

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: P651661

Luminaire Tested: **GALN-SA1A-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651661
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-SA1A-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073 lumens
Efficiency: N/A
Efficacy: 123.4 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): 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

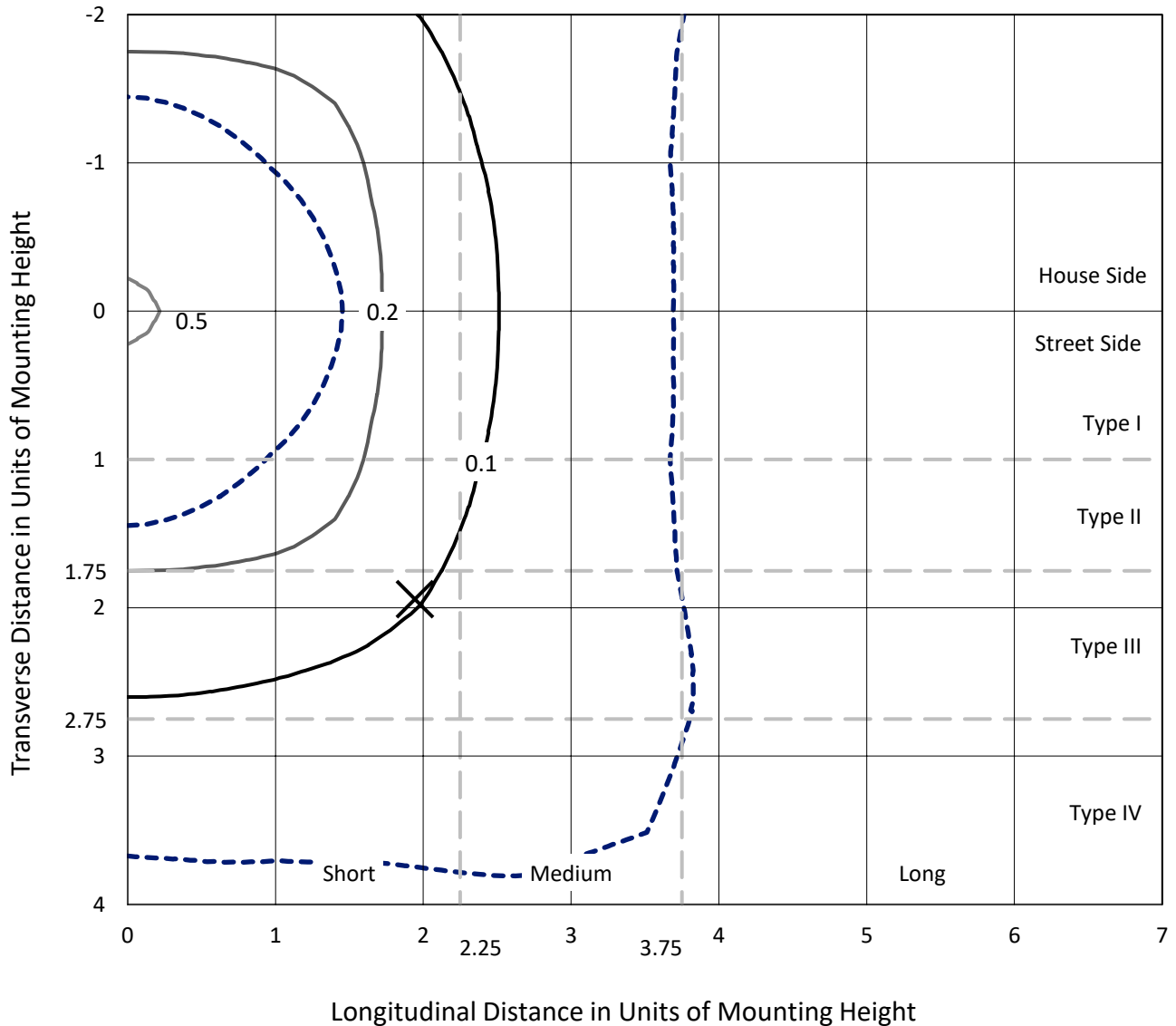




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Iso-Footcandle Lines of Horizontal Illumination

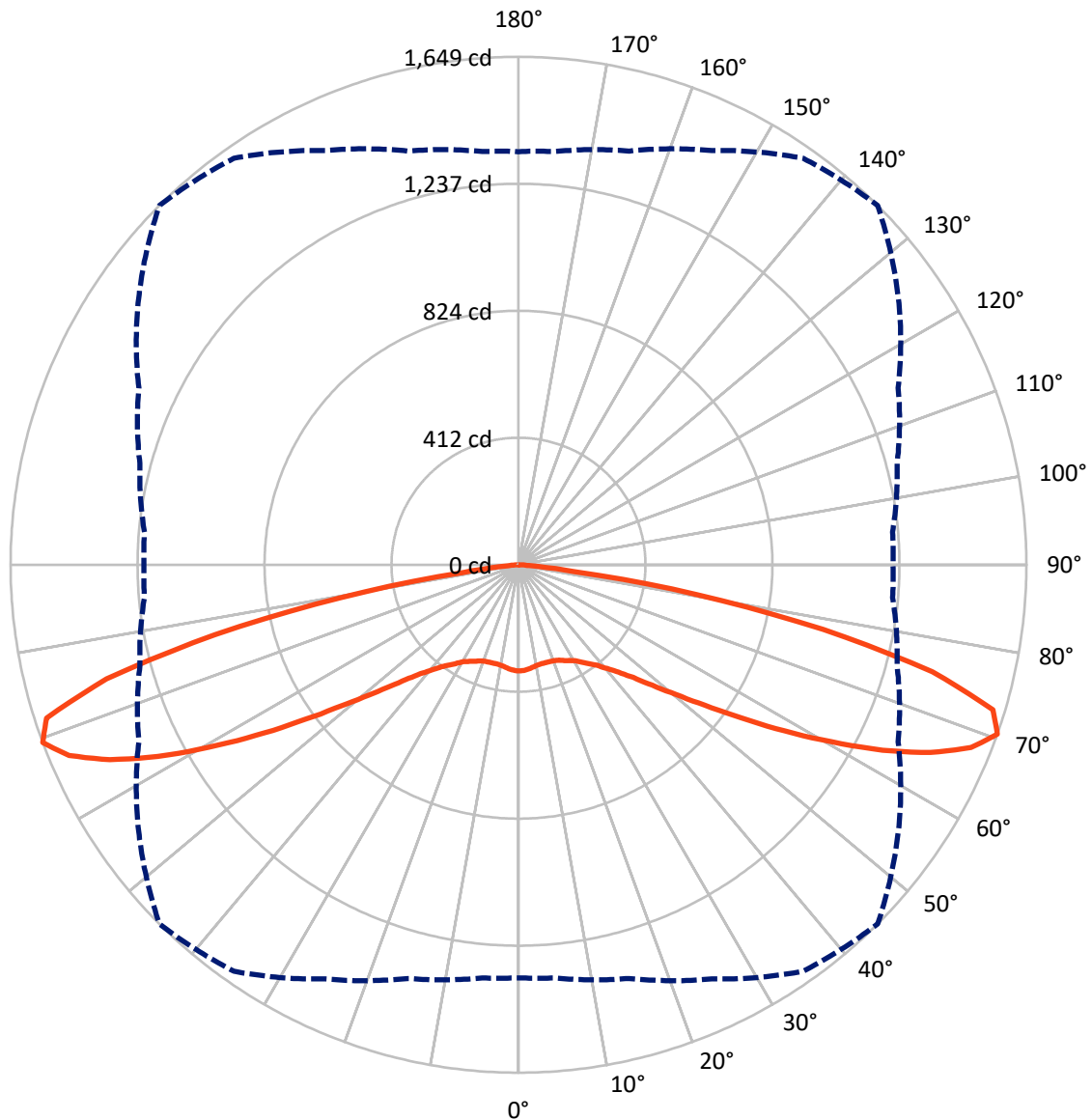
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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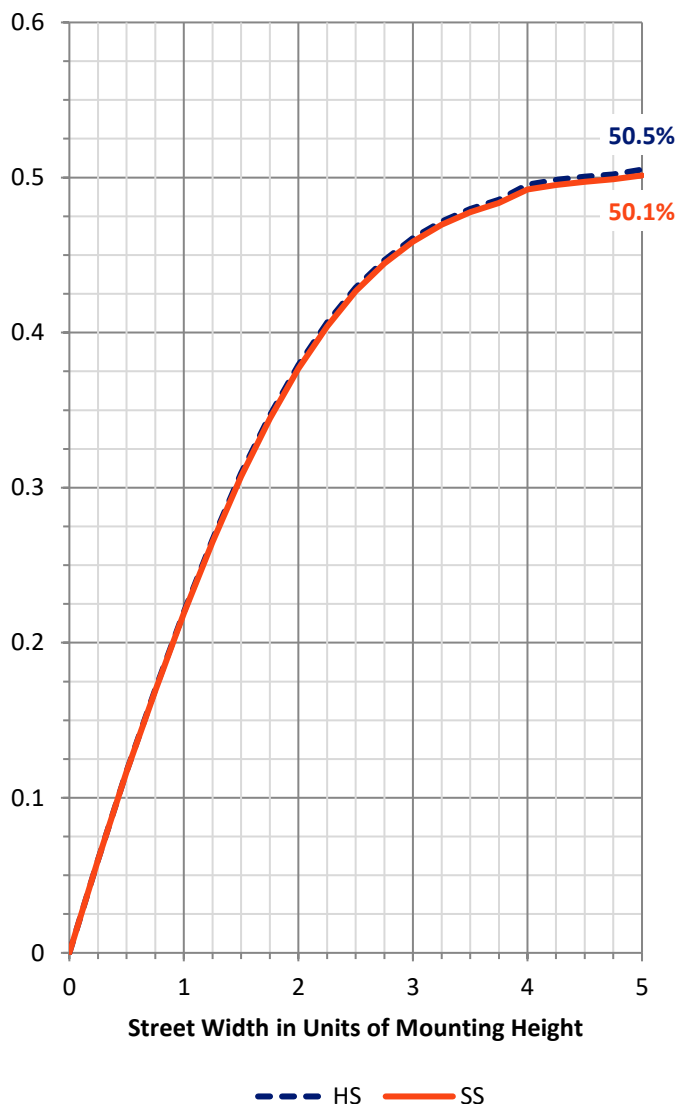
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.5	0.0	2036.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2036.5	0.0	2036.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4073.0	0.0	4073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	0.8
10°-20°	94.4	2.3
20°-30°	160.9	3.9
30°-40°	249.3	6.1
40°-50°	419.6	10.3
50°-60°	763.5	18.7
60°-70°	1292.6	31.7
70°-80°	1000.5	24.6
80°-90°	59.9	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°	4073.0	100.0
0°-180°	4073.0	100.0

Coefficient of Utilization



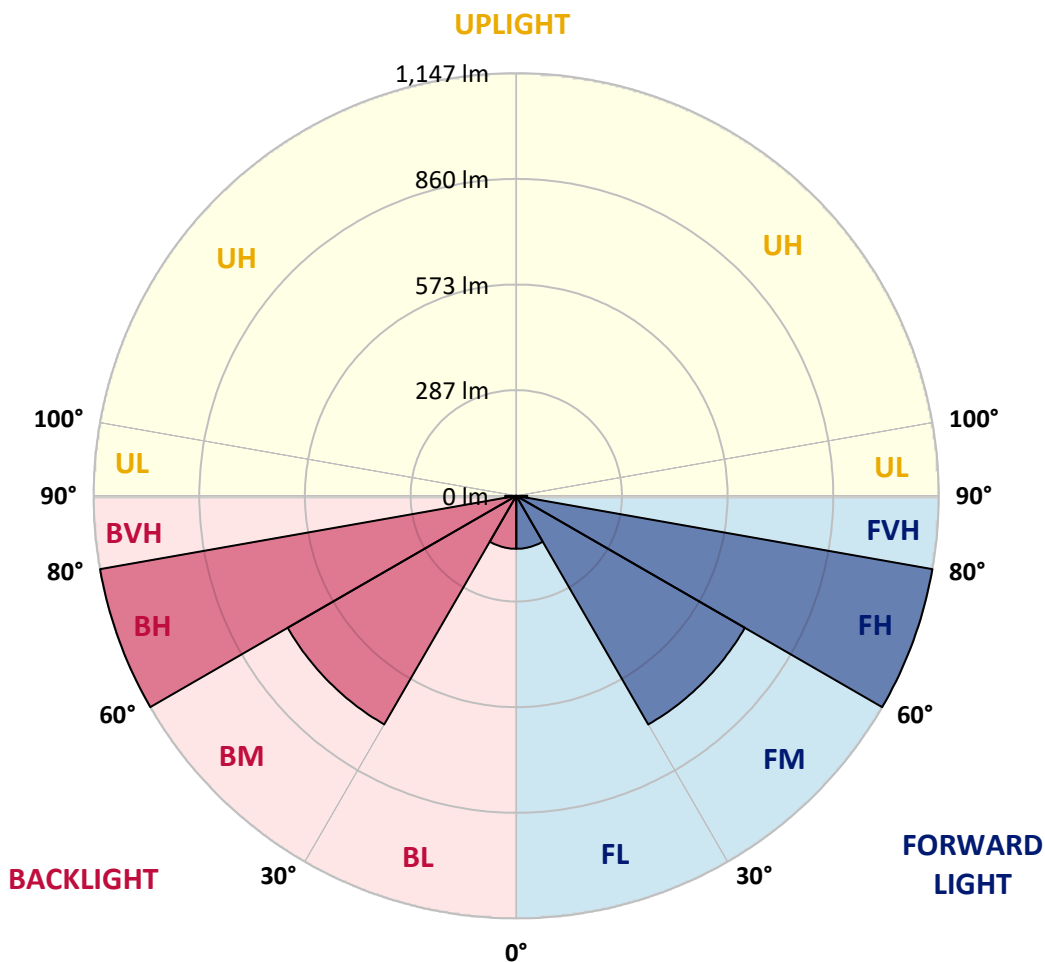
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.8	3.5			
FM (30°-60°)	716.2	17.6			
FH (60°-80°)	1146.5	28.1			G1/1800
FVH (80°-90°)	30.0	0.7			G1/100
BL (0°-30°)	143.8	3.5	B1/500		
BM (30°-60°)	716.2	17.6	B1/1000		
BH (60°-80°)	1146.5	28.1	B3/2500		G1/1800
BVH (80°-90°)	30.0	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°	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8
2.5°	344.0	344.2	344.2	343.7	343.5	343.5	343.3	343.3	344.0	344.2	344.4
5°	340.9	340.9	340.9	340.8	340.3	340.3	339.8	339.8	340.1	340.8	340.3
7.5°	336.9	337.3	337.3	336.4	335.8	335.8	335.6	335.8	336.0	336.7	336.4
10°	335.6	335.8	334.7	333.2	332.1	331.5	331.7	332.1	333.2	333.6	333.9
12.5°	336.4	336.4	334.5	332.4	330.4	329.6	329.3	330.8	332.8	334.0	334.5
15°	337.5	337.1	334.7	331.9	330.0	329.8	329.6	330.6	333.5	336.0	336.2
17.5°	338.2	337.9	335.0	331.5	330.4	330.4	330.2	331.0	334.0	337.3	337.5
20°	340.3	339.7	336.2	332.5	331.7	332.1	331.5	332.5	335.8	339.7	340.5
22.5°	344.6	344.0	340.5	336.9	336.4	336.4	336.2	337.3	340.8	344.8	345.5
25°	349.8	349.1	345.9	343.3	343.7	344.6	344.2	344.4	347.2	350.6	351.7
27.5°	356.7	355.6	352.8	350.6	352.0	352.0	352.0	351.7	353.5	356.7	357.8
30°	365.1	364.7	361.6	361.4	362.5	361.4	361.4	361.6	361.8	364.8	365.9
32.5°	376.0	375.2	373.7	373.2	376.3	377.1	374.1	371.3	372.8	375.8	376.4
35°	394.1	392.8	390.6	388.3	390.6	394.8	388.3	386.1	390.0	394.1	394.5
37.5°	418.6	418.0	414.5	410.2	410.0	414.3	407.6	407.5	414.7	419.7	420.3
40°	449.3	450.0	445.7	441.6	439.5	443.0	437.7	439.7	446.8	452.4	452.0
42.5°	492.6	490.2	483.6	479.7	477.4	476.0	474.7	477.8	485.8	491.7	496.4
45°	543.2	542.3	534.0	529.2	524.0	522.1	521.7	527.1	536.7	544.0	544.6
47.5°	600.4	598.5	593.1	588.1	586.2	583.8	581.6	585.8	595.4	600.6	602.1
50°	659.3	659.8	659.8	658.9	660.9	661.3	655.5	657.0	662.4	661.9	661.4
52.5°	726.6	729.0	740.2	741.3	750.5	756.7	746.2	740.0	738.1	726.5	727.3
55°	805.8	807.9	824.8	841.5	866.5	877.0	854.9	835.5	821.7	804.1	804.9
57.5°	904.6	905.6	921.6	953.8	993.4	1018.1	979.2	940.9	912.9	896.2	889.5
60°	1010.8	1011.9	1035.1	1074.5	1136.0	1166.1	1117.9	1055.4	1020.0	994.5	996.2
62.5°	1138.4	1142.7	1163.5	1217.8	1292.4	1326.2	1262.3	1178.6	1130.8	1099.0	1100.3
65°	1275.0	1282.3	1305.1	1364.7	1433.5	1469.9	1391.6	1295.0	1235.6	1196.7	1200.8
67.5°	1363.6	1370.1	1403.0	1468.8	1554.6	1584.7	1483.6	1371.2	1296.9	1250.5	1241.8
70°	1341.0	1346.4	1390.3	1483.6	1610.8	1648.9	1505.6	1360.0	1272.6	1219.0	1215.6
72.5°	1183.8	1172.6	1236.7	1370.7	1546.7	1610.5	1436.5	1242.1	1132.2	1077.1	1070.6
75°	784.5	808.8	903.5	1061.3	1308.5	1387.7	1226.2	997.3	858.9	813.2	806.0
77.5°	262.2	281.0	365.1	601.7	892.0	1011.1	893.4	652.2	461.5	371.7	373.4
80°	69.5	68.6	88.8	165.4	385.5	585.5	448.8	220.9	120.9	87.5	83.0
82.5°	25.0	28.0	35.9	45.8	102.2	182.0	128.4	62.0	45.4	33.6	32.5
85°	10.9	10.8	15.5	18.2	25.6	34.0	30.1	26.2	23.0	15.3	14.2
87.5°	2.4	2.4	3.6	2.8	4.5	4.5	5.6	6.6	6.9	4.5	3.6
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)