

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: P450596

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4799 lumens
Efficiency: N/A
Efficacy: 109.1 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



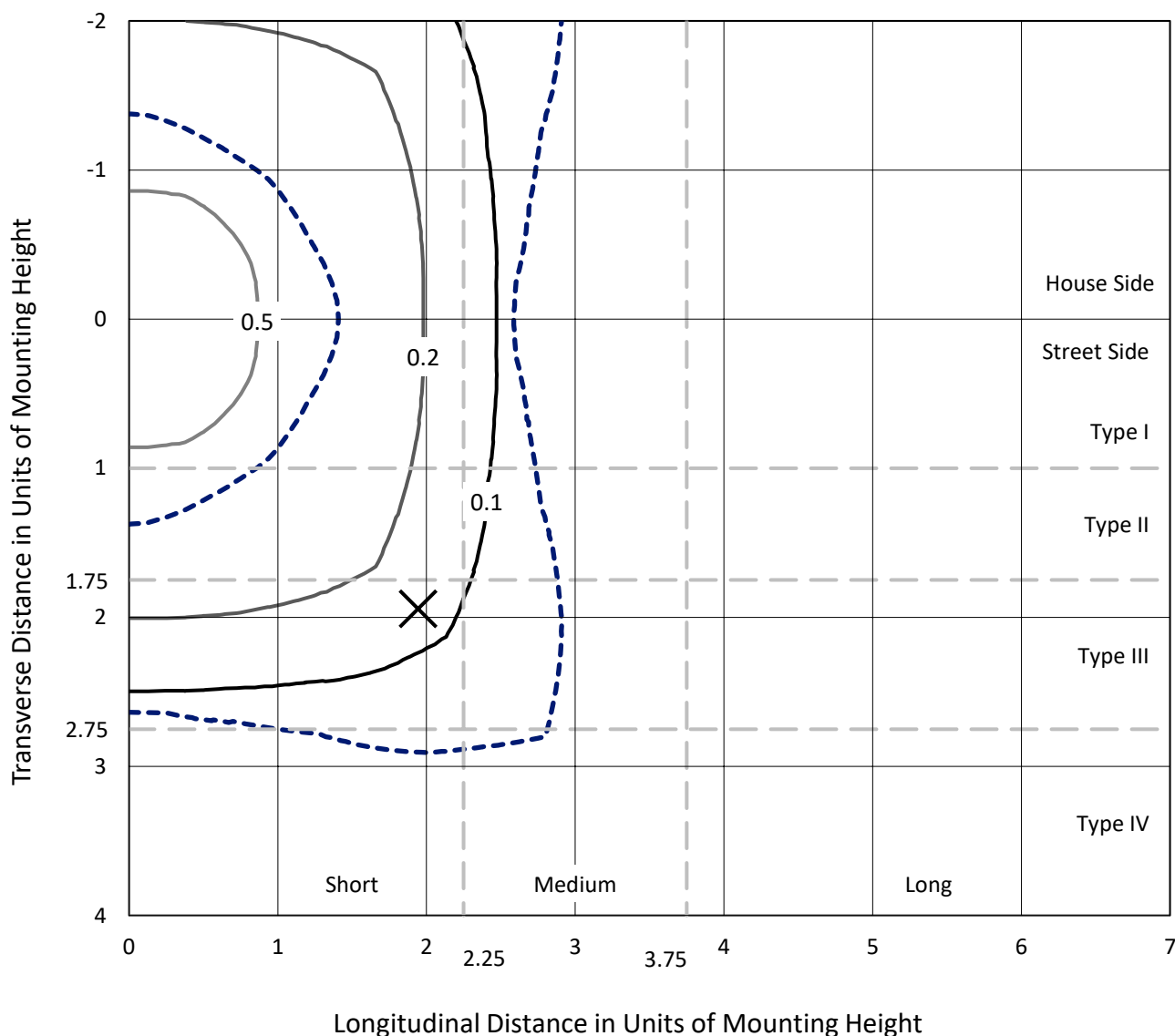
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



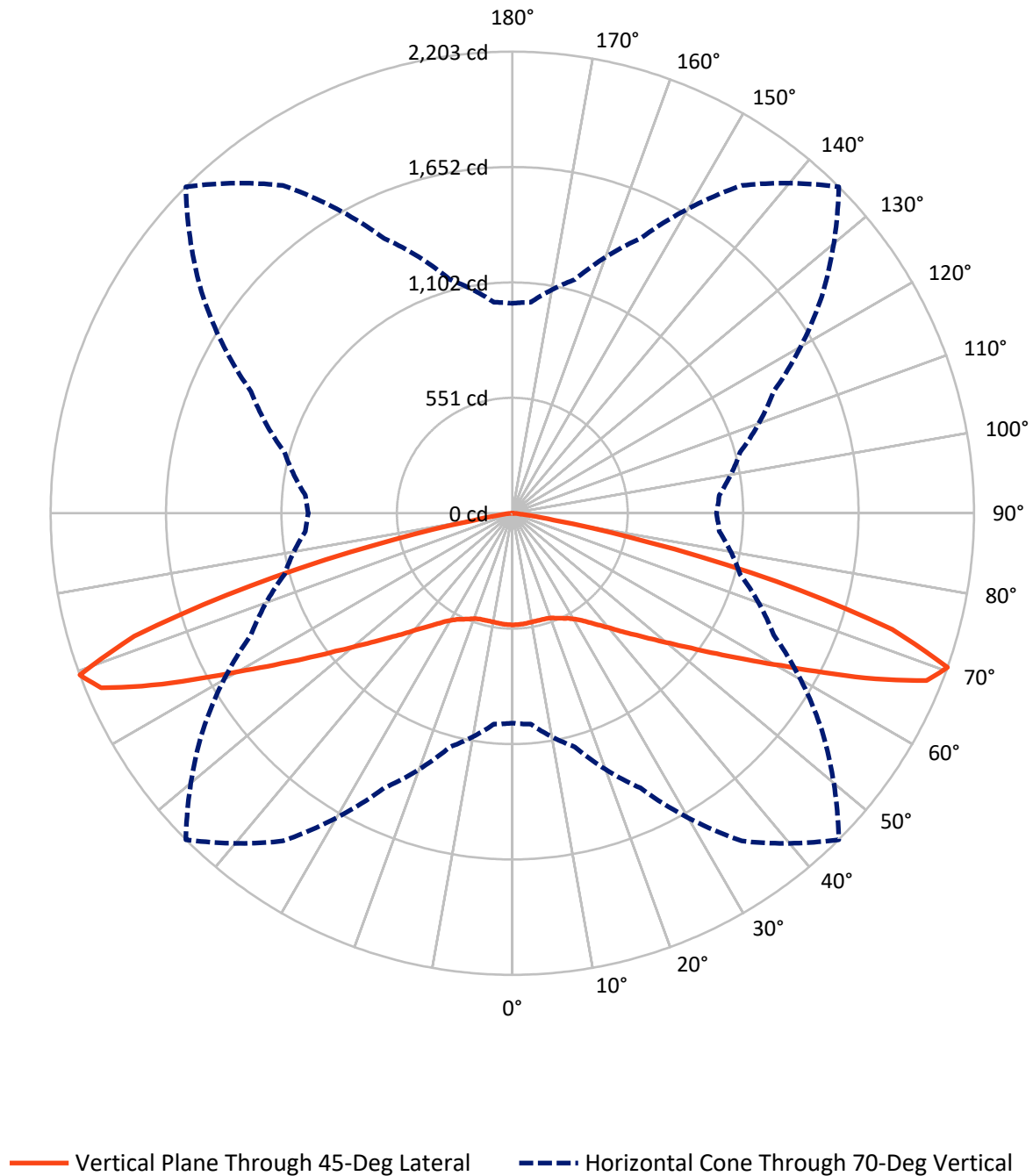
Based on 25 foot mounting height. Maximum calculated value = 0.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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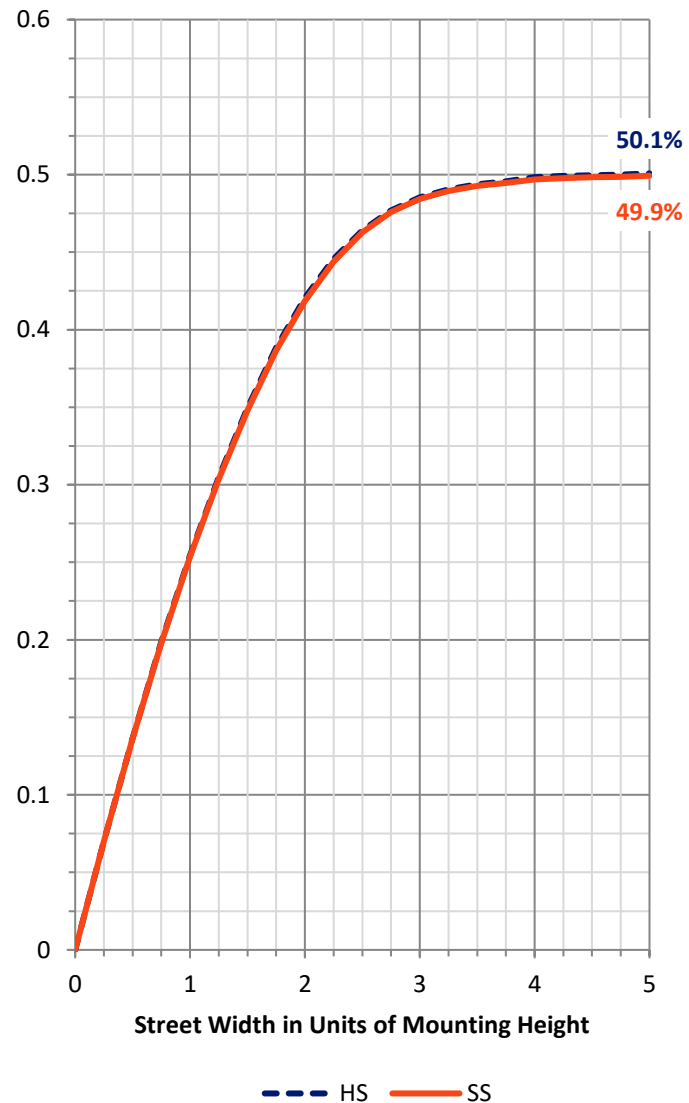
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.5	0.0	2399.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2399.5	0.0	2399.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4799.0	0.0	4799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.1
10°-20°	148.3	3.1
20°-30°	253.6	5.3
30°-40°	402.6	8.4
40°-50°	649.4	13.5
50°-60°	1056.6	22.0
60°-70°	1531.7	31.9
70°-80°	679.4	14.2
80°-90°	26.8	0.6
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°	4799.0	100.0
0°-180°	4799.0	100.0

Coefficient of Utilization



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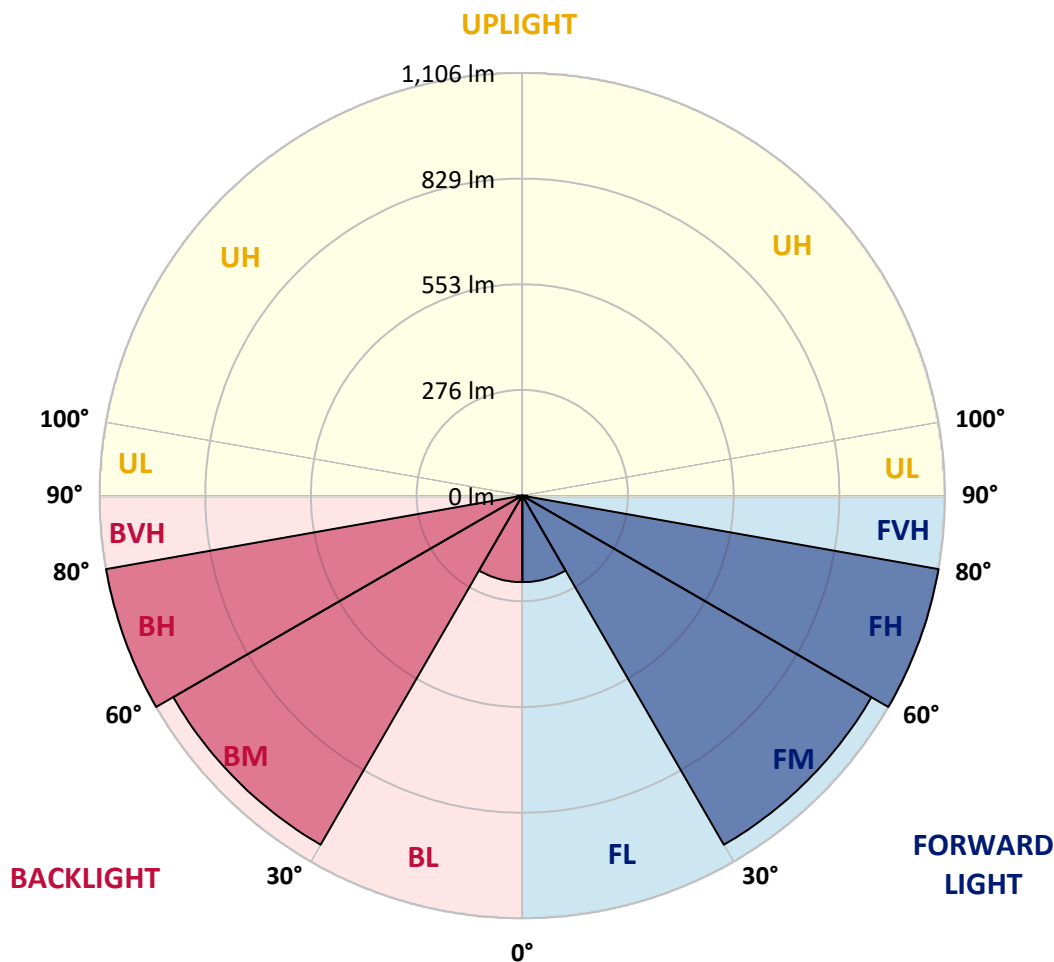
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.2	4.7			
FM	(30°-60°)	1054.3	22.0			
FH	(60°-80°)	1105.6	23.0			G1/1800
FVH	(80°-90°)	13.4	0.3			G1/100
BL	(0°-30°)	226.2	4.7	B1/500		
BM	(30°-60°)	1054.3	22.0	B2/2500		
BH	(60°-80°)	1105.6	23.0	B3/2500		G1/1800
BVH	(80°-90°)	13.4	0.3			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°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
2.5°	532.9	533.4	532.7	532.1	531.9	531.9	531.6	531.9	533.4	533.7	532.9
5°	531.4	531.9	531.6	531.1	530.9	530.9	530.6	530.4	531.6	532.1	531.9
7.5°	529.4	529.6	529.4	529.1	529.4	529.1	528.4	527.8	528.9	528.9	528.6
10°	525.8	526.3	526.1	526.3	526.8	526.8	525.8	524.8	525.1	524.6	524.6
12.5°	521.5	522.3	522.5	523.5	524.8	526.3	524.1	521.8	521.3	521.0	520.8
15°	518.7	519.5	520.5	521.5	523.8	527.1	523.8	520.3	519.2	518.2	517.7
17.5°	518.0	519.0	520.5	522.0	525.1	528.4	525.6	522.0	519.5	518.0	517.5
20°	520.0	520.8	523.0	525.8	530.1	533.4	530.6	526.8	523.0	520.8	520.0
22.5°	524.1	525.3	528.1	533.2	539.2	544.0	540.2	533.9	527.8	524.8	523.8
25°	532.9	533.9	537.2	544.0	551.1	555.7	551.6	544.3	535.9	531.9	530.6
27.5°	546.3	547.8	551.4	559.5	565.3	567.8	565.0	560.0	553.9	549.6	548.6
30°	565.3	567.1	572.4	581.0	584.8	586.3	585.0	581.7	577.4	572.9	571.9
32.5°	590.8	591.8	597.9	606.0	609.5	610.0	608.5	607.0	599.9	592.3	591.8
35°	619.4	621.2	628.5	638.1	641.4	641.7	638.6	636.4	628.0	621.9	621.9
37.5°	657.3	658.1	665.2	676.1	679.6	678.6	677.1	675.0	666.2	658.4	658.6
40°	701.9	703.4	709.4	722.1	722.1	720.8	721.8	720.3	711.5	703.9	704.1
42.5°	754.7	755.5	762.8	776.2	775.2	772.7	773.7	771.7	766.1	757.5	754.5
45°	811.1	814.2	826.8	839.7	837.7	829.6	833.6	833.1	828.1	815.2	815.9
47.5°	879.2	884.2	896.4	911.8	909.5	896.9	901.4	904.4	897.4	883.2	880.7
50°	955.8	959.1	977.0	991.5	989.4	976.0	986.4	986.9	969.2	949.2	949.2
52.5°	1037.5	1040.8	1065.1	1087.6	1088.8	1069.4	1077.7	1077.2	1048.4	1022.1	1017.0
55°	1129.0	1130.6	1161.9	1195.1	1202.1	1183.2	1184.2	1174.1	1136.6	1106.0	1103.2
57.5°	1223.6	1229.2	1263.9	1306.8	1327.8	1316.2	1310.9	1283.8	1247.7	1212.5	1210.7
60°	1328.3	1328.6	1373.6	1424.5	1466.9	1474.8	1453.0	1416.9	1370.1	1323.5	1321.5
62.5°	1400.9	1411.8	1468.7	1554.7	1630.8	1674.8	1617.4	1541.6	1449.5	1374.4	1366.8
65°	1415.9	1423.2	1509.9	1655.6	1811.2	1906.0	1773.2	1611.9	1454.8	1354.6	1349.6
67.5°	1295.2	1303.1	1419.9	1643.5	1937.6	2132.1	1874.4	1578.0	1364.8	1240.8	1231.0
70°	1001.8	1010.7	1155.1	1446.7	1909.6	2203.2	1802.3	1376.4	1125.5	991.7	973.7
72.5°	532.7	565.3	688.7	993.0	1549.9	1896.9	1477.8	1004.4	725.9	593.4	569.6
75°	194.5	198.5	267.3	440.3	901.7	1300.8	936.3	479.0	275.4	212.7	201.8
77.5°	80.4	80.2	88.0	133.0	327.5	666.2	365.5	140.6	87.8	81.2	80.2
80°	47.5	47.5	52.4	55.4	86.2	201.1	96.4	62.7	52.6	48.1	48.8
82.5°	21.2	22.5	33.1	34.9	41.7	55.1	46.5	40.0	34.4	23.8	21.5
85°	11.6	10.1	17.5	18.2	20.0	20.5	22.0	21.8	20.0	11.6	11.9
87.5°	2.3	2.8	5.1	3.8	4.3	3.8	5.1	7.1	7.3	4.0	3.3
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)