

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: P451163

Luminaire Tested: **GALN-SA2A-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451163
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-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8361 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

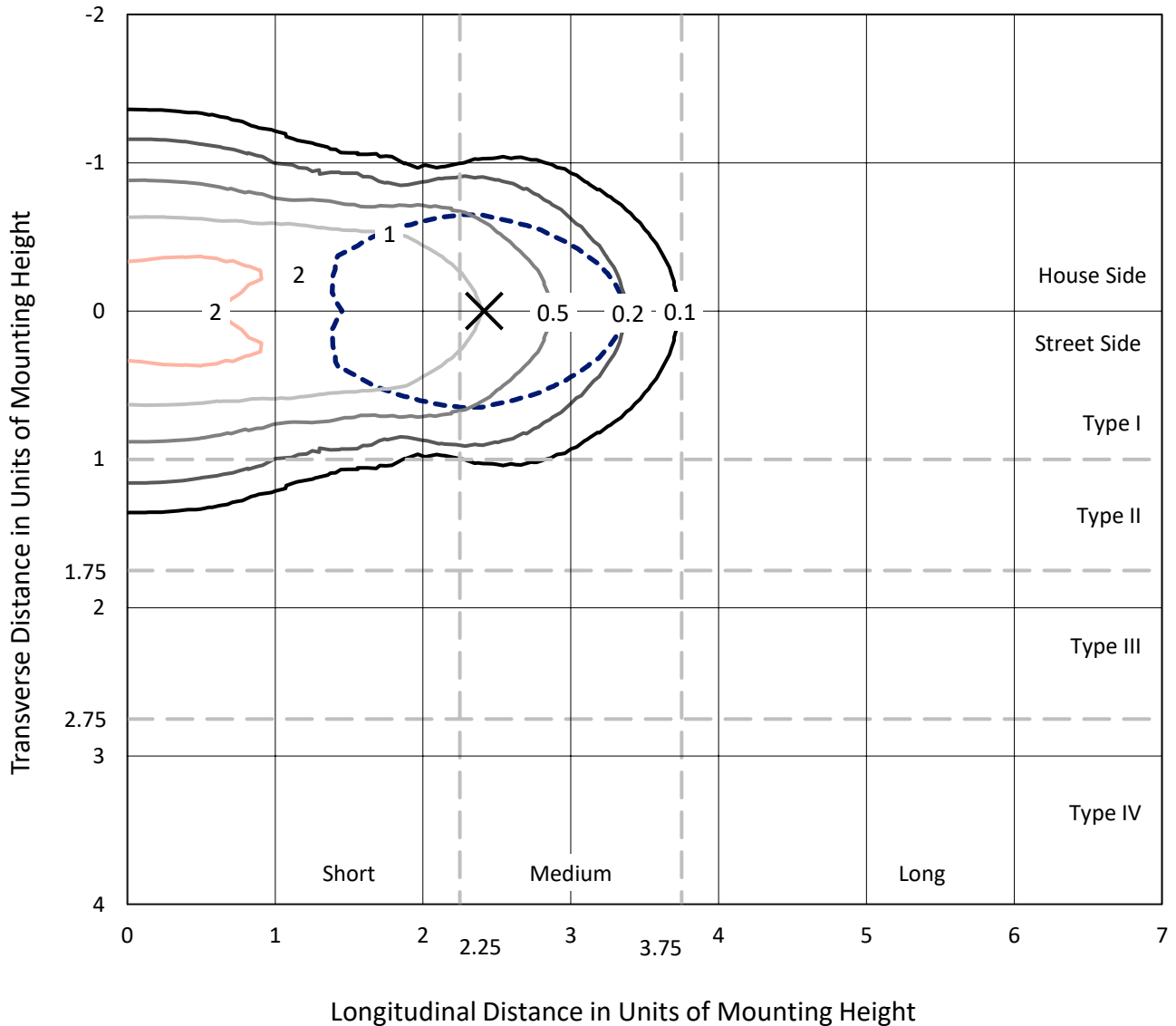
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

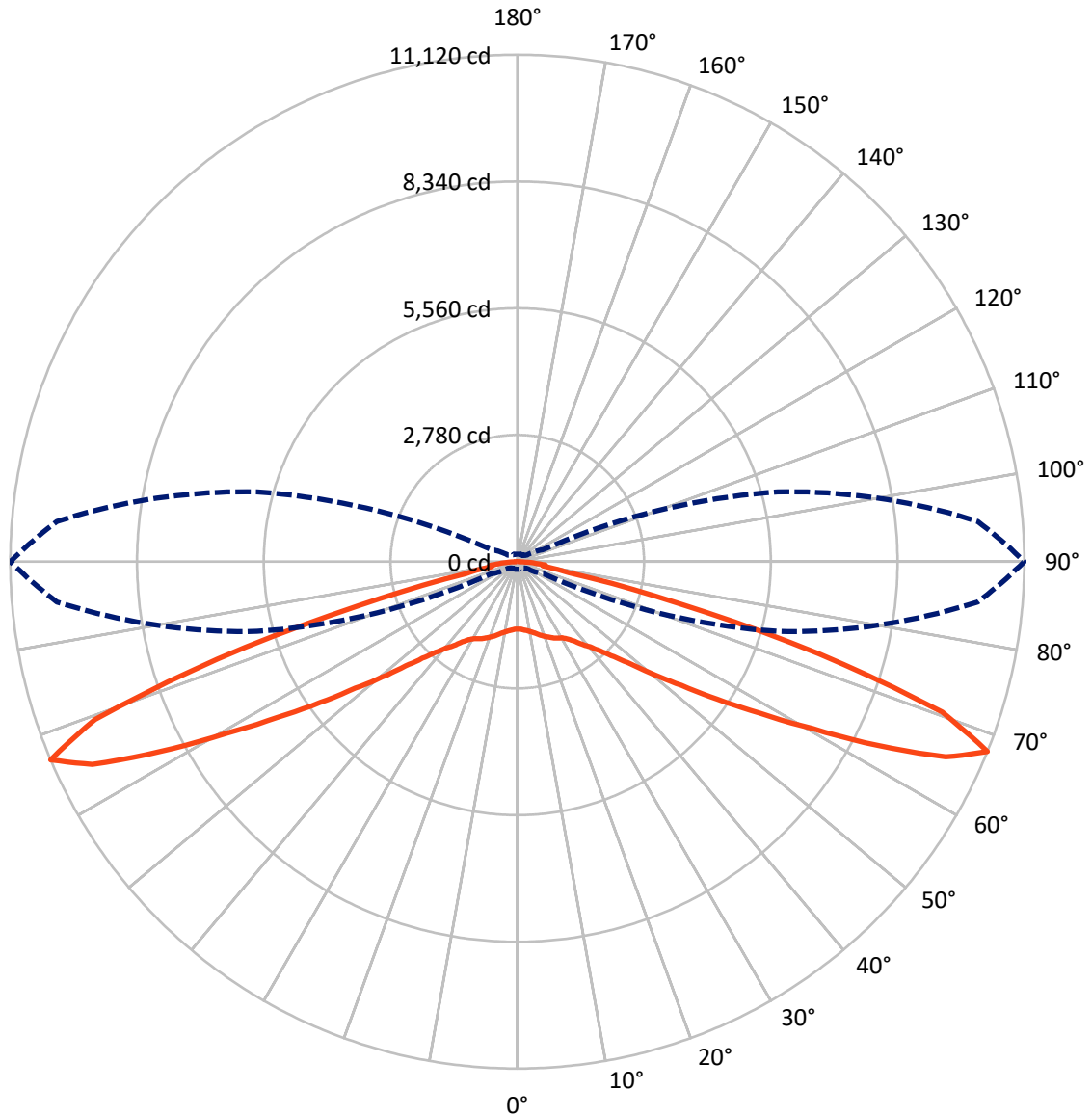
× Max cd
 - - - 1/2 Max cd



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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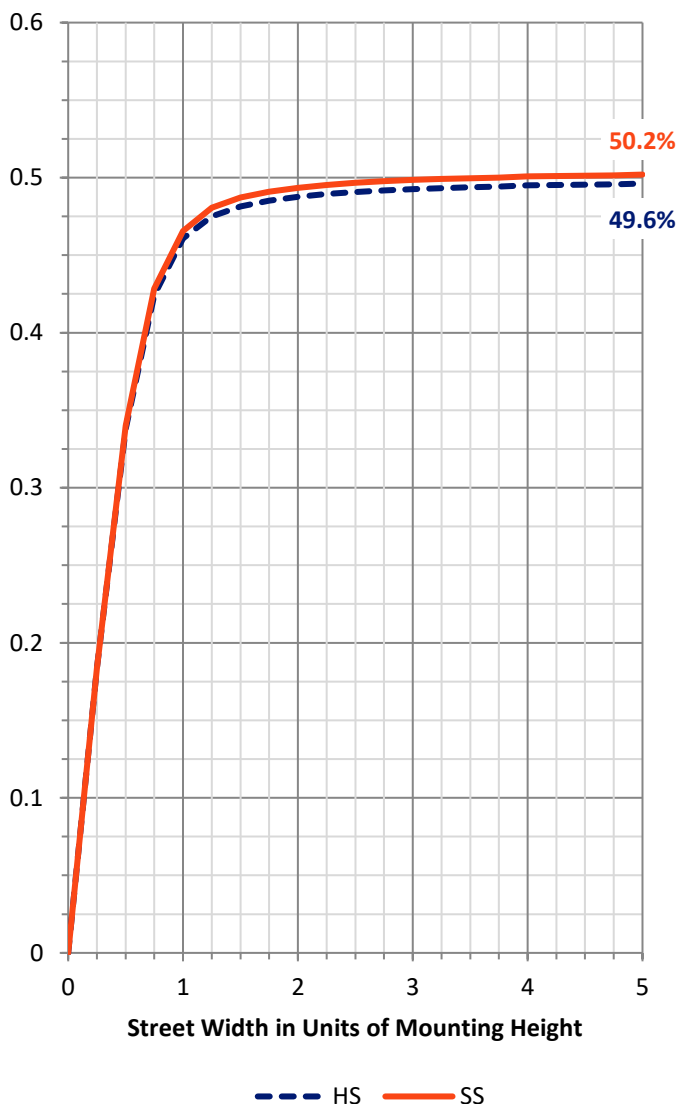
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4180.5	0.0	4180.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4180.5	0.0	4180.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8361.0	0.0	8361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.8
10°-20°	472.1	5.6
20°-30°	790.3	9.5
30°-40°	1070.6	12.8
40°-50°	1356.1	16.2
50°-60°	1694.1	20.3
60°-70°	1991.3	23.8
70°-80°	761.8	9.1
80°-90°	77.2	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°	8361.0	100.0
0°-180°	8361.0	100.0

Coefficient of Utilization



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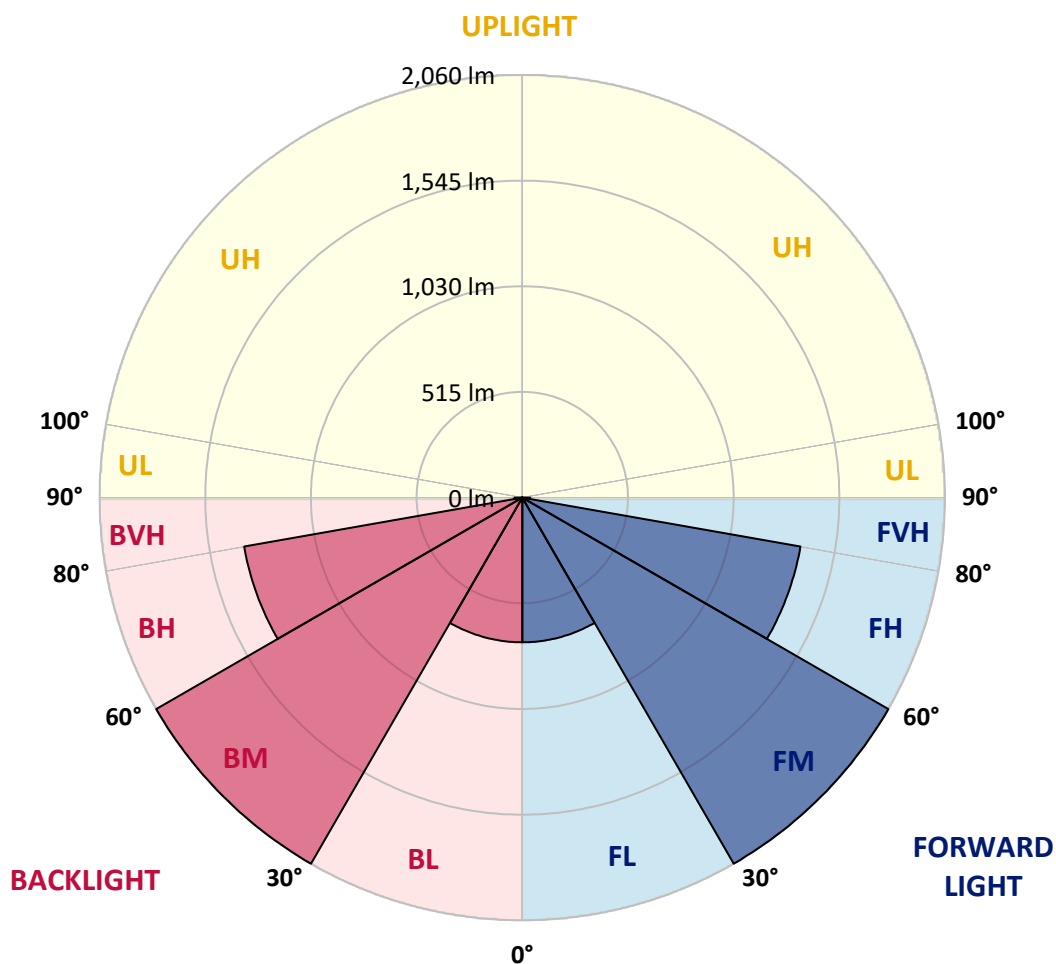
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.0	8.4			
FM (30°-60°)	2060.4	24.6			
FH (60°-80°)	1376.5	16.5			G1/1800
FVH (80°-90°)	38.6	0.5			G1/100
BL (0°-30°)	705.0	8.4	B2/1000		
BM (30°-60°)	2060.4	24.6	B2/2500		
BH (60°-80°)	1376.5	16.5	B3/2500		G3/2500
BVH (80°-90°)	38.6	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°	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2
2.5°	1499.1	1498.2	1498.7	1498.2	1499.6	1498.7	1493.1	1488.5	1484.8	1485.3	1483.9
5°	1531.1	1531.5	1532.0	1529.7	1532.9	1531.1	1522.3	1514.9	1507.5	1504.7	1503.8
7.5°	1557.5	1559.8	1561.2	1563.5	1569.1	1569.1	1564.4	1553.8	1537.6	1528.3	1527.8
10°	1583.9	1585.7	1589.9	1597.3	1606.6	1615.3	1613.5	1599.1	1578.3	1562.6	1558.9
12.5°	1593.1	1595.4	1609.3	1630.6	1651.5	1668.6	1668.6	1657.0	1630.2	1606.1	1599.1
15°	1560.7	1564.9	1589.9	1635.3	1689.9	1727.4	1735.7	1719.5	1690.8	1653.8	1645.4
17.5°	1496.4	1506.5	1543.1	1610.3	1701.0	1778.8	1802.9	1795.0	1757.9	1710.7	1701.0
20°	1427.4	1438.5	1477.4	1566.3	1691.7	1808.9	1878.8	1880.6	1834.8	1766.3	1751.9
22.5°	1351.4	1359.8	1409.8	1514.0	1664.0	1815.8	1944.1	1976.0	1914.0	1821.8	1801.5
25°	1266.3	1275.5	1327.8	1440.3	1611.6	1807.9	2003.8	2074.2	1996.8	1881.1	1855.2
27.5°	1184.8	1188.5	1244.5	1358.9	1542.7	1787.6	2047.8	2164.4	2088.5	1930.2	1897.3
30°	1106.5	1115.3	1164.9	1277.8	1463.5	1747.8	2085.7	2267.2	2187.1	1981.6	1939.4
32.5°	1023.7	1034.3	1088.0	1202.4	1384.3	1688.0	2108.9	2379.7	2324.6	2064.9	2020.0
35°	944.0	951.0	1005.1	1116.3	1307.0	1618.6	2113.1	2506.6	2502.0	2191.3	2131.6
37.5°	862.5	872.7	927.4	1033.8	1225.1	1545.0	2092.2	2641.3	2715.9	2366.8	2302.4
40°	784.3	793.1	846.8	954.2	1132.0	1455.2	2042.7	2764.5	2965.4	2547.3	2456.1
42.5°	699.1	701.4	760.2	869.5	1040.8	1351.0	1971.4	2874.2	3243.7	2789.5	2676.0
45°	602.3	608.4	663.0	770.4	936.2	1234.3	1874.6	2964.9	3596.5	3125.1	2970.5
47.5°	505.6	510.7	560.7	666.7	821.8	1100.5	1725.5	3044.6	3958.5	3551.5	3348.8
50°	411.1	413.9	454.6	548.6	693.1	959.8	1540.8	3070.0	4367.8	4155.3	3896.5
52.5°	325.0	329.2	360.2	433.8	555.6	793.6	1341.3	3007.1	4845.6	4871.0	4506.2
55°	263.4	264.8	288.0	342.1	434.3	619.5	1100.5	2831.6	5359.5	5788.2	5322.9
57.5°	226.9	227.8	240.8	270.8	334.3	467.2	853.7	2499.6	5821.1	6862.8	6264.6
60°	206.0	206.5	213.9	231.5	264.8	358.3	611.6	2031.1	6276.7	8058.7	7435.0
62.5°	193.1	193.1	198.2	207.9	224.1	275.0	443.1	1465.3	6588.7	9272.2	8877.7
65°	180.6	180.6	184.3	191.2	200.0	225.0	327.3	955.6	6580.8	10156.0	10328.7
67.5°	166.2	166.2	169.0	175.9	181.0	193.5	252.8	626.0	5911.4	10136.6	11120.4
70°	149.1	149.1	152.8	158.8	163.0	170.8	199.5	428.3	4342.8	8655.0	9889.8
72.5°	132.0	132.4	134.7	140.7	144.0	148.6	165.7	300.0	2664.0	5893.3	6915.1
75°	113.0	113.9	116.2	122.2	125.0	126.9	139.8	213.9	1347.7	3177.5	3617.8
77.5°	91.2	93.1	94.4	100.9	102.8	105.6	115.3	154.6	591.7	1141.7	1151.9
80°	66.7	69.0	73.2	79.2	80.6	82.4	88.0	109.7	268.1	521.3	566.2
82.5°	49.1	52.3	47.2	55.1	55.1	52.8	62.0	73.6	123.2	516.2	617.6
85°	26.9	27.3	24.5	28.2	30.1	29.6	32.9	36.1	59.7	344.5	355.1
87.5°	6.5	6.9	7.4	8.8	10.6	10.6	11.6	10.2	19.4	111.6	63.9
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)