

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: P450365

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3837 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

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

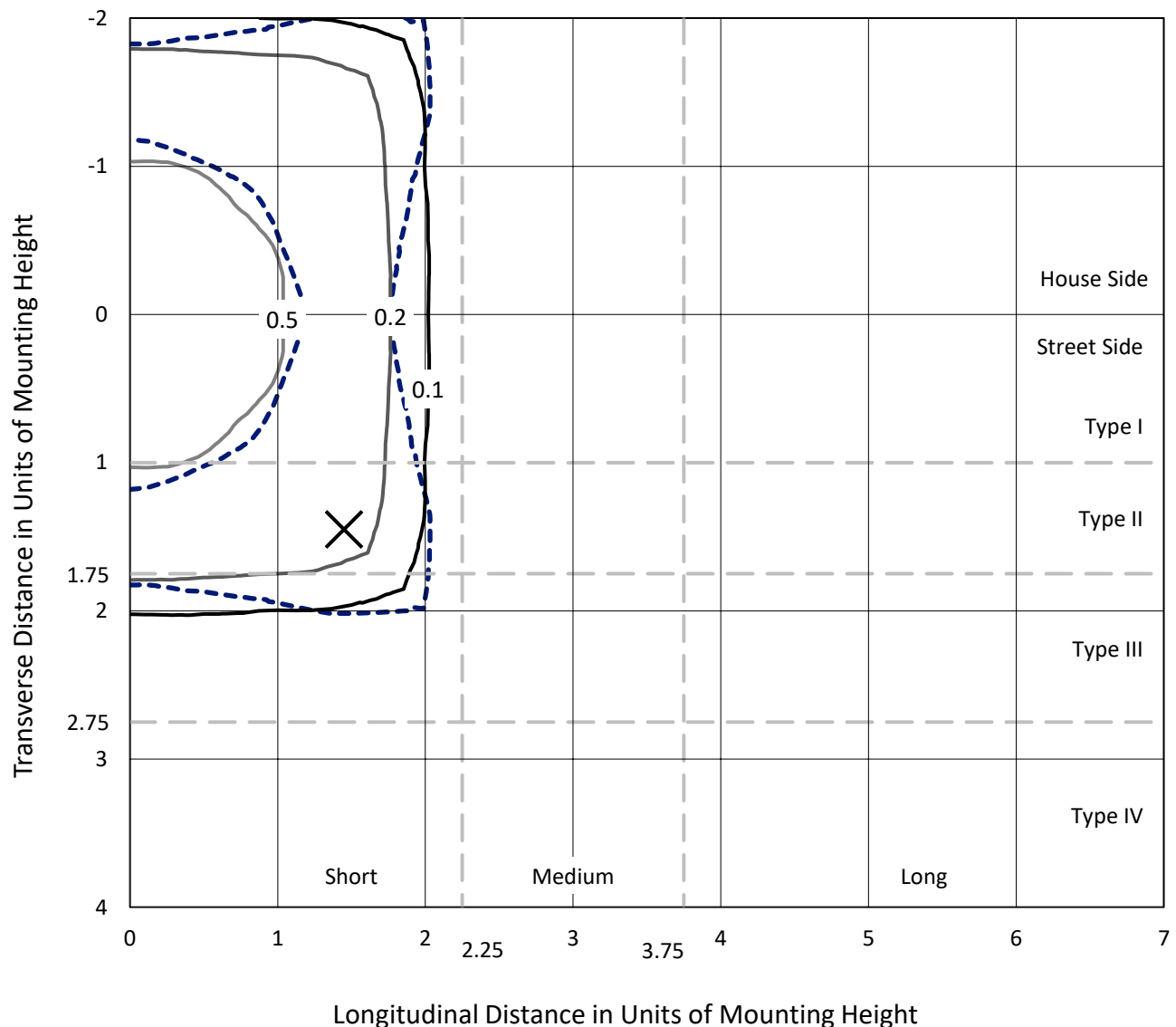


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

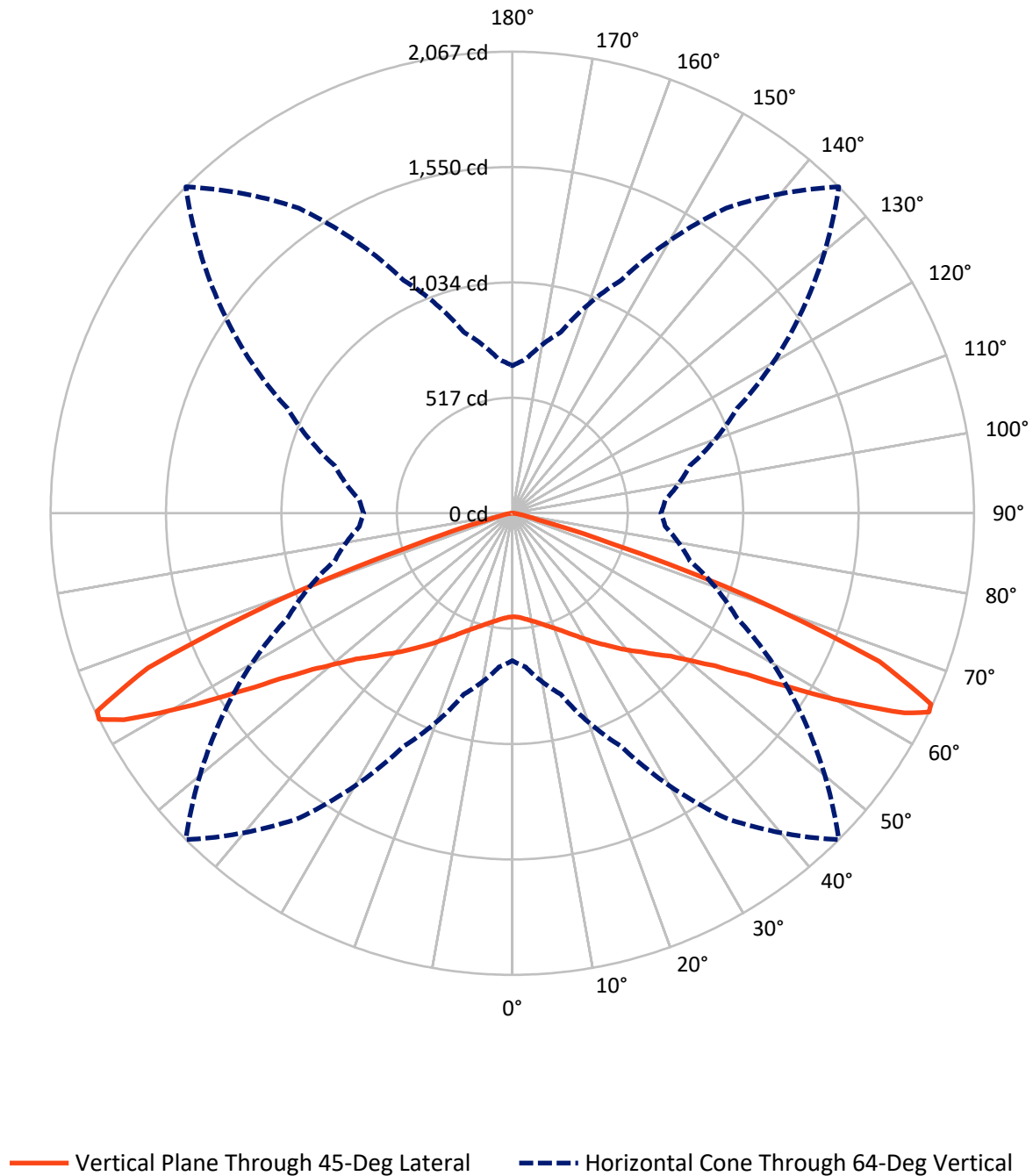


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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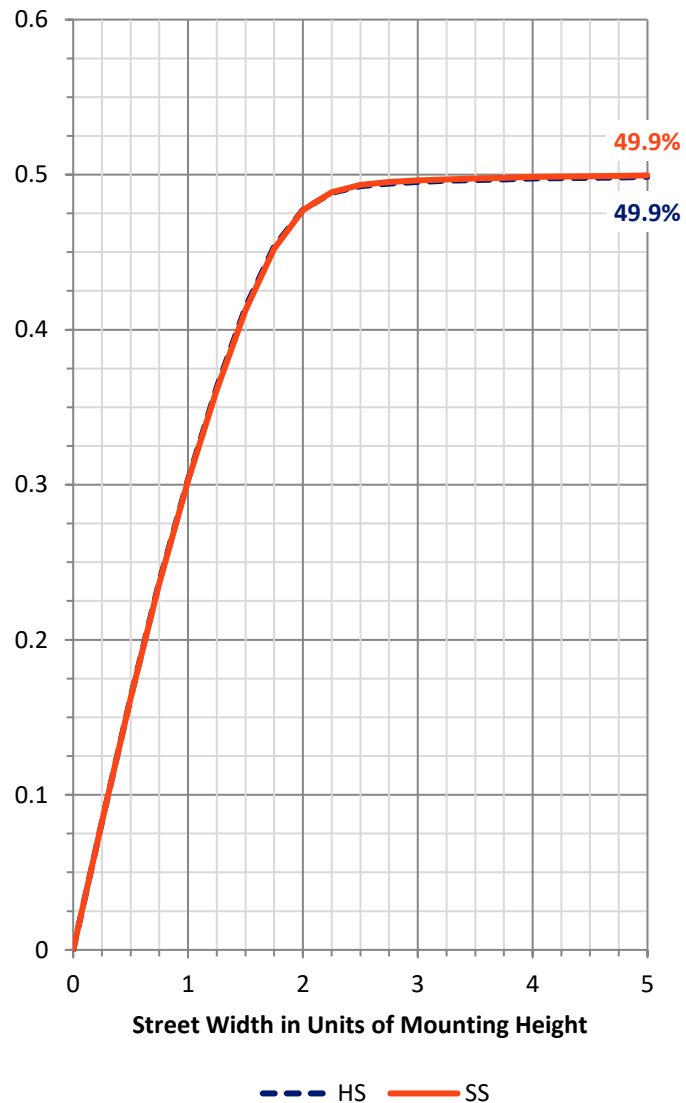
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1918.5	0.0	1918.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1918.5	0.0	1918.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3837.0	0.0	3837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.2
10°-20°	147.0	3.8
20°-30°	277.7	7.2
30°-40°	459.9	12.0
40°-50°	718.0	18.7
50°-60°	1110.1	28.9
60°-70°	957.2	24.9
70°-80°	108.5	2.8
80°-90°	13.0	0.3
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°	3837.0	100.0
0°-180°	3837.0	100.0

Coefficient of Utilization



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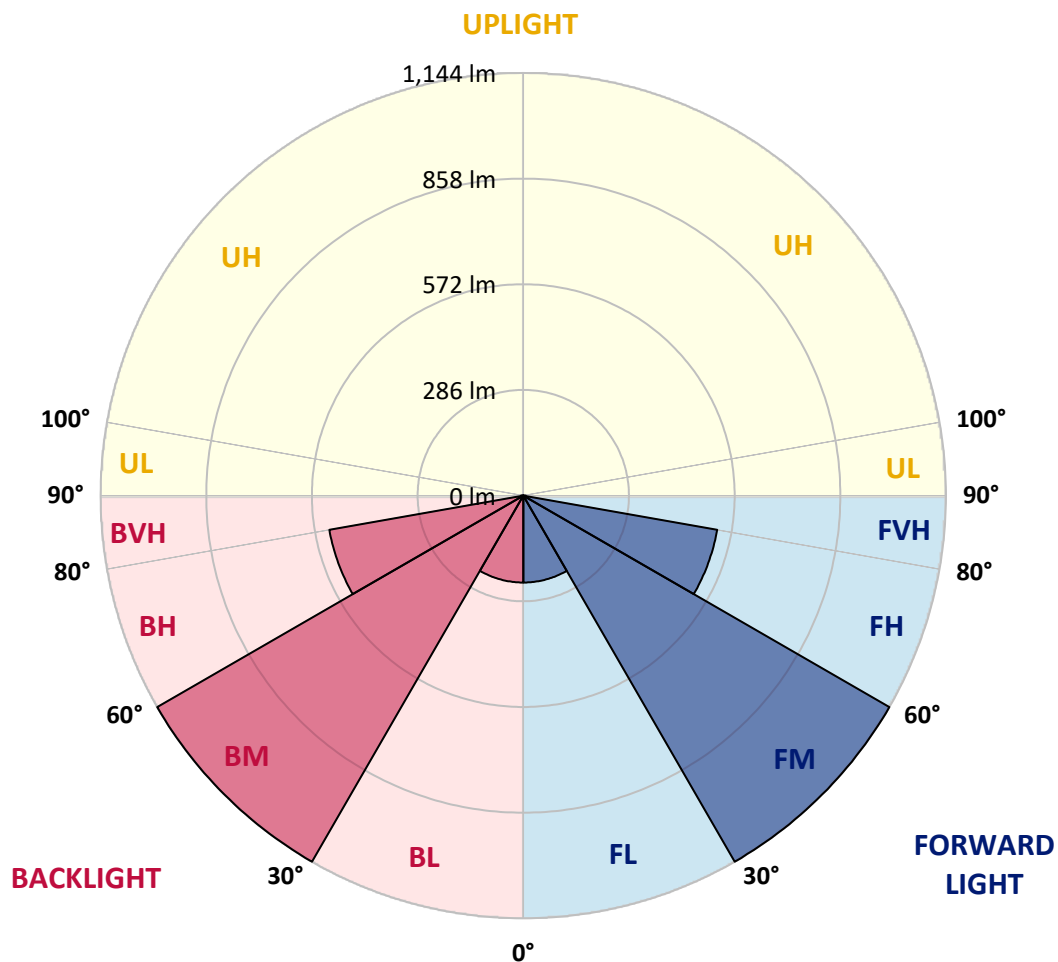
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.1	6.1			
FM	(30°-60°)	1144.0	29.8			
FH	(60°-80°)	532.8	13.9			G0/660
FVH	(80°-90°)	6.5	0.2			G0/10
BL	(0°-30°)	235.1	6.1	B1/500		
BM	(30°-60°)	1144.0	29.8	B2/2500		
BH	(60°-80°)	532.8	13.9	B2/1000		G0/660
BVH	(80°-90°)	6.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8
2.5°	465.6	466.6	465.8	465.6	465.4	465.4	465.4	465.6	466.4	467.0	466.6
5°	471.5	472.3	471.9	471.7	471.5	471.3	471.3	471.1	471.7	471.7	471.5
7.5°	478.8	479.8	479.4	479.8	480.0	479.2	478.4	478.2	478.8	478.8	478.4
10°	488.8	489.6	489.8	490.0	490.4	489.0	487.5	487.3	487.1	486.9	486.9
12.5°	499.9	500.6	500.8	501.6	502.2	501.0	499.7	497.7	498.1	497.3	497.3
15°	512.5	513.8	513.6	514.8	516.4	515.4	513.4	511.5	510.5	509.9	509.9
17.5°	528.0	528.8	528.4	529.6	531.6	531.4	528.8	527.0	524.7	523.5	523.5
20°	546.3	547.7	548.1	548.1	549.9	549.1	548.3	545.5	543.8	542.8	542.8
22.5°	567.0	567.6	568.8	570.1	571.9	570.9	569.6	567.0	565.6	564.0	564.0
25°	590.4	591.0	594.0	596.7	597.3	596.1	595.5	593.0	589.8	588.5	588.5
27.5°	617.6	618.8	622.9	625.3	625.3	623.9	625.9	620.7	616.8	616.4	616.4
30°	651.8	652.6	656.0	658.5	657.2	655.8	657.8	652.2	645.2	643.6	643.6
32.5°	685.5	688.3	691.4	696.7	692.4	690.2	691.6	685.1	677.4	675.1	675.1
35°	721.7	723.7	729.4	733.9	730.0	727.6	732.0	724.3	713.9	713.5	713.5
37.5°	761.7	763.5	770.8	775.5	772.7	768.4	773.7	766.0	753.2	750.5	750.5
40°	803.4	807.2	816.4	821.2	816.6	812.5	818.2	811.3	796.4	790.6	790.6
42.5°	850.1	856.2	869.4	871.8	862.9	859.7	868.8	863.9	846.9	844.6	844.6
45°	904.8	908.4	924.7	930.0	917.6	913.5	930.2	926.5	906.8	902.5	902.5
47.5°	965.9	969.4	986.3	994.2	978.5	978.7	1000.5	998.3	977.1	975.1	975.1
50°	1038.3	1039.1	1062.5	1071.4	1055.8	1056.6	1083.6	1074.7	1047.6	1047.2	1047.2
52.5°	1117.5	1118.6	1148.0	1165.3	1156.6	1158.6	1175.1	1152.3	1116.9	1114.3	1114.3
55°	1186.2	1191.3	1231.6	1277.5	1289.5	1280.9	1273.2	1217.1	1167.5	1159.8	1159.8
57.5°	1214.3	1224.2	1285.4	1371.2	1449.2	1417.5	1343.9	1242.9	1172.8	1165.3	1165.3
60°	1145.8	1156.6	1251.5	1414.3	1613.4	1559.8	1355.9	1184.2	1085.6	1073.9	1073.9
62.5°	917.6	920.6	1060.2	1312.9	1709.1	1619.7	1253.7	1013.3	879.4	874.7	874.7
64°	660.3	691.6	839.5	1151.1	1667.3	2067.0	1585.2	1110.4	823.1	687.5	665.6
65°	493.8	502.4	676.7	983.0	1593.5	1518.1	973.5	681.6	526.2	501.8	501.8
67.5°	186.6	187.6	249.8	490.0	1134.4	1158.6	529.6	287.2	207.7	200.2	200.2
70°	77.4	78.9	91.7	164.8	487.5	558.7	191.0	105.1	85.2	83.9	83.9
72.5°	56.7	57.5	61.4	73.2	150.0	183.7	81.1	61.6	55.1	54.5	54.5
75°	44.5	44.9	47.8	53.9	69.9	76.4	55.7	46.9	42.3	41.9	41.9
77.5°	33.9	35.0	37.0	41.1	46.9	50.6	41.7	36.2	32.3	31.7	31.7
80°	23.4	24.6	28.5	30.1	31.5	34.5	31.5	28.2	23.6	22.2	22.2
82.5°	14.4	15.2	19.1	20.5	19.9	22.2	22.6	20.1	14.6	13.6	13.6
85°	7.5	7.9	10.4	10.8	10.0	11.4	13.2	12.4	8.3	8.1	8.1
87.5°	1.6	1.8	2.2	2.0	2.2	2.8	4.3	4.5	2.8	2.6	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)