

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: P450364

Luminaire Tested: **GALN-SA1A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450364
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-SA1A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3857 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 33
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



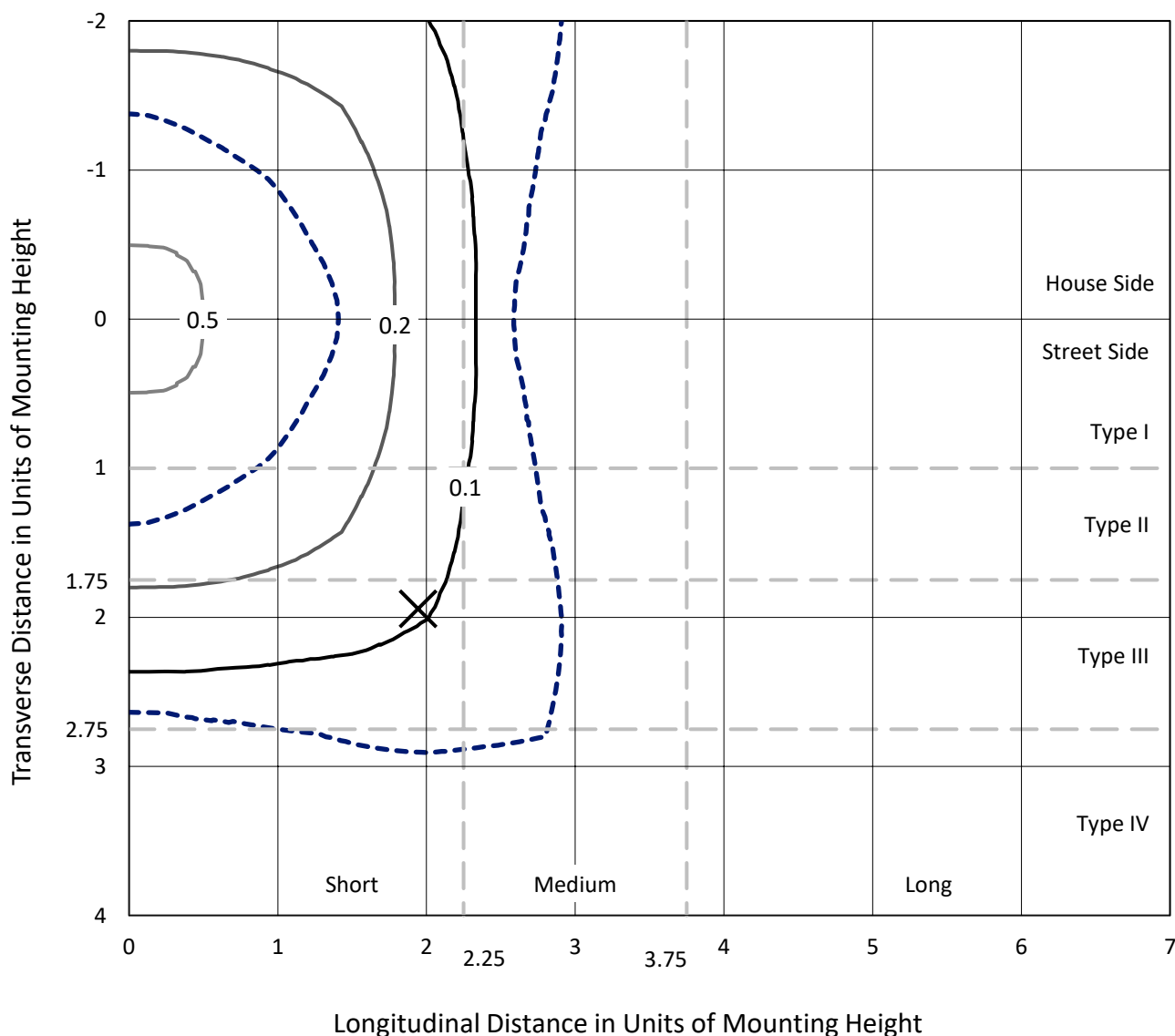
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



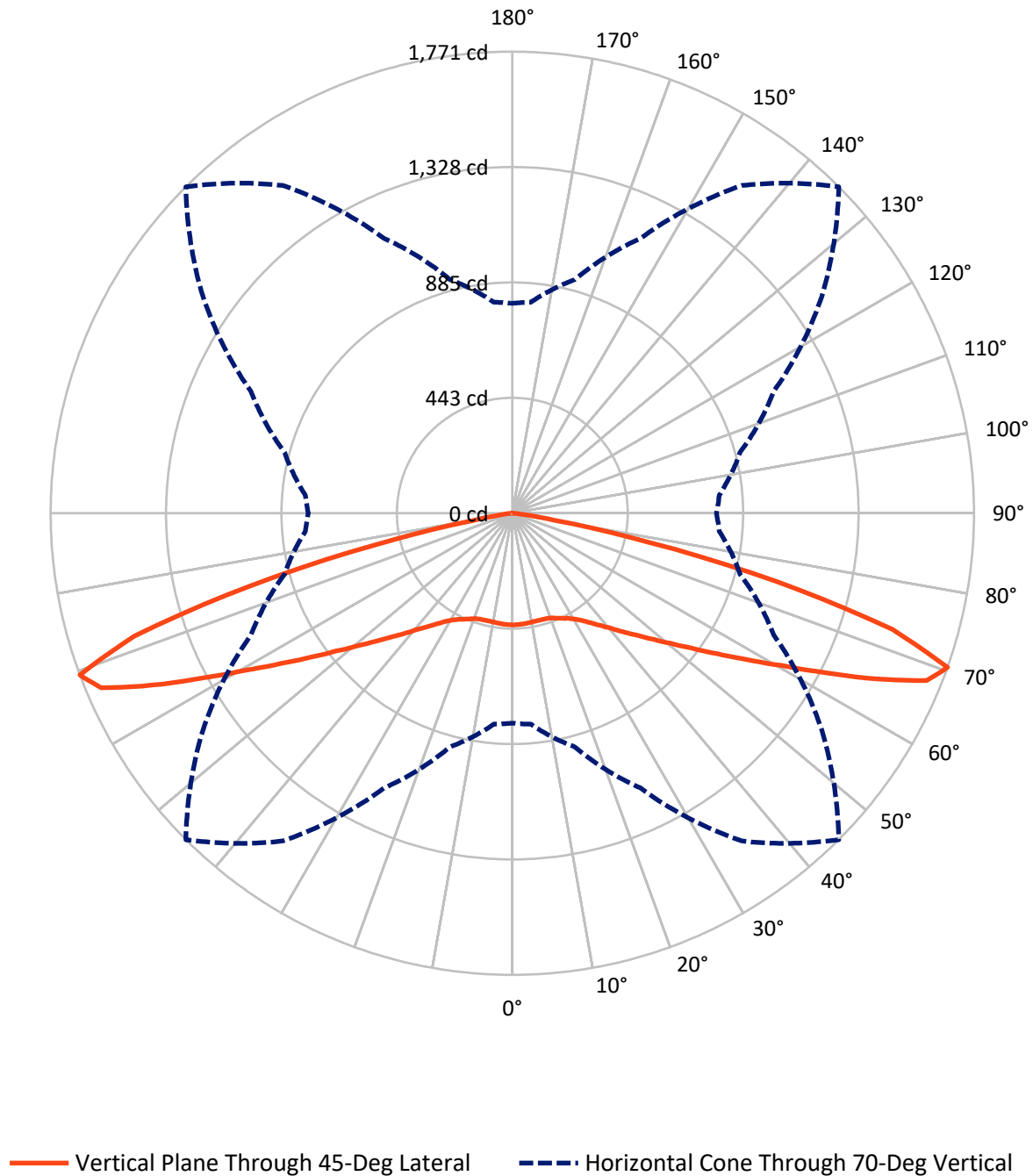
Based on 25 foot mounting height. Maximum calculated value = 0.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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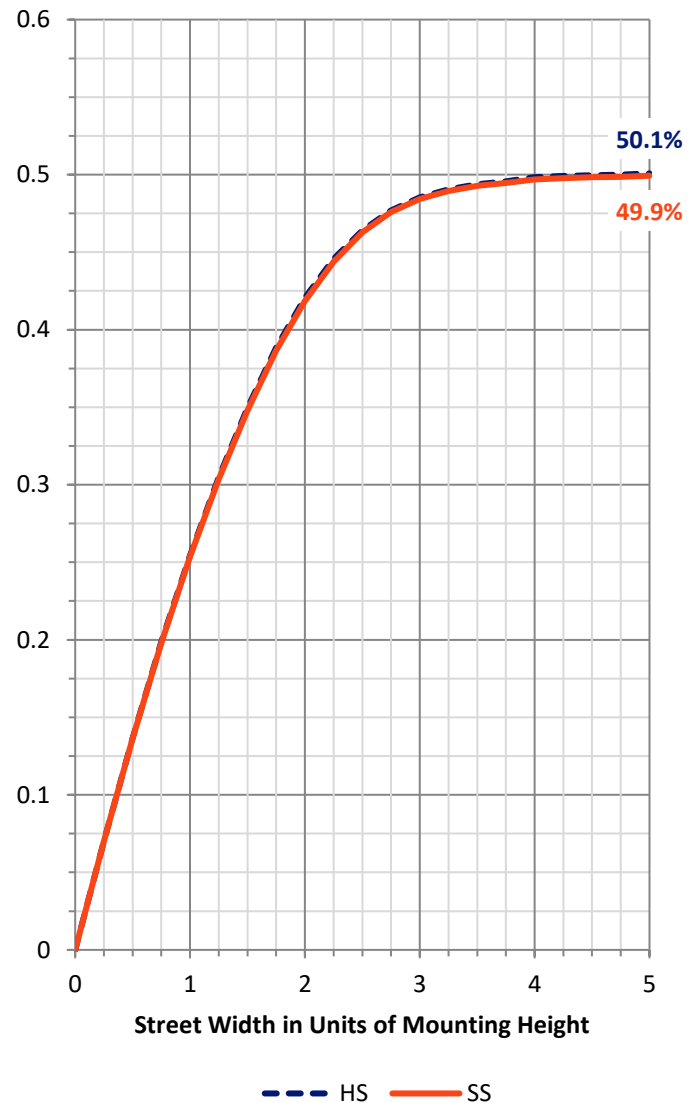
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.5	0.0	1928.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1928.5	0.0	1928.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3857.0	0.0	3857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.1
10°-20°	119.2	3.1
20°-30°	203.8	5.3
30°-40°	323.5	8.4
40°-50°	521.9	13.5
50°-60°	849.2	22.0
60°-70°	1231.1	31.9
70°-80°	546.0	14.2
80°-90°	21.5	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°	3857.0	100.0
0°-180°	3857.0	100.0

Coefficient of Utilization



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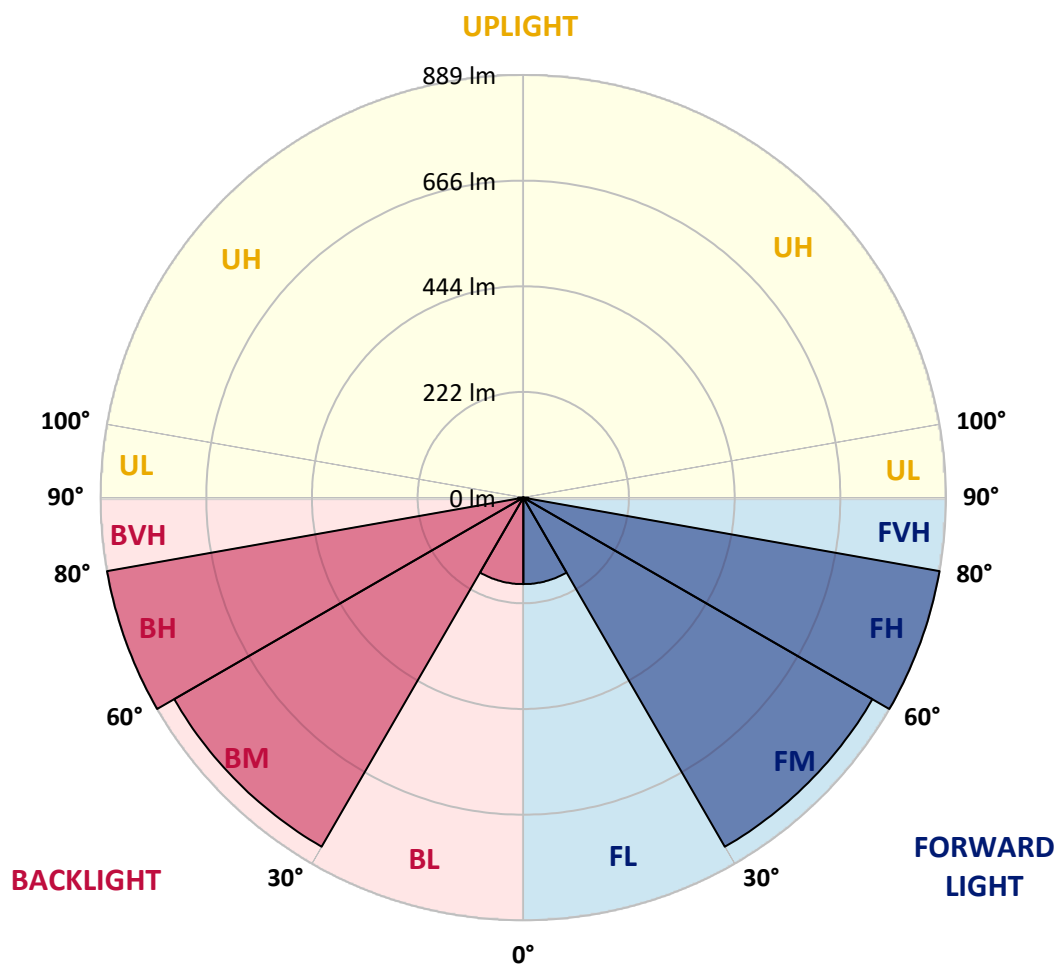
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.8	4.7			
FM	(30°-60°)	847.3	22.0			
FH	(60°-80°)	888.6	23.0			G1/1800
FVH	(80°-90°)	10.8	0.3			G1/100
BL	(0°-30°)	181.8	4.7	B1/500		
BM	(30°-60°)	847.3	22.0	B1/1000		
BH	(60°-80°)	888.6	23.0	B2/1000		G1/1800
BVH	(80°-90°)	10.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
2.5°	428.3	428.7	428.1	427.7	427.5	427.5	427.3	427.5	428.7	428.9	428.3
5°	427.1	427.5	427.3	426.9	426.7	426.7	426.5	426.3	427.3	427.7	427.5
7.5°	425.5	425.7	425.5	425.3	425.5	425.3	424.6	424.2	425.0	425.0	424.8
10°	422.6	423.0	422.8	423.0	423.4	423.4	422.6	421.8	422.0	421.6	421.6
12.5°	419.2	419.8	420.0	420.8	421.8	423.0	421.2	419.4	419.0	418.7	418.5
15°	416.9	417.5	418.3	419.2	421.0	423.6	421.0	418.1	417.3	416.5	416.1
17.5°	416.3	417.1	418.3	419.6	422.0	424.6	422.4	419.6	417.5	416.3	415.9
20°	417.9	418.5	420.4	422.6	426.1	428.7	426.5	423.4	420.4	418.5	417.9
22.5°	421.2	422.2	424.4	428.5	433.4	437.2	434.2	429.1	424.2	421.8	421.0
25°	428.3	429.1	431.8	437.2	442.9	446.6	443.3	437.4	430.7	427.5	426.5
27.5°	439.1	440.3	443.1	449.6	454.3	456.4	454.1	450.1	445.2	441.7	440.9
30°	454.3	455.7	460.0	466.9	470.0	471.2	470.2	467.5	464.1	460.4	459.6
32.5°	474.9	475.7	480.5	487.0	489.9	490.3	489.1	487.9	482.2	476.1	475.7
35°	497.8	499.2	505.1	512.9	515.5	515.7	513.3	511.4	504.7	499.9	499.9
37.5°	528.3	528.9	534.6	543.4	546.2	545.4	544.2	542.5	535.4	529.1	529.3
40°	564.1	565.3	570.2	580.4	580.4	579.3	580.1	578.9	571.8	565.7	565.9
42.5°	606.6	607.2	613.1	623.9	623.0	621.0	621.8	620.2	615.7	608.8	606.4
45°	651.9	654.3	664.5	674.9	673.2	666.7	670.0	669.6	665.5	655.2	655.8
47.5°	706.6	710.7	720.4	732.8	731.0	720.8	724.5	726.9	721.2	709.8	707.8
50°	768.2	770.8	785.3	796.8	795.2	784.4	792.8	793.2	779.0	762.9	762.9
52.5°	833.8	836.5	856.0	874.1	875.1	859.4	866.2	865.8	842.6	821.4	817.4
55°	907.4	908.6	933.8	960.5	966.2	950.9	951.7	943.6	913.5	888.9	886.7
57.5°	983.4	987.9	1015.8	1050.3	1067.2	1057.8	1053.6	1031.8	1002.8	974.5	973.1
60°	1067.6	1067.8	1104.0	1144.8	1179.0	1185.3	1167.8	1138.7	1101.1	1063.7	1062.1
62.5°	1125.9	1134.7	1180.4	1249.5	1310.7	1346.1	1299.9	1239.0	1165.0	1104.6	1098.5
65°	1137.9	1143.8	1213.6	1330.6	1455.7	1531.9	1425.2	1295.5	1169.2	1088.7	1084.7
67.5°	1041.0	1047.3	1141.2	1320.9	1557.3	1713.6	1506.5	1268.2	1096.9	997.3	989.3
70°	805.2	812.3	928.4	1162.7	1534.7	1770.7	1448.5	1106.2	904.6	797.0	782.6
72.5°	428.1	454.3	553.5	798.1	1245.7	1524.6	1187.7	807.2	583.4	476.9	457.8
75°	156.3	159.6	214.9	353.9	724.7	1045.4	752.5	385.0	221.4	171.0	162.2
77.5°	64.6	64.4	70.7	106.9	263.2	535.4	293.7	113.0	70.5	65.3	64.4
80°	38.2	38.2	42.1	44.5	69.3	161.6	77.4	50.4	42.3	38.6	39.2
82.5°	17.1	18.1	26.6	28.1	33.5	44.3	37.4	32.1	27.6	19.1	17.3
85°	9.4	8.1	14.0	14.6	16.1	16.5	17.7	17.5	16.1	9.4	9.6
87.5°	1.8	2.2	4.1	3.0	3.5	3.0	4.1	5.7	5.9	3.3	2.6
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)