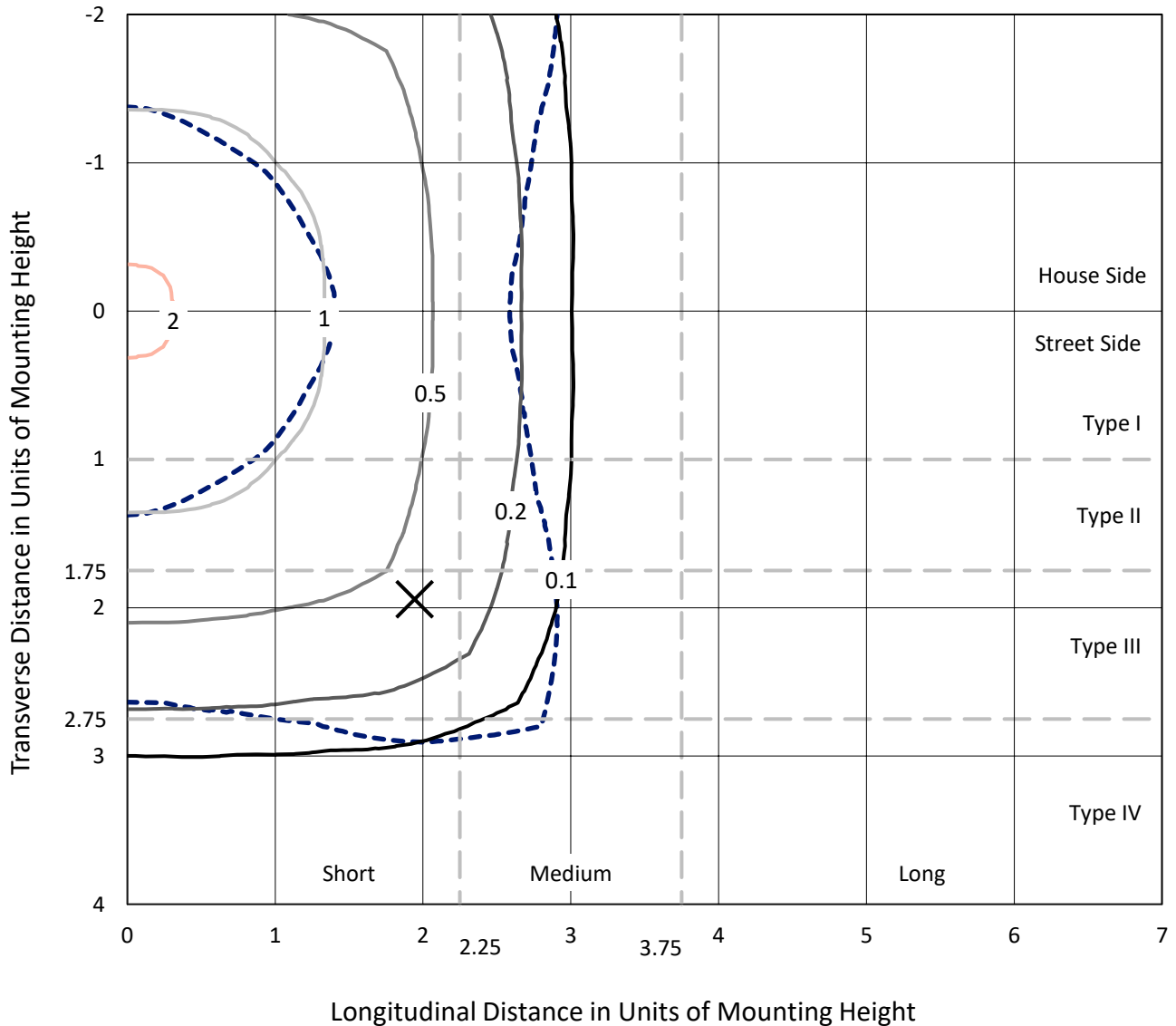
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458745
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Iso-Footcandle Lines of Horizontal Illumination

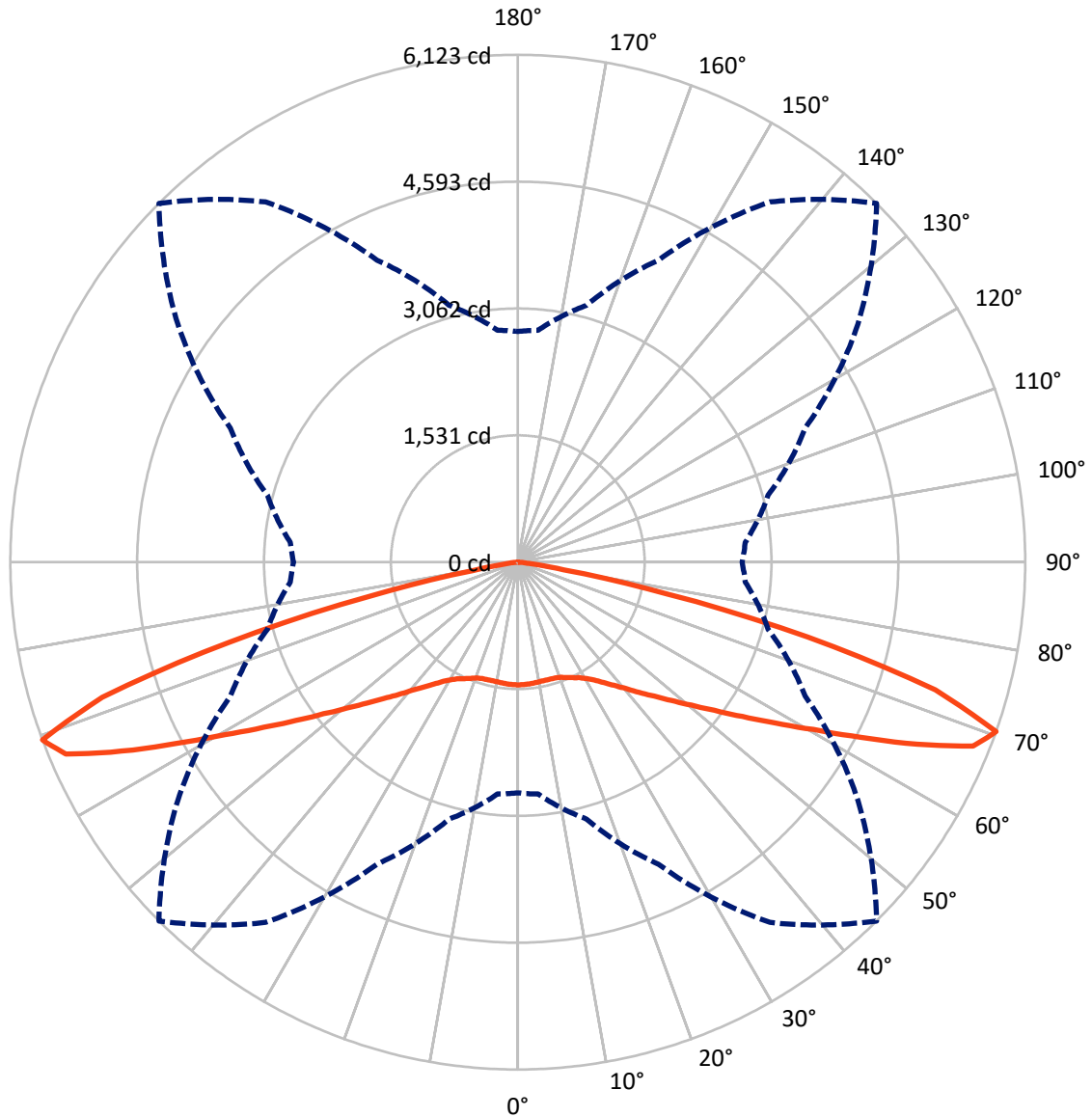
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458745
CATALOG NUMBER: GALN-SA3A-735-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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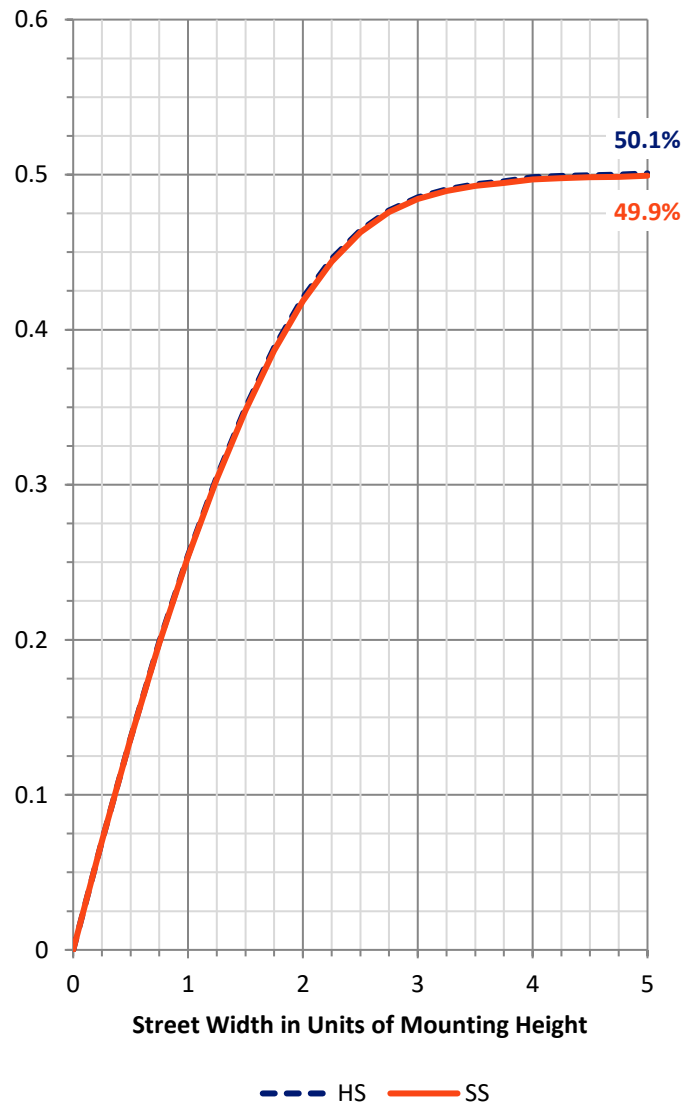
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6669.0	0.0	6669.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6669.0	0.0	6669.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13338.0	0.0	13338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.1
10°-20°	412.2	3.1
20°-30°	704.9	5.3
30°-40°	1118.8	8.4
40°-50°	1805.0	13.5
50°-60°	2936.7	22.0
60°-70°	4257.2	31.9
70°-80°	1888.3	14.2
80°-90°	74.5	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°	13338.0	100.0
0°-180°	13338.0	100.0



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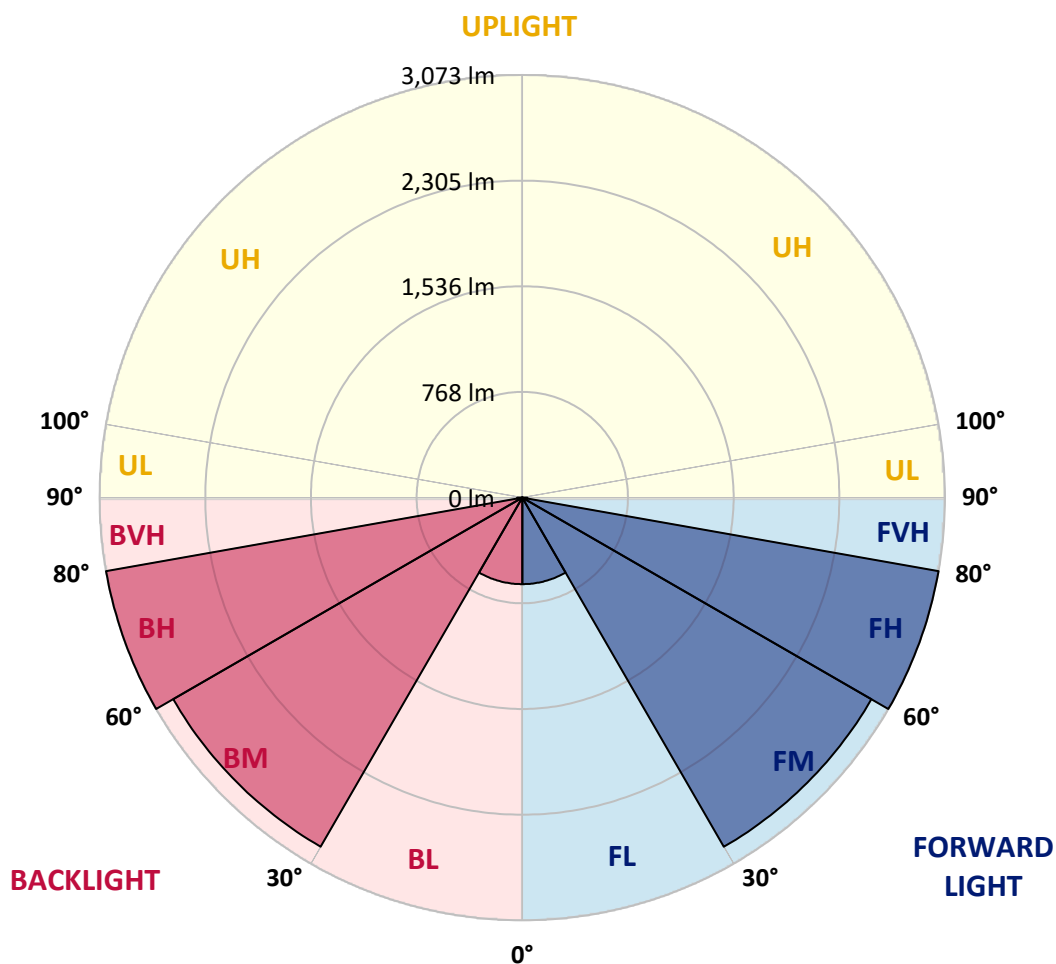
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.8	4.7			
FM	(30°-60°)	2930.3	22.0			
FH	(60°-80°)	3072.7	23.0			G2/5000
FVH	(80°-90°)	37.2	0.3			G1/100
BL	(0°-30°)	628.8	4.7	B2/1000		
BM	(30°-60°)	2930.3	22.0	B3/5000		
BH	(60°-80°)	3072.7	23.0	B4/5000		G2/5000
BVH	(80°-90°)	37.2	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°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1481.1	1482.5	1480.4	1479.0	1478.3	1478.3	1477.6	1478.3	1482.5	1483.2	1481.1
5°	1476.9	1478.3	1477.6	1476.2	1475.5	1475.5	1474.8	1474.1	1477.6	1479.0	1478.3
7.5°	1471.3	1472.0	1471.3	1470.6	1471.3	1470.6	1468.5	1467.1	1469.9	1469.9	1469.2
10°	1461.4	1462.8	1462.1	1462.8	1464.3	1464.3	1461.4	1458.6	1459.3	1457.9	1457.9
12.5°	1449.5	1451.6	1452.3	1455.1	1458.6	1462.8	1456.5	1450.2	1448.8	1448.1	1447.4
15°	1441.8	1443.9	1446.7	1449.5	1455.8	1465.0	1455.8	1446.0	1443.2	1440.4	1438.9
17.5°	1439.6	1442.5	1446.7	1450.9	1459.3	1468.5	1460.7	1450.9	1443.9	1439.6	1438.2
20°	1445.3	1447.4	1453.7	1461.4	1473.4	1482.5	1474.8	1464.3	1453.7	1447.4	1445.3
22.5°	1456.5	1460.0	1467.8	1481.8	1498.7	1512.1	1501.5	1483.9	1467.1	1458.6	1455.8
25°	1481.1	1483.9	1493.1	1512.1	1531.7	1544.4	1533.1	1512.8	1489.6	1478.3	1474.8
27.5°	1518.4	1522.6	1532.4	1554.9	1571.1	1578.1	1570.4	1556.3	1539.5	1527.5	1524.7
30°	1571.1	1576.0	1590.8	1614.7	1625.2	1629.4	1625.9	1616.8	1604.8	1592.2	1589.4
32.5°	1642.1	1644.9	1661.8	1684.3	1694.1	1695.5	1691.3	1687.1	1667.4	1646.3	1644.9
35°	1721.5	1726.5	1746.8	1773.6	1782.7	1783.4	1775.0	1768.6	1745.4	1728.6	1728.6
37.5°	1827.0	1829.1	1848.8	1879.0	1888.8	1886.0	1881.8	1876.2	1851.6	1829.8	1830.5
40°	1950.7	1954.9	1971.8	2006.9	2006.9	2003.4	2006.2	2002.0	1977.4	1956.3	1957.0
42.5°	2097.6	2099.7	2120.1	2157.4	2154.6	2147.5	2150.3	2144.7	2129.2	2105.3	2096.9
45°	2254.4	2262.8	2298.0	2333.8	2328.2	2305.7	2316.9	2315.5	2301.5	2265.6	2267.7
47.5°	2443.5	2457.5	2491.3	2534.1	2527.8	2492.7	2505.3	2513.8	2494.1	2454.7	2447.7
50°	2656.5	2665.6	2715.5	2755.6	2750.0	2712.7	2741.5	2742.9	2693.7	2638.2	2638.2
52.5°	2883.5	2892.7	2960.1	3022.7	3026.2	2972.1	2995.3	2993.9	2913.7	2840.6	2826.6
55°	3138.0	3142.2	3229.4	3321.5	3341.1	3288.4	3291.2	3263.1	3159.1	3074.0	3066.3
57.5°	3400.9	3416.4	3512.7	3632.2	3690.5	3658.2	3643.4	3568.2	3467.7	3370.0	3365.0
60°	3691.9	3692.6	3817.7	3959.0	4077.1	4098.9	4038.5	3937.9	3807.9	3678.6	3672.9
62.5°	3893.7	3923.9	4082.0	4321.1	4532.6	4655.0	4495.4	4284.5	4028.6	3819.8	3798.8
65°	3935.1	3955.5	4196.6	4601.5	5033.8	5297.5	4928.4	4479.9	4043.4	3765.0	3751.0
67.5°	3599.8	3621.6	3946.4	4567.8	5385.3	5925.9	5209.6	4385.7	3793.1	3448.7	3421.3
70°	2784.4	2809.0	3210.4	4020.9	5307.3	6123.4	5009.2	3825.5	3128.1	2756.3	2706.4
72.5°	1480.4	1571.1	1914.1	2759.8	4307.7	5272.1	4107.4	2791.4	2017.5	1649.1	1583.1
75°	540.6	551.8	743.0	1223.8	2506.0	3615.3	2602.3	1331.4	765.5	591.2	561.0
77.5°	223.5	222.8	244.6	369.8	910.3	1851.6	1015.8	390.8	243.9	225.6	222.8
80°	132.2	132.2	145.5	153.9	239.7	558.8	267.8	174.3	146.2	133.6	135.7
82.5°	59.0	62.6	92.1	97.0	116.0	153.2	129.3	111.1	95.6	66.1	59.8
85°	32.3	28.1	48.5	50.6	55.5	56.9	61.2	60.5	55.5	32.3	33.0
87.5°	6.3	7.7	14.1	10.5	12.0	10.5	14.1	19.7	20.4	11.2	9.1
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)