

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: P458645

Luminaire Tested: **GALN-SA2A-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8552 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

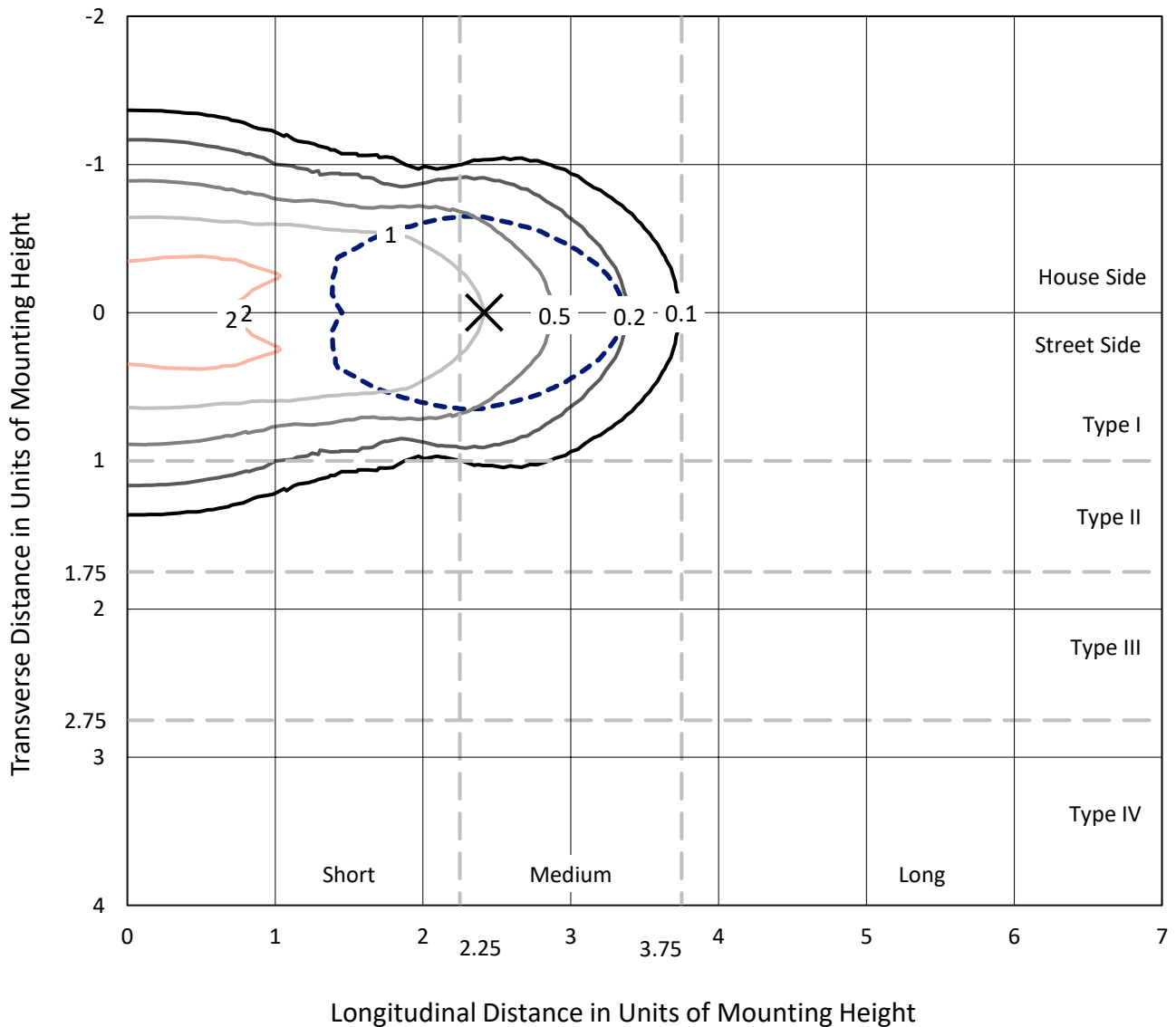
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

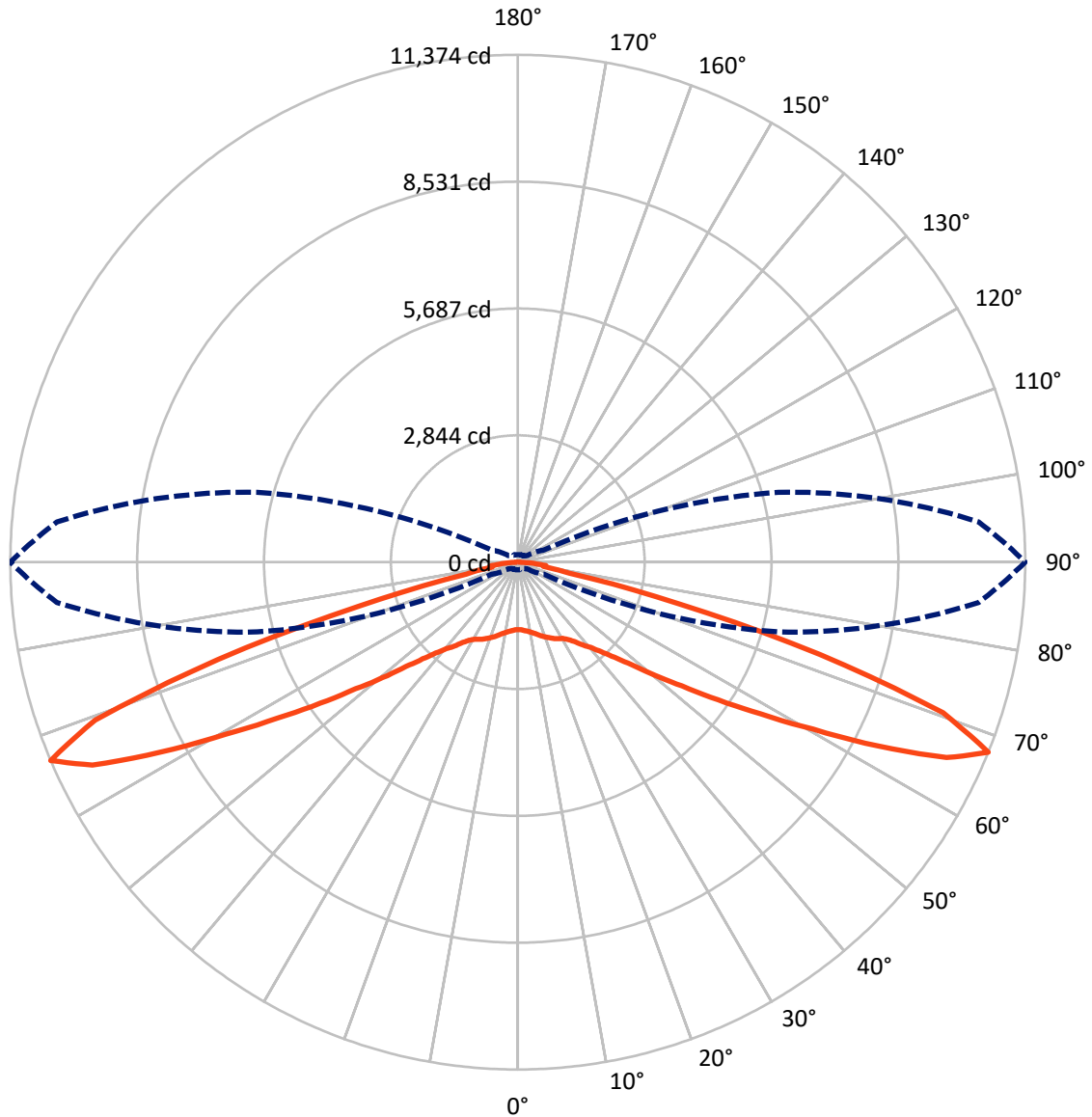
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4276.0	0.0	4276.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4276.0	0.0	4276.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8552.0	0.0	8552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.8
10°-20°	482.9	5.6
20°-30°	808.3	9.5
30°-40°	1095.0	12.8
40°-50°	1387.1	16.2
50°-60°	1732.8	20.3
60°-70°	2036.8	23.8
70°-80°	779.2	9.1
80°-90°	78.9	0.9
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°	8552.0	100.0
0°-180°	8552.0	100.0

Coefficient of Utilization



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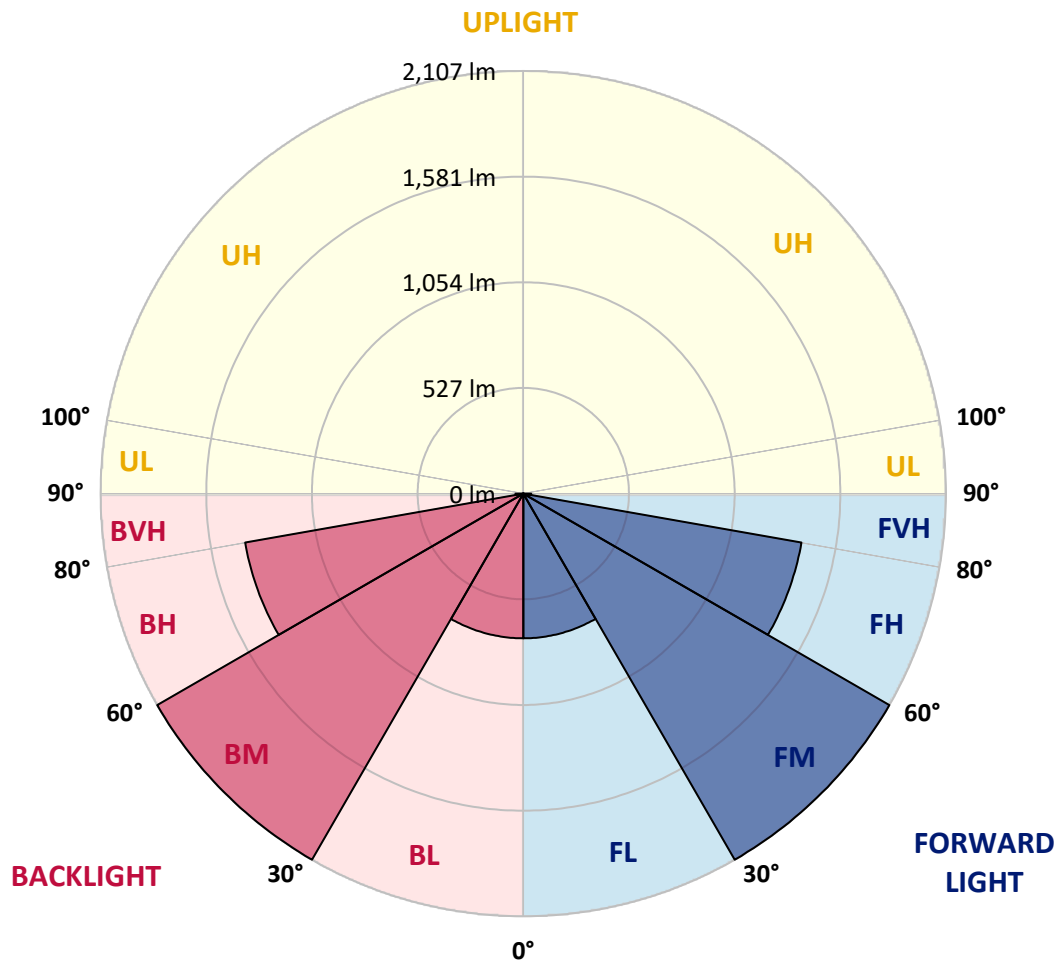
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.1	8.4			
FM	(30°-60°)	2107.4	24.6			
FH	(60°-80°)	1408.0	16.5			G1/1800
FVH	(80°-90°)	39.5	0.5			G1/100
BL	(0°-30°)	721.1	8.4	B2/1000		
BM	(30°-60°)	2107.4	24.6	B2/2500		
BH	(60°-80°)	1408.0	16.5	B3/2500		G3/2500
BVH	(80°-90°)	39.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1533.4	1532.4	1532.9	1532.4	1533.9	1532.9	1527.2	1522.5	1518.7	1519.2	1517.8
5°	1566.1	1566.5	1567.0	1564.6	1568.0	1566.1	1557.1	1549.5	1541.9	1539.1	1538.1
7.5°	1593.1	1595.4	1596.8	1599.2	1604.9	1604.9	1600.2	1589.3	1572.7	1563.2	1562.7
10°	1620.0	1621.9	1626.2	1633.8	1643.3	1652.2	1650.4	1635.7	1614.4	1598.3	1594.5
12.5°	1629.5	1631.9	1646.1	1667.9	1689.2	1706.7	1706.7	1694.9	1667.4	1642.8	1635.7
15°	1596.4	1600.6	1626.2	1672.6	1728.5	1766.9	1775.4	1758.8	1729.4	1691.6	1683.0
17.5°	1530.5	1541.0	1578.4	1647.0	1739.9	1819.4	1844.0	1836.0	1798.1	1749.8	1739.9
20°	1460.0	1471.3	1511.1	1602.1	1730.4	1850.2	1921.7	1923.6	1876.7	1806.6	1791.9
22.5°	1382.3	1390.8	1442.0	1548.5	1702.0	1857.3	1988.5	2021.2	1957.7	1863.5	1842.6
25°	1295.2	1304.7	1358.2	1473.2	1648.5	1849.3	2049.6	2121.5	2042.5	1924.1	1897.6
27.5°	1211.8	1215.6	1272.9	1389.9	1577.9	1828.4	2094.6	2213.9	2136.2	1974.3	1940.6
30°	1131.8	1140.8	1191.5	1307.0	1496.9	1787.7	2133.4	2319.0	2237.1	2026.8	1983.7
32.5°	1047.0	1057.9	1112.9	1229.8	1415.9	1726.6	2157.1	2434.1	2377.7	2112.1	2066.1
35°	965.6	972.7	1028.1	1141.8	1336.9	1655.6	2161.3	2563.9	2559.1	2241.4	2180.3
37.5°	882.2	892.7	948.5	1057.5	1253.0	1580.3	2140.0	2701.7	2777.9	2420.8	2355.0
40°	802.2	811.2	866.1	976.0	1157.9	1488.4	2089.3	2827.6	3033.1	2605.5	2512.2
42.5°	715.1	717.4	777.6	889.3	1064.6	1381.8	2016.4	2939.9	3317.8	2853.2	2737.2
45°	616.1	622.3	678.1	788.0	957.5	1262.5	1917.4	3032.7	3678.6	3196.5	3038.4
47.5°	517.1	522.3	573.5	681.9	840.6	1125.7	1765.0	3114.1	4048.9	3632.7	3425.3
50°	420.5	423.4	465.0	561.2	708.9	981.7	1576.0	3140.2	4467.6	4250.2	3985.5
52.5°	332.4	336.7	368.4	443.7	568.3	811.7	1371.9	3075.8	4956.3	4982.3	4609.2
55°	269.5	270.9	294.6	350.0	444.2	633.6	1125.7	2896.3	5481.9	5920.4	5444.5
57.5°	232.0	233.0	246.3	277.0	341.9	477.8	873.2	2556.7	5954.1	7019.6	6407.7
60°	210.7	211.2	218.8	236.8	270.9	366.5	625.6	2077.5	6420.0	8242.8	7604.9
62.5°	197.5	197.5	202.7	212.6	229.2	281.3	453.2	1498.8	6739.2	9484.0	9080.5
65°	184.7	184.7	188.5	195.6	204.6	230.1	334.8	977.4	6731.2	10388.0	10564.6
67.5°	170.0	170.0	172.8	180.0	185.2	197.9	258.6	640.3	6046.4	10368.1	11374.4
70°	152.5	152.5	156.3	162.4	166.7	174.7	204.1	438.0	4442.0	8852.7	10115.7
72.5°	135.0	135.4	137.8	144.0	147.3	152.0	169.5	306.9	2724.9	6027.9	7073.1
75°	115.5	116.5	118.9	125.0	127.9	129.8	143.0	218.8	1378.5	3250.0	3700.4
77.5°	93.3	95.2	96.6	103.2	105.1	108.0	117.9	158.2	605.2	1167.8	1178.2
80°	68.2	70.6	74.8	81.0	82.4	84.3	90.0	112.2	274.2	533.2	579.2
82.5°	50.2	53.5	48.3	56.4	56.4	54.0	63.5	75.3	126.0	528.0	631.7
85°	27.5	27.9	25.1	28.9	30.8	30.3	33.6	36.9	61.1	352.3	363.2
87.5°	6.6	7.1	7.6	9.0	10.9	10.9	11.8	10.4	19.9	114.1	65.4
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)