

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: P450598

Luminaire Tested: **GALN-SA1B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450598
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-SA1B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4789 lumens
Efficiency: N/A
Efficacy: 108.8 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): 44
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



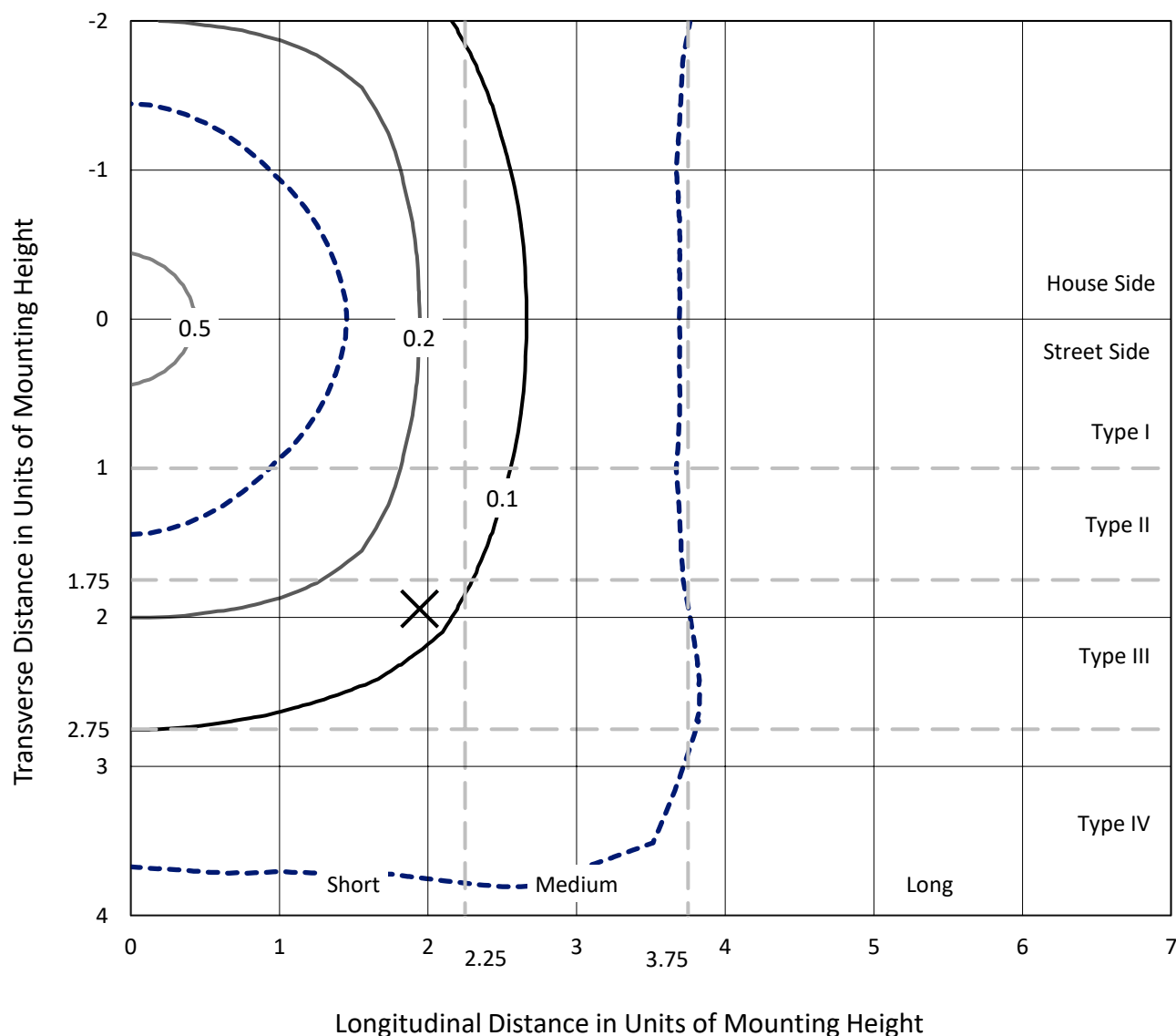
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



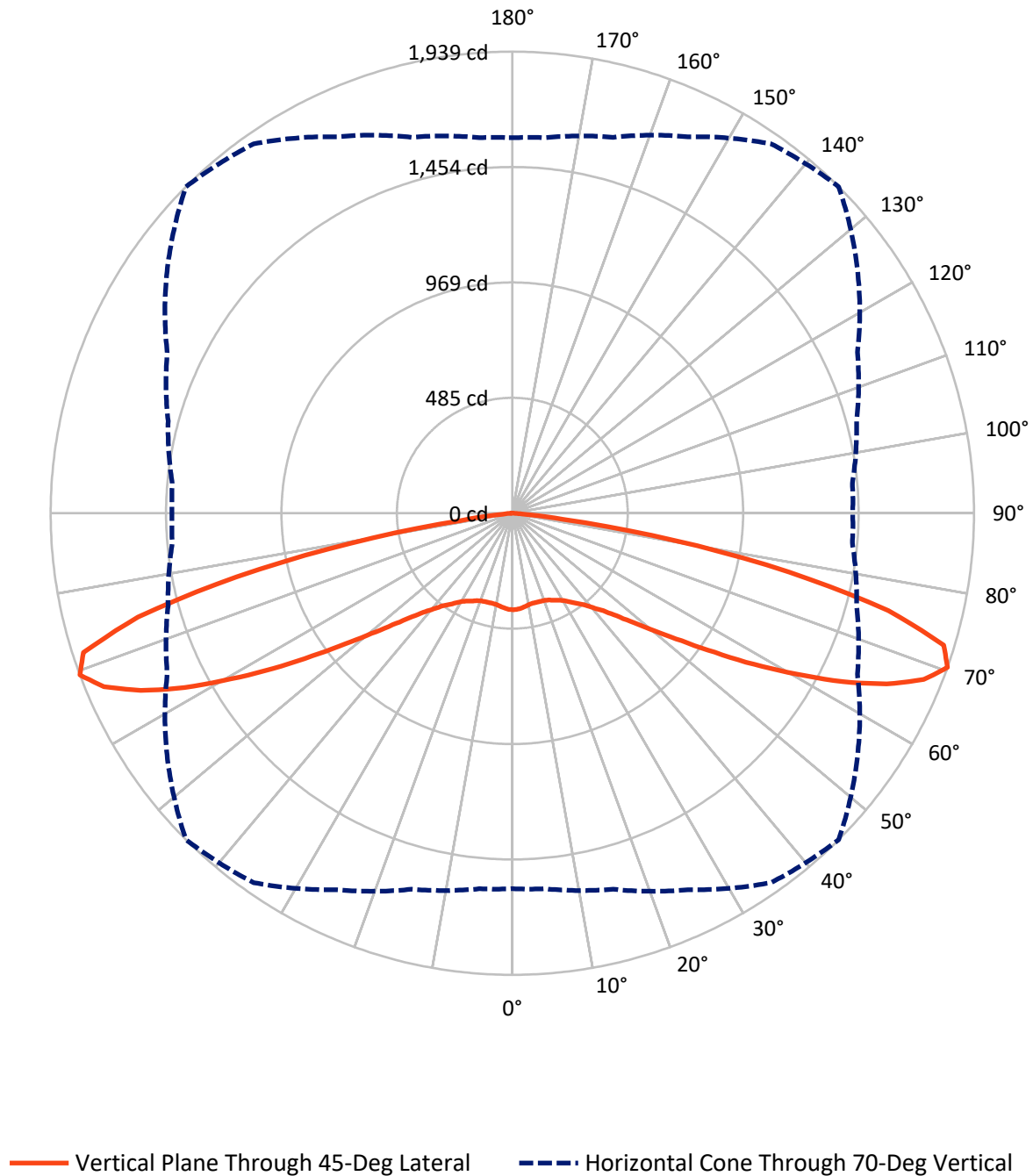
Based on 25 foot mounting height. Maximum calculated value = 0.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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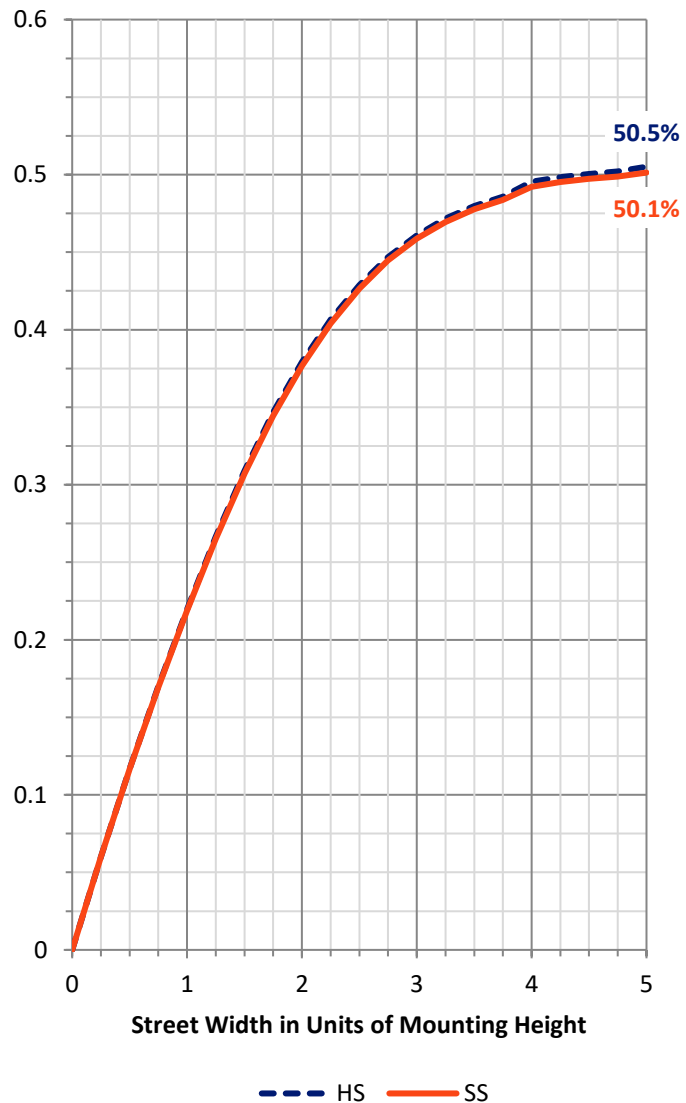
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.5	0.0	2394.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2394.5	0.0	2394.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4789.0	0.0	4789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.8
10°-20°	111.0	2.3
20°-30°	189.1	3.9
30°-40°	293.1	6.1
40°-50°	493.4	10.3
50°-60°	897.7	18.7
60°-70°	1519.8	31.7
70°-80°	1176.4	24.6
80°-90°	70.5	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°	4789.0	100.0
0°-180°	4789.0	100.0

Coefficient of Utilization



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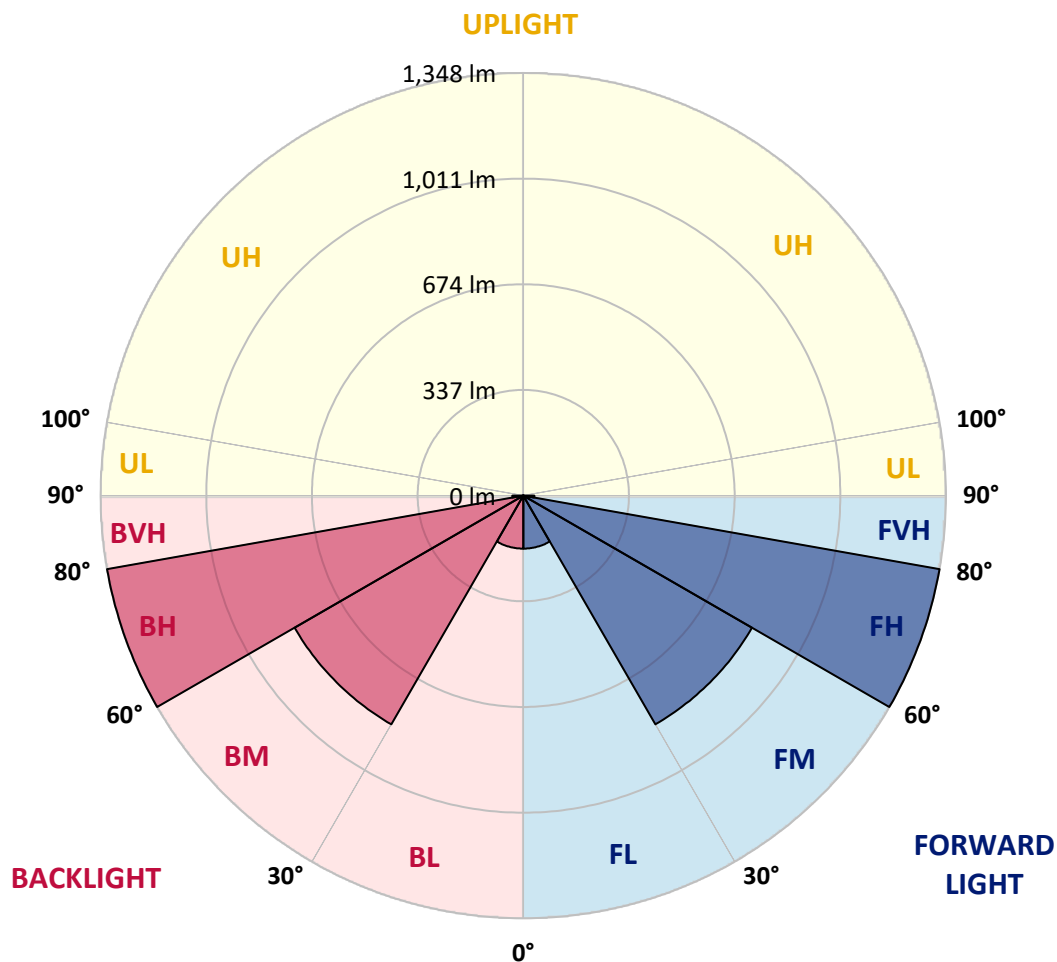
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.0	3.5			
FM	(30°-60°)	842.1	17.6			
FH	(60°-80°)	1348.1	28.2			G1/1800
FVH	(80°-90°)	35.2	0.7			G1/100
BL	(0°-30°)	169.0	3.5	B1/500		
BM	(30°-60°)	842.1	17.6	B1/1000		
BH	(60°-80°)	1348.1	28.2	B3/2500		G1/1800
BVH	(80°-90°)	35.2	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°	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4
2.5°	404.4	404.7	404.7	404.2	403.9	403.9	403.7	403.7	404.4	404.7	404.9
5°	400.9	400.9	400.9	400.6	400.1	400.1	399.6	399.6	399.9	400.6	400.1
7.5°	396.1	396.6	396.6	395.6	394.8	394.8	394.6	394.8	395.1	395.8	395.6
10°	394.6	394.8	393.6	391.8	390.5	389.8	390.0	390.5	391.8	392.3	392.5
12.5°	395.6	395.6	393.3	390.8	388.5	387.5	387.2	389.0	391.3	392.8	393.3
15°	396.8	396.3	393.6	390.3	388.0	387.7	387.5	388.8	392.0	395.1	395.3
17.5°	397.6	397.4	393.8	389.8	388.5	388.5	388.2	389.3	392.8	396.6	396.8
20°	400.1	399.4	395.3	391.0	390.0	390.5	389.8	391.0	394.8	399.4	400.4
22.5°	405.2	404.4	400.4	396.1	395.6	395.6	395.3	396.6	400.6	405.4	406.2
25°	411.3	410.5	406.7	403.7	404.2	405.2	404.7	404.9	408.2	412.3	413.5
27.5°	419.4	418.1	414.8	412.3	413.8	413.8	413.8	413.5	415.6	419.4	420.6
30°	429.2	428.7	425.2	424.9	426.2	424.9	424.9	425.2	425.4	429.0	430.2
32.5°	442.1	441.1	439.3	438.8	442.4	443.4	439.8	436.6	438.3	441.9	442.6
35°	463.4	461.9	459.3	456.5	459.3	464.1	456.5	454.0	458.6	463.4	463.9
37.5°	492.2	491.4	487.4	482.3	482.1	487.1	479.3	479.1	487.6	493.5	494.2
40°	528.4	529.1	524.1	519.3	516.7	520.8	514.7	517.0	525.3	531.9	531.4
42.5°	579.2	576.4	568.6	564.0	561.3	559.7	558.2	561.8	571.1	578.2	583.8
45°	638.6	637.6	627.8	622.2	616.1	613.9	613.4	619.7	631.1	639.7	640.4
47.5°	705.9	703.7	697.3	691.5	689.2	686.5	683.9	688.7	700.1	706.2	708.0
50°	775.2	775.7	775.7	774.7	777.0	777.5	770.7	772.4	778.8	778.3	777.8
52.5°	854.4	857.2	870.3	871.6	882.5	889.8	877.4	870.1	867.8	854.1	855.2
55°	947.5	950.0	969.7	989.5	1018.8	1031.2	1005.1	982.4	966.2	945.5	946.5
57.5°	1063.6	1064.8	1083.6	1121.5	1168.0	1197.1	1151.3	1106.3	1073.4	1053.7	1045.9
60°	1188.5	1189.8	1217.1	1263.4	1335.7	1371.1	1314.5	1240.9	1199.4	1169.3	1171.3
62.5°	1338.5	1343.6	1368.1	1431.8	1519.6	1559.3	1484.2	1385.8	1329.7	1292.2	1293.7
65°	1499.1	1507.7	1534.5	1604.6	1685.5	1728.3	1636.2	1522.6	1452.8	1407.1	1411.9
67.5°	1603.3	1610.9	1649.6	1727.0	1827.9	1863.3	1744.5	1612.2	1524.9	1470.3	1460.2
70°	1576.8	1583.1	1634.7	1744.5	1893.9	1938.7	1770.3	1599.0	1496.3	1433.4	1429.3
72.5°	1391.9	1378.7	1454.1	1611.7	1818.6	1893.7	1689.1	1460.4	1331.2	1266.4	1258.8
75°	922.4	951.0	1062.3	1248.0	1538.6	1631.7	1441.7	1172.6	1010.0	956.1	947.7
77.5°	308.3	330.3	429.2	707.4	1048.9	1188.8	1050.4	766.9	542.5	437.1	439.1
80°	81.7	80.7	104.5	194.5	453.3	688.5	527.6	259.8	142.1	102.9	97.6
82.5°	29.3	32.9	42.2	53.9	120.1	214.0	151.0	72.8	53.4	39.5	38.2
85°	12.9	12.6	18.2	21.5	30.1	40.0	35.4	30.9	27.1	18.0	16.7
87.5°	2.8	2.8	4.3	3.3	5.3	5.3	6.6	7.8	8.1	5.3	4.3
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)