

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: P458776

Luminaire Tested: **GALN-SA3B-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458776
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-SA3B-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16561 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

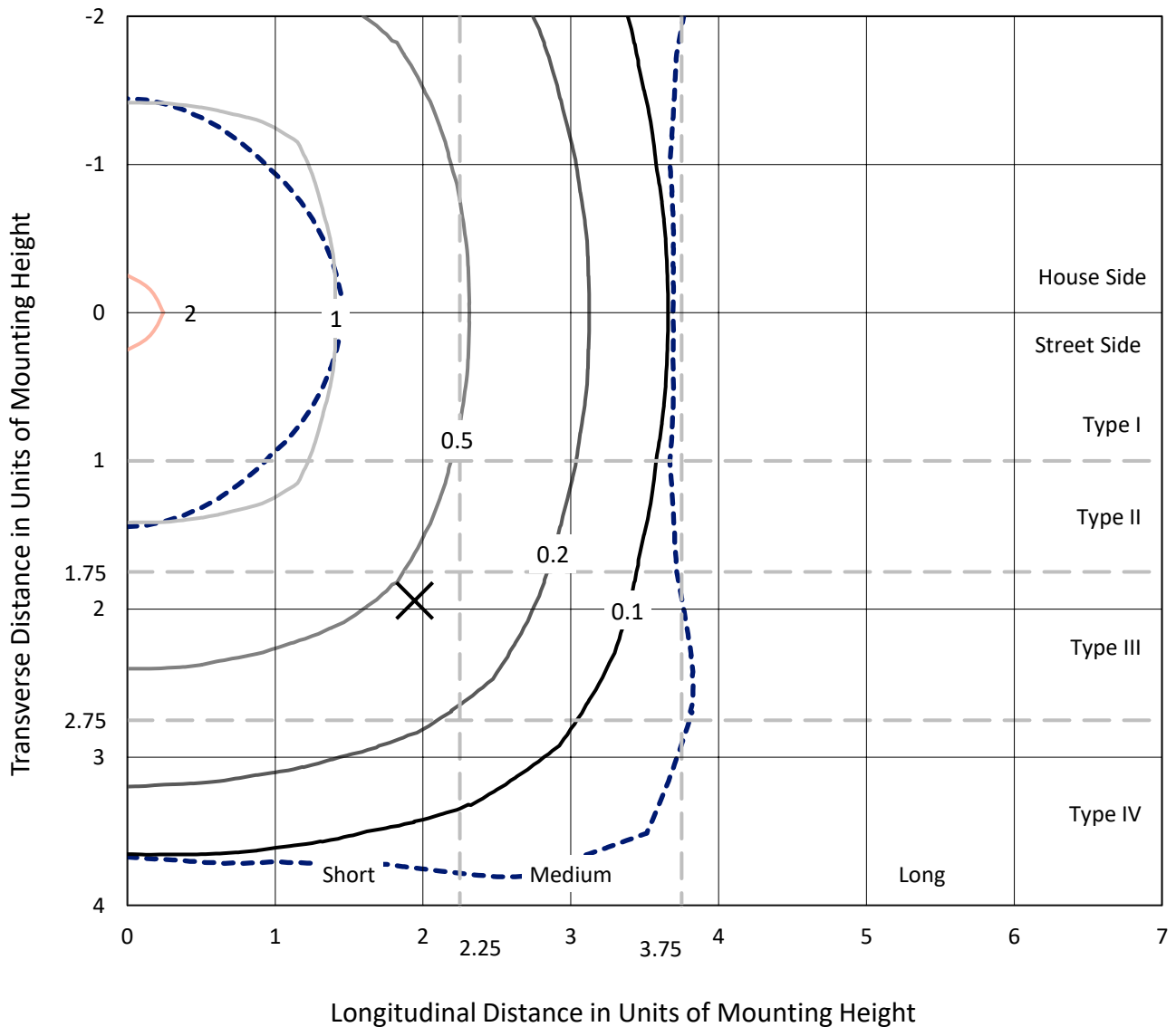
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

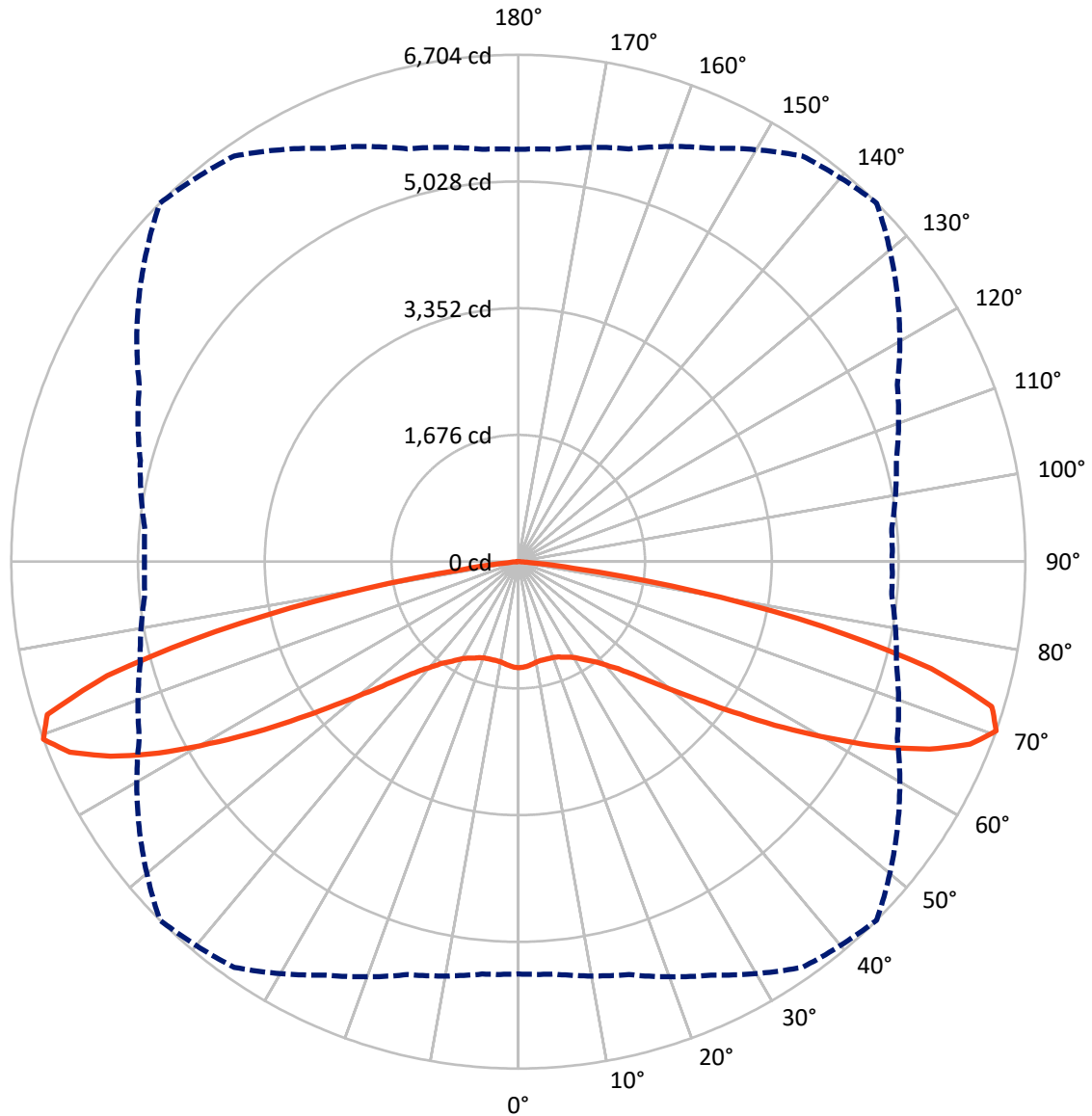
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	8280.5	0.0	8280.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8280.5	0.0	8280.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16561.0	0.0	16561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	0.8
10°-20°	383.9	2.3
20°-30°	654.0	3.9
30°-40°	1013.7	6.1
40°-50°	1706.2	10.3
50°-60°	3104.4	18.7
60°-70°	5255.7	31.7
70°-80°	4068.1	24.6
80°-90°	243.8	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°	16561.0	100.0
0°-180°	16561.0	100.0



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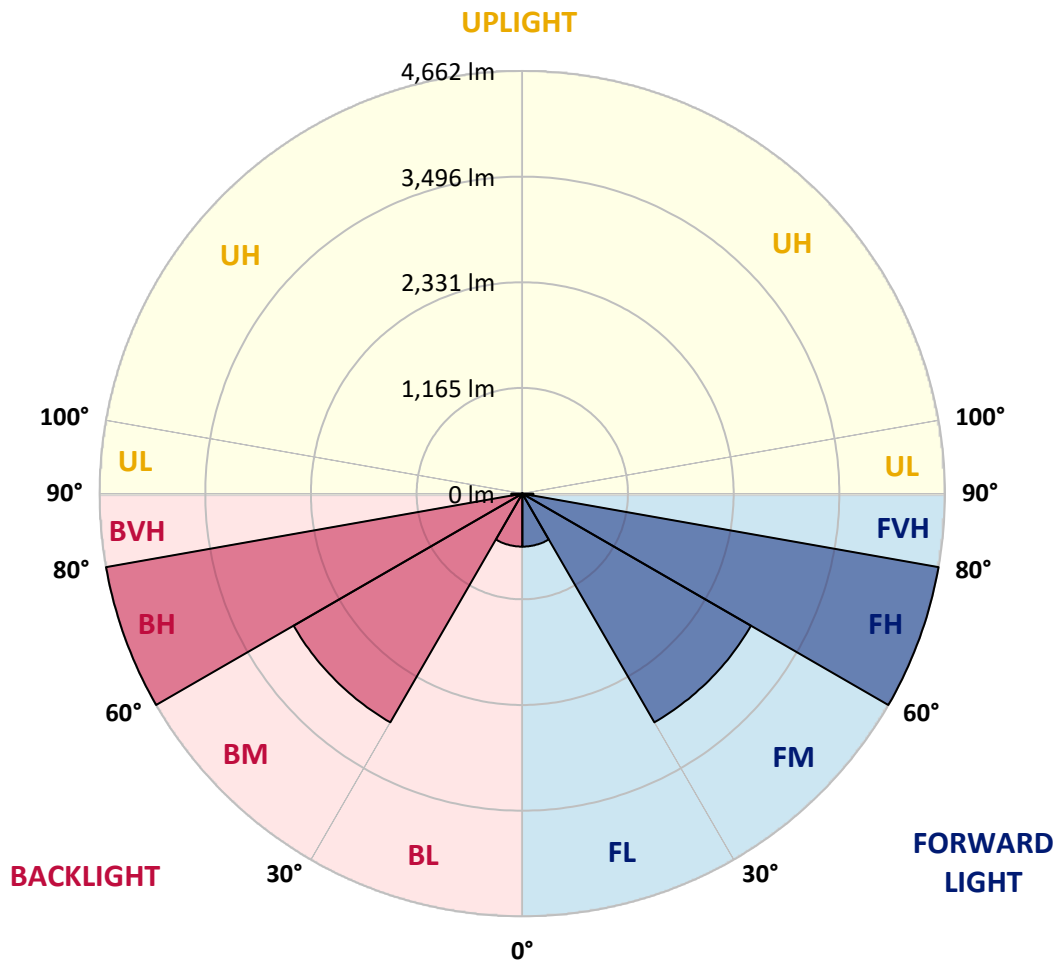
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.5	3.5			
FM (30°-60°)	2912.2	17.6			
FH (60°-80°)	4661.9	28.1			G2/5000
FVH (80°-90°)	121.9	0.7			G2/225
BL (0°-30°)	584.5	3.5	B2/1000		
BM (30°-60°)	2912.2	17.6	B3/5000		
BH (60°-80°)	4661.9	28.1	B4/5000		G2/5000
BVH (80°-90°)	121.9	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°	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1
2.5°	1398.6	1399.5	1399.5	1397.7	1396.8	1396.8	1396.0	1396.0	1398.6	1399.5	1400.3
5°	1386.3	1386.3	1386.3	1385.5	1383.7	1383.7	1382.0	1382.0	1382.8	1385.5	1383.7
7.5°	1369.7	1371.5	1371.5	1368.0	1365.4	1365.4	1364.5	1365.4	1366.2	1368.9	1368.0
10°	1364.5	1365.4	1361.0	1354.9	1350.5	1347.9	1348.7	1350.5	1354.9	1356.6	1357.5
12.5°	1368.0	1368.0	1360.1	1351.4	1343.5	1340.0	1339.1	1345.2	1353.1	1358.4	1360.1
15°	1372.4	1370.6	1361.0	1349.6	1341.7	1340.9	1340.0	1344.4	1355.7	1366.2	1367.1
17.5°	1375.0	1374.1	1361.9	1347.9	1343.5	1343.5	1342.6	1346.1	1358.4	1371.5	1372.4
20°	1383.7	1381.1	1367.1	1352.2	1348.7	1350.5	1347.9	1352.2	1365.4	1381.1	1384.6
22.5°	1401.2	1398.6	1384.6	1369.7	1368.0	1368.0	1367.1	1371.5	1385.5	1402.1	1404.7
25°	1422.2	1419.6	1406.5	1396.0	1397.7	1401.2	1399.5	1400.3	1411.7	1425.7	1430.1
27.5°	1450.2	1445.8	1434.5	1425.7	1431.0	1431.0	1431.0	1430.1	1437.1	1450.2	1454.6
30°	1484.3	1482.6	1470.3	1469.4	1473.8	1469.4	1469.4	1470.3	1471.2	1483.4	1487.8
32.5°	1528.9	1525.4	1519.3	1517.5	1529.8	1533.3	1521.0	1509.7	1515.8	1528.0	1530.7
35°	1602.4	1597.1	1588.4	1578.8	1588.4	1605.0	1578.8	1570.0	1585.8	1602.4	1604.1
37.5°	1702.1	1699.5	1685.5	1668.0	1667.1	1684.6	1657.5	1656.6	1686.4	1706.5	1709.1
40°	1827.2	1829.8	1812.3	1795.7	1786.9	1800.9	1779.9	1787.8	1816.7	1839.4	1837.7
42.5°	2003.0	1993.4	1966.3	1950.5	1940.9	1935.6	1930.4	1942.6	1975.0	1999.5	2018.7
45°	2208.5	2205.0	2170.9	2151.7	2130.7	2122.8	2121.1	2142.9	2182.3	2212.0	2214.7
47.5°	2441.2	2433.3	2411.5	2391.3	2383.5	2373.8	2365.1	2381.7	2421.1	2442.1	2448.2
50°	2680.9	2682.6	2682.6	2679.1	2687.0	2688.7	2665.1	2671.2	2693.1	2691.4	2689.6
52.5°	2954.6	2964.2	3009.7	3014.1	3051.7	3077.1	3034.2	3008.9	3001.0	2953.8	2957.2
55°	3276.5	3285.2	3353.5	3421.7	3523.2	3566.0	3475.9	3397.2	3341.2	3269.5	3273.0
57.5°	3678.0	3682.3	3747.1	3878.3	4039.2	4139.8	3981.5	3825.8	3712.1	3643.9	3616.7
60°	4110.1	4114.4	4208.9	4369.0	4619.1	4741.6	4545.6	4291.1	4147.7	4043.6	4050.6
62.5°	4628.7	4646.2	4731.1	4951.5	5255.0	5392.3	5132.5	4792.3	4598.1	4468.7	4473.9
65°	5184.2	5213.9	5306.6	5548.9	5828.8	5976.6	5658.2	5265.5	5024.1	4865.8	4882.4
67.5°	5544.5	5570.8	5704.6	5972.2	6321.2	6443.7	6032.6	5575.1	5273.4	5084.4	5049.5
70°	5452.7	5474.5	5653.0	6032.6	6549.5	6704.3	6121.8	5529.6	5174.5	4956.7	4942.7
72.5°	4813.3	4767.8	5028.5	5573.4	6288.9	6548.6	5841.0	5050.3	4603.4	4379.5	4353.2
75°	3189.9	3288.7	3673.6	4315.6	5320.6	5642.5	4985.6	4055.0	3492.5	3306.2	3277.4
77.5°	1066.2	1142.3	1484.3	2446.4	3627.2	4110.9	3632.5	2652.0	1876.2	1511.4	1518.4
80°	282.5	279.0	361.2	672.6	1567.4	2380.8	1824.6	898.3	491.6	356.0	337.6
82.5°	101.5	113.7	146.1	186.3	415.5	740.0	522.2	251.9	184.6	136.4	132.1
85°	44.6	43.7	63.0	74.3	104.1	138.2	122.5	106.7	93.6	62.1	57.7
87.5°	9.6	9.6	14.9	11.4	18.4	18.4	22.7	27.1	28.0	18.4	14.9
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)