

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: P450830

Luminaire Tested: **GALN-SA1C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450830
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-SA1C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5916 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): 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



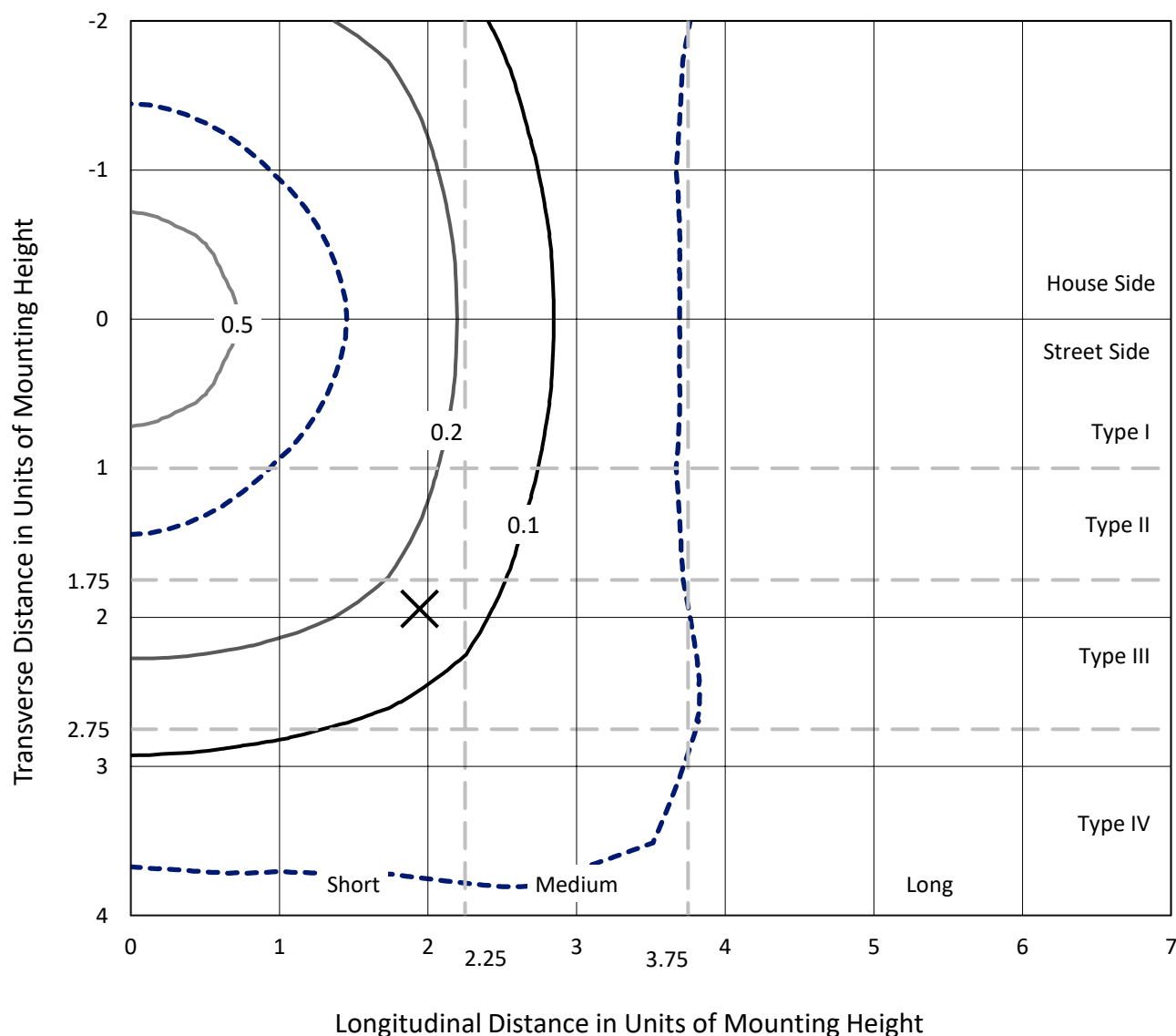
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



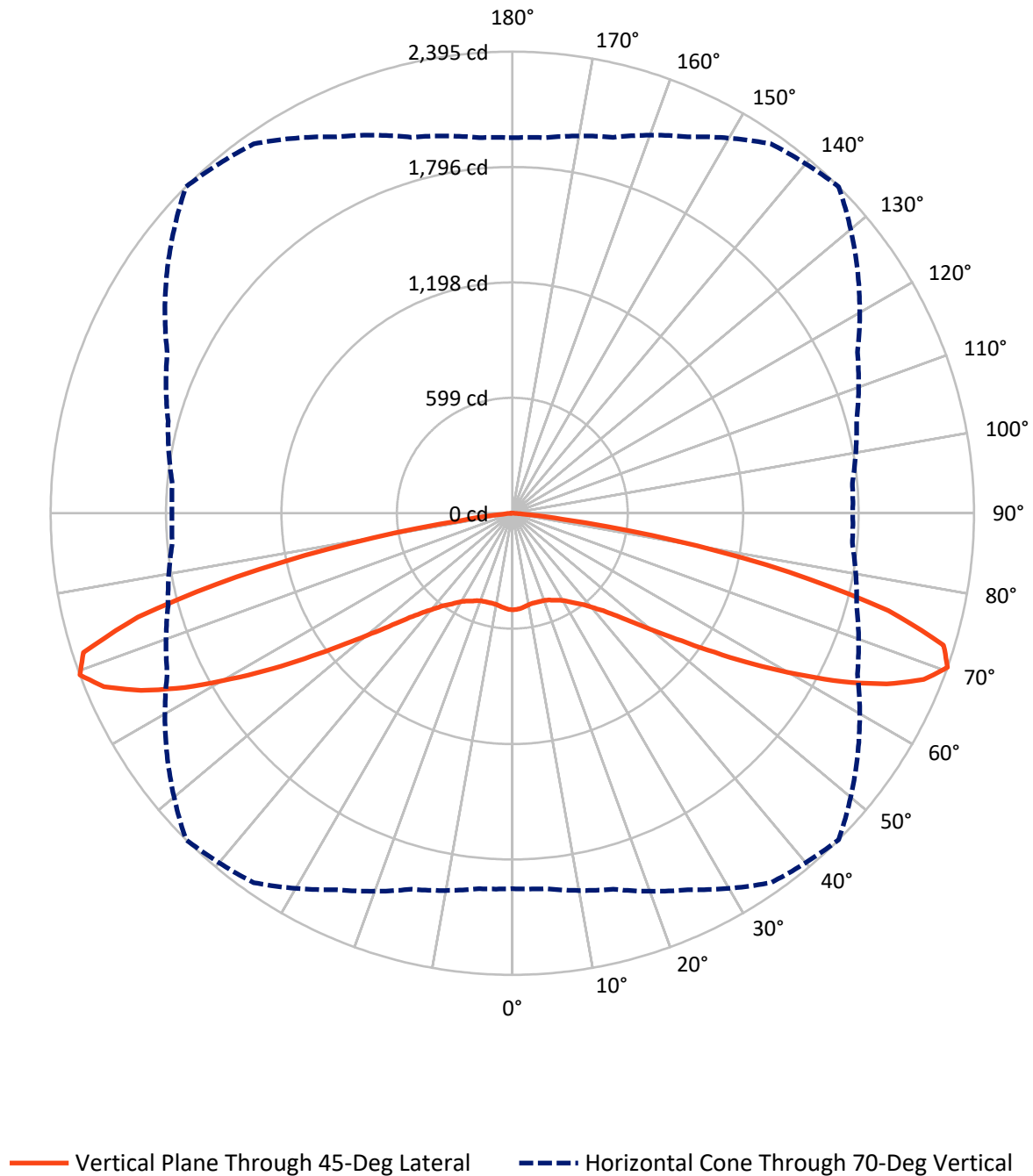
Based on 25 foot mounting height. Maximum calculated value = 0.8 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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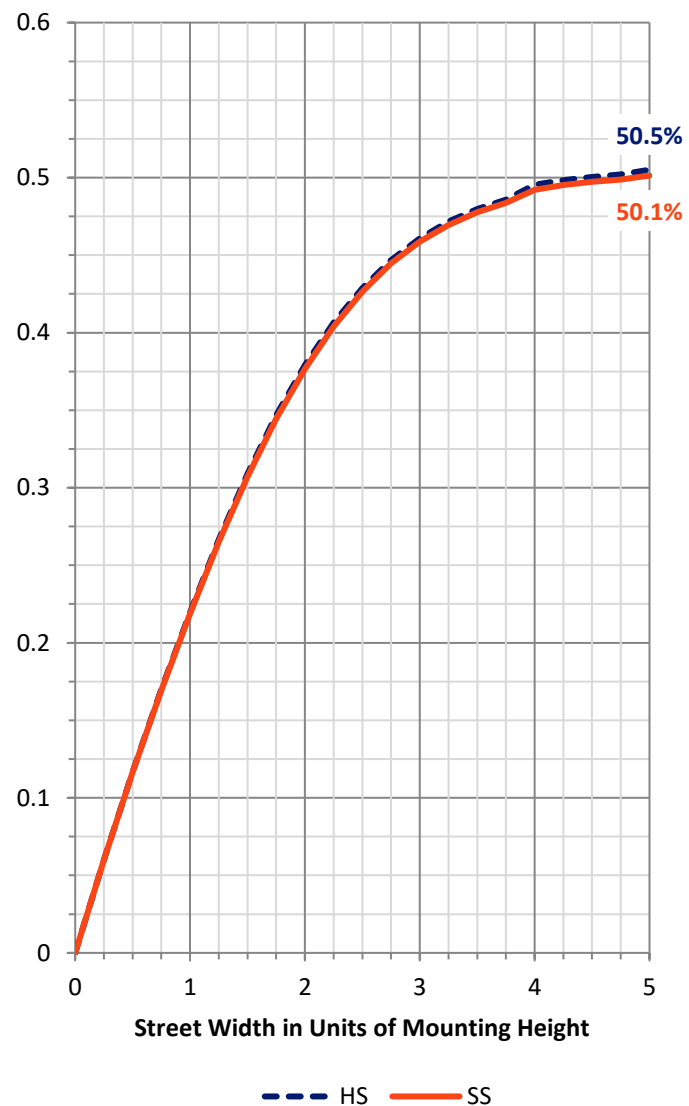
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2958.0	0.0	2958.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2958.0	0.0	2958.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5916.0	0.0	5916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	0.8
10°-20°	137.1	2.3
20°-30°	233.6	3.9
30°-40°	362.1	6.1
40°-50°	609.5	10.3
50°-60°	1109.0	18.7
60°-70°	1877.5	31.7
70°-80°	1453.2	24.6
80°-90°	87.1	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°	5916.0	100.0
0°-180°	5916.0	100.0

Coefficient of Utilization



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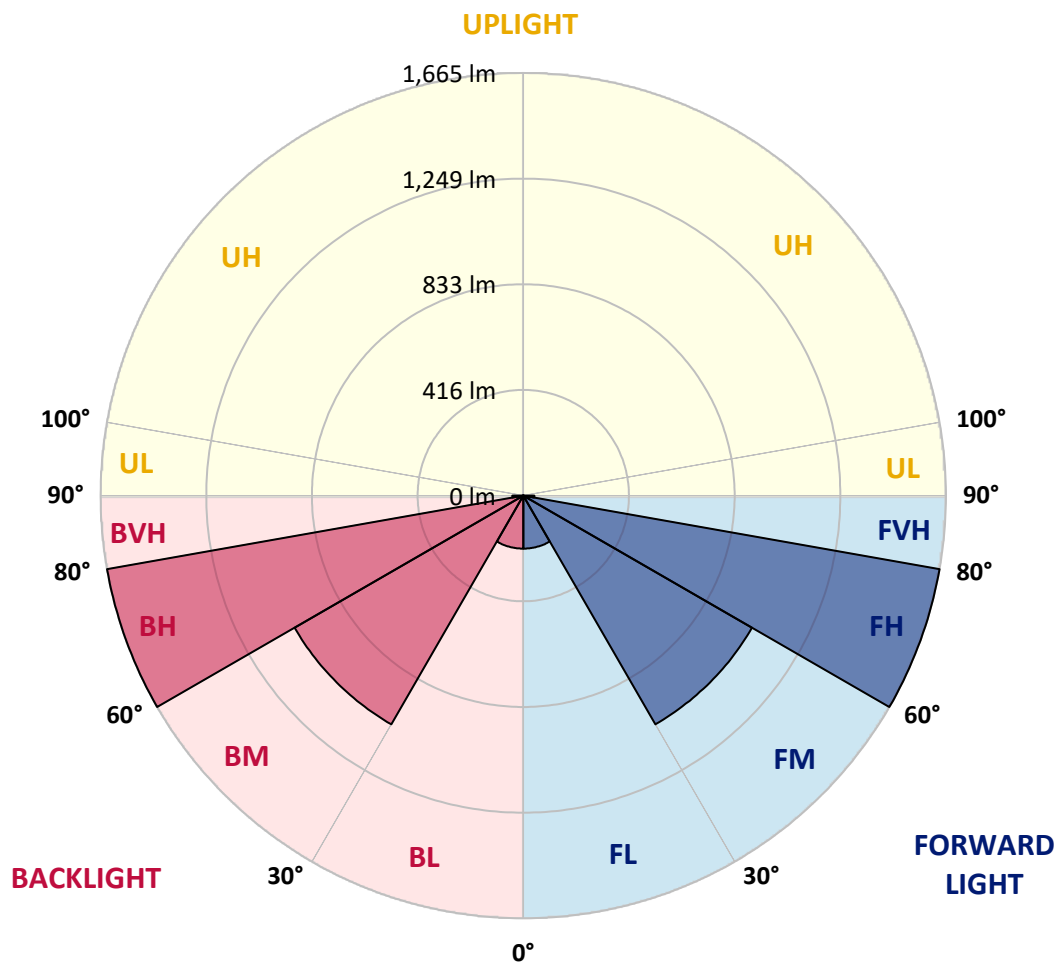
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.8	3.5			
FM	(30°-60°)	1040.3	17.6			
FH	(60°-80°)	1665.4	28.1			G1/1800
FVH	(80°-90°)	43.5	0.7			G1/100
BL	(0°-30°)	208.8	3.5	B1/500		
BM	(30°-60°)	1040.3	17.6	B2/2500		
BH	(60°-80°)	1665.4	28.1	B3/2500		G1/1800
BVH	(80°-90°)	43.5	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9
2.5°	499.6	499.9	499.9	499.3	499.0	499.0	498.7	498.7	499.6	499.9	500.2
5°	495.2	495.2	495.2	494.9	494.3	494.3	493.7	493.7	494.0	494.9	494.3
7.5°	489.3	489.9	489.9	488.7	487.7	487.7	487.4	487.7	488.1	489.0	488.7
10°	487.4	487.7	486.2	484.0	482.4	481.5	481.8	482.4	484.0	484.6	484.9
12.5°	488.7	488.7	485.9	482.7	479.9	478.7	478.4	480.6	483.4	485.2	485.9
15°	490.2	489.6	486.2	482.1	479.3	479.0	478.7	480.2	484.3	488.1	488.4
17.5°	491.2	490.9	486.5	481.5	479.9	479.9	479.6	480.9	485.2	489.9	490.2
20°	494.3	493.4	488.4	483.1	481.8	482.4	481.5	483.1	487.7	493.4	494.6
22.5°	500.5	499.6	494.6	489.3	488.7	488.7	488.4	489.9	494.9	500.9	501.8
25°	508.0	507.1	502.4	498.7	499.3	500.5	499.9	500.2	504.3	509.3	510.9
27.5°	518.0	516.5	512.4	509.3	511.2	511.2	511.2	510.9	513.4	518.0	519.6
30°	530.2	529.6	525.2	524.9	526.5	524.9	524.9	525.2	525.5	529.9	531.5
32.5°	546.2	544.9	542.7	542.1	546.5	547.7	543.4	539.3	541.5	545.9	546.8
35°	572.4	570.5	567.4	564.0	567.4	573.4	564.0	560.9	566.5	572.4	573.0
37.5°	608.0	607.1	602.1	595.8	595.5	601.8	592.1	591.8	602.4	609.6	610.5
40°	652.7	653.7	647.4	641.5	638.3	643.3	635.8	638.7	649.0	657.1	656.5
42.5°	715.5	712.1	702.4	696.8	693.3	691.5	689.6	694.0	705.5	714.3	721.1
45°	788.9	787.7	775.5	768.6	761.1	758.3	757.7	765.5	779.6	790.2	791.1
47.5°	872.1	869.2	861.4	854.2	851.4	848.0	844.9	850.8	864.9	872.4	874.6
50°	957.7	958.3	958.3	957.0	959.9	960.5	952.0	954.2	962.0	961.4	960.8
52.5°	1055.5	1058.9	1075.2	1076.7	1090.1	1099.2	1083.9	1074.8	1072.0	1055.2	1056.4
55°	1170.4	1173.6	1197.9	1222.3	1258.6	1273.9	1241.7	1213.6	1193.6	1167.9	1169.2
57.5°	1313.9	1315.4	1338.5	1385.4	1442.9	1478.8	1422.3	1366.7	1326.0	1301.7	1292.0
60°	1468.2	1469.8	1503.5	1560.7	1650.1	1693.8	1623.8	1532.9	1481.7	1444.5	1447.0
62.5°	1653.5	1659.7	1690.1	1768.8	1877.2	1926.3	1833.5	1711.9	1642.6	1596.3	1598.2
65°	1851.9	1862.5	1895.7	1982.2	2082.2	2135.0	2021.3	1881.0	1794.7	1738.2	1744.1
67.5°	1980.6	1990.0	2037.8	2133.4	2258.1	2301.8	2155.0	1991.6	1883.8	1816.3	1803.8
70°	1947.8	1955.6	2019.4	2155.0	2339.6	2395.0	2186.9	1975.3	1848.5	1770.7	1765.7
72.5°	1719.4	1703.2	1796.3	1990.9	2246.5	2339.3	2086.6	1804.1	1644.4	1564.5	1555.1
75°	1139.5	1174.8	1312.3	1541.6	1900.7	2015.6	1781.0	1448.5	1247.6	1181.1	1170.8
77.5°	380.9	408.1	530.2	873.9	1295.7	1468.5	1297.6	947.4	670.2	539.9	542.4
80°	100.9	99.7	129.0	240.3	559.9	850.5	651.8	320.9	175.6	127.2	120.6
82.5°	36.2	40.6	52.2	66.6	148.4	264.3	186.5	90.0	65.9	48.7	47.2
85°	15.9	15.6	22.5	26.6	37.2	49.4	43.7	38.1	33.4	22.2	20.6
87.5°	3.4	3.4	5.3	4.1	6.6	6.6	8.1	9.7	10.0	6.6	5.3
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)