

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: P651655

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651655
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-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081.4 lumens
Efficiency: N/A
Efficacy: 123.7 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

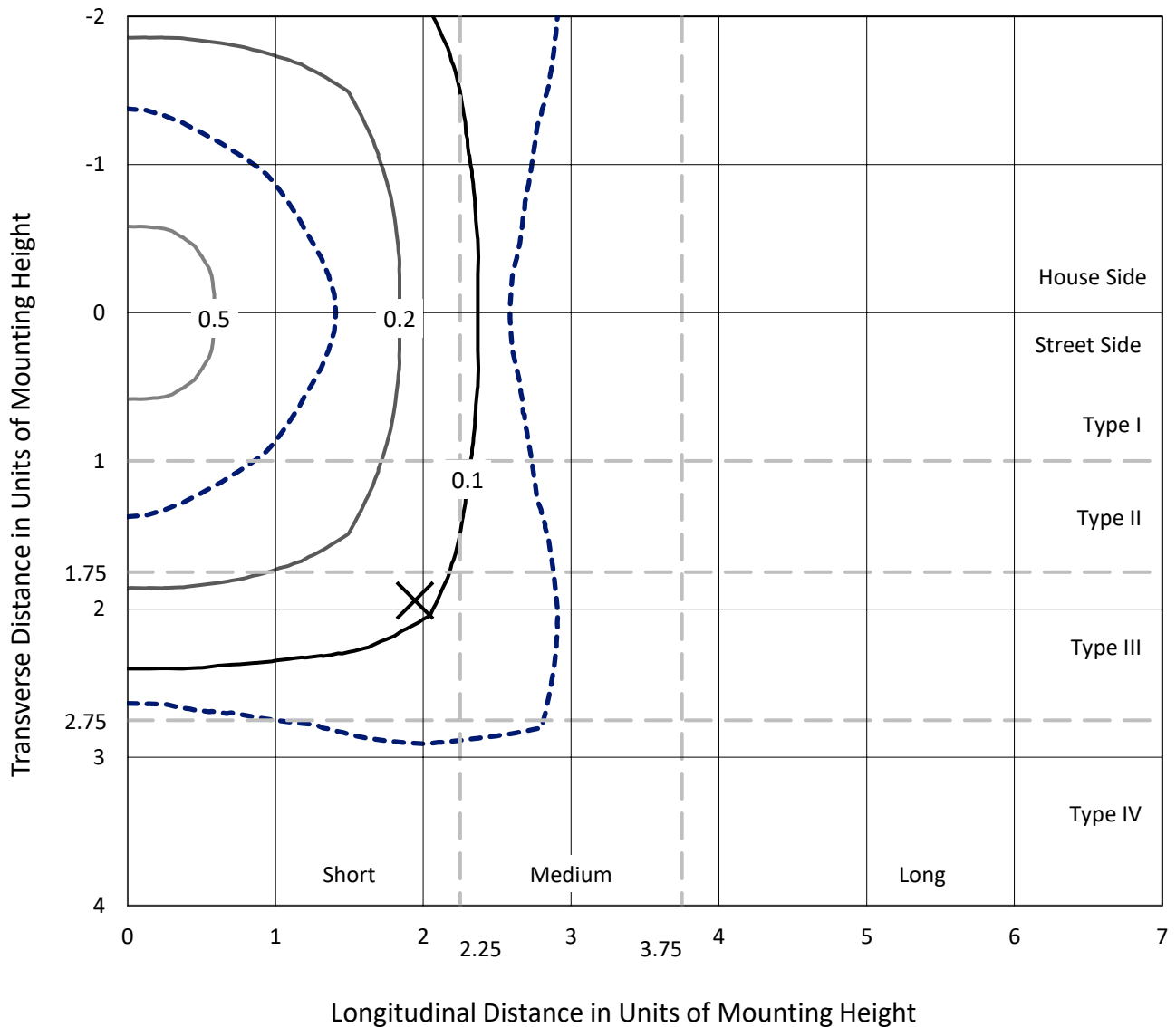
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

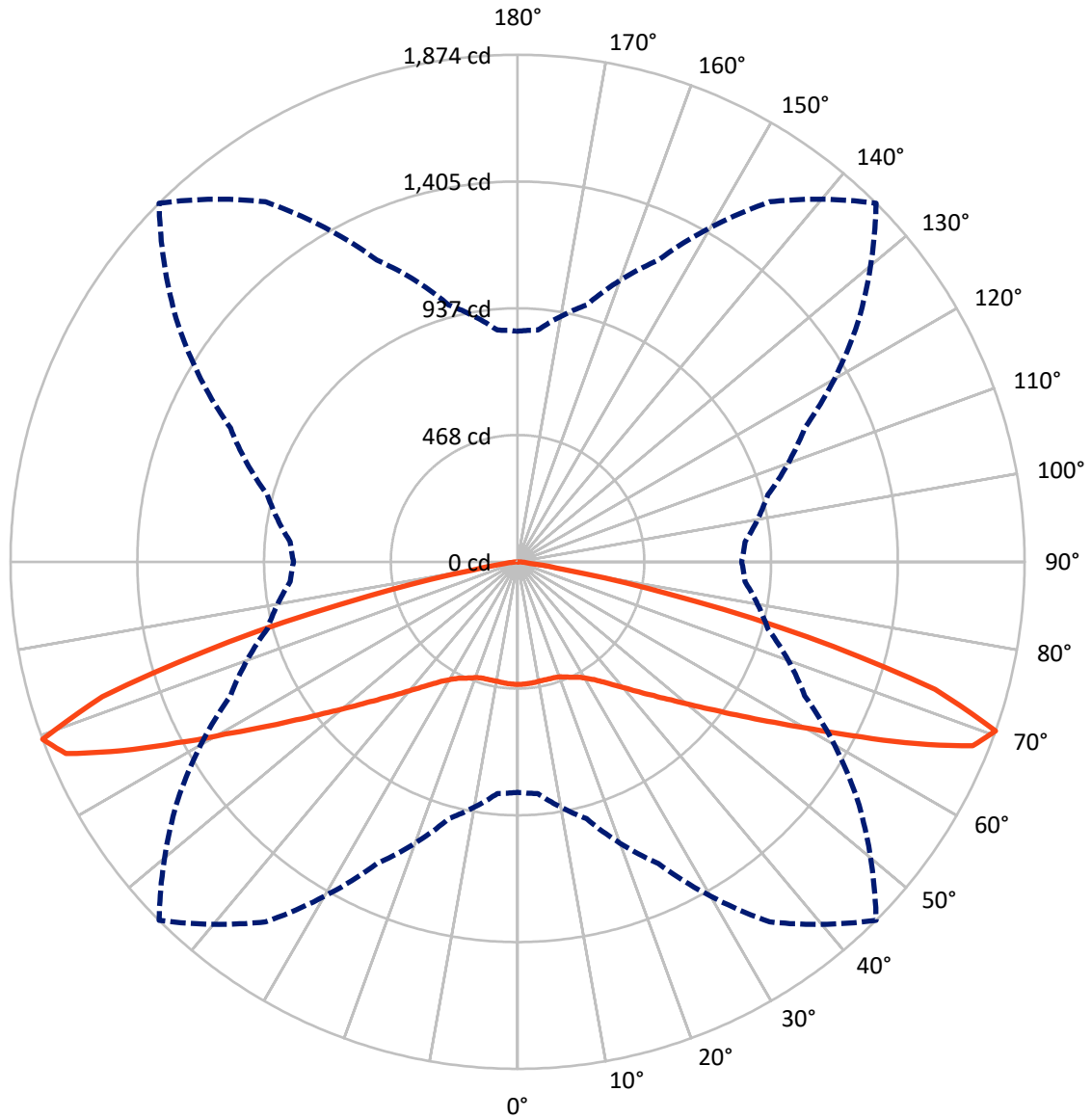
× Max cd
 - - - 1/2 Max cd



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



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

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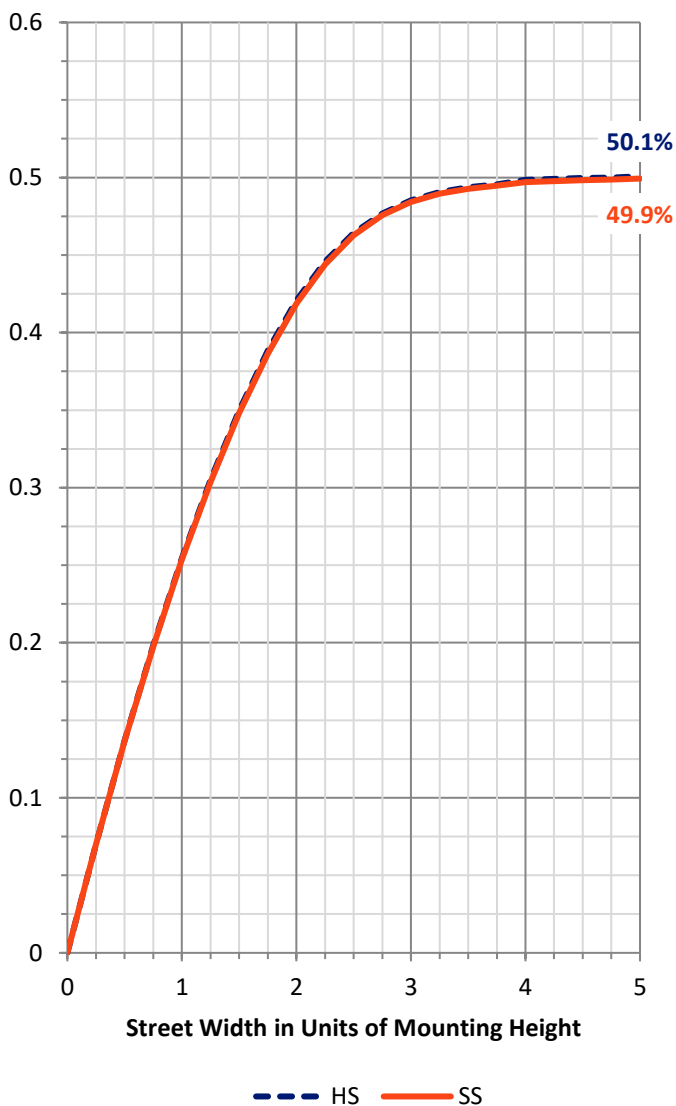
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.7	0.0	2040.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2040.7	0.0	2040.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4081.4	0.0	4081.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.1
10°-20°	126.1	3.1
20°-30°	215.7	5.3
30°-40°	342.4	8.4
40°-50°	552.3	13.5
50°-60°	898.6	22.0
60°-70°	1302.7	31.9
70°-80°	577.8	14.2
80°-90°	22.8	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°	4081.4	100.0
0°-180°	4081.4	100.0

Coefficient of Utilization



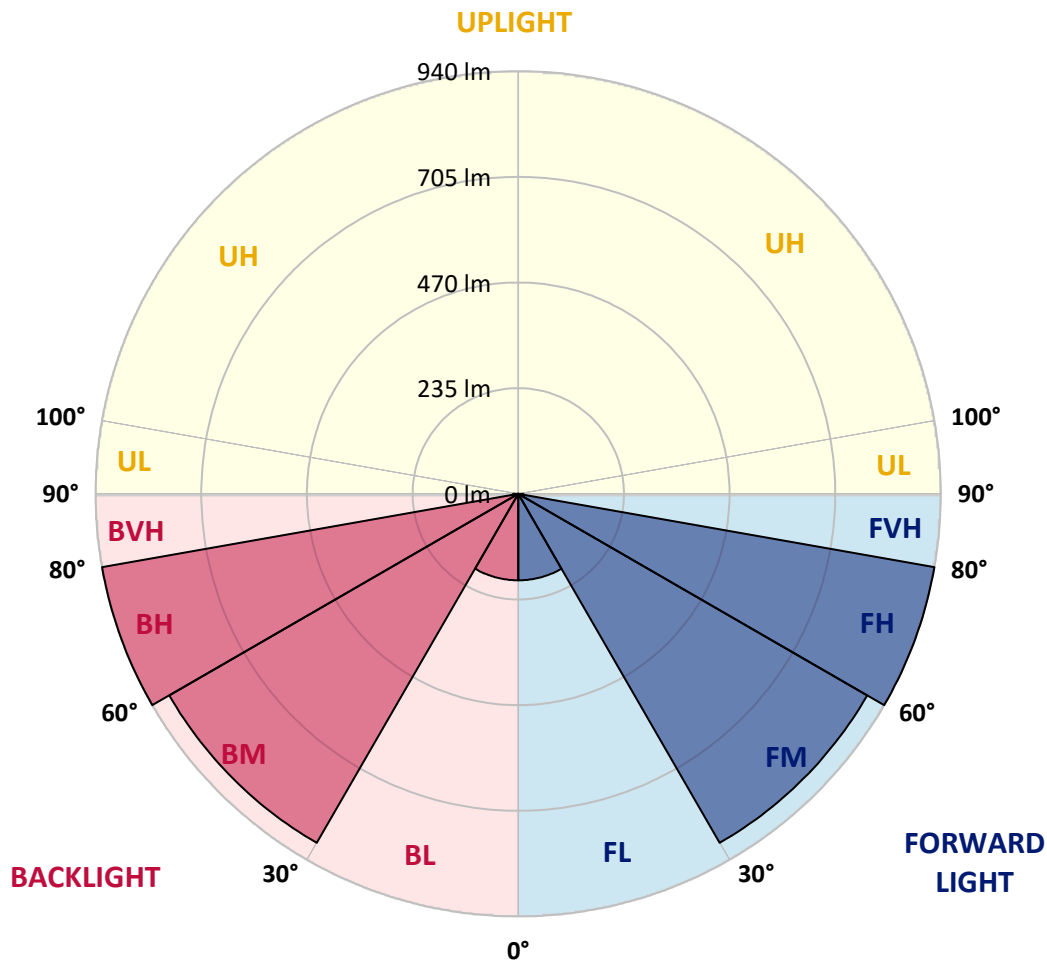
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.4	4.7			
FM (30°-60°)	896.6	22.0			
FH (60°-80°)	940.2	23.0			G1/1800
FVH (80°-90°)	11.4	0.3			G1/100
BL (0°-30°)	192.4	4.7	B1/500		
BM (30°-60°)	896.6	22.0	B1/1000		
BH (60°-80°)	940.2	23.0	B2/1000		G1/1800
BVH (80°-90°)	11.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	453.2	453.6	453.0	452.5	452.4	452.4	452.1	452.4	453.6	453.9	453.2
5°	452.0	452.4	452.1	451.7	451.5	451.5	451.3	451.0	452.1	452.5	452.4
7.5°	450.2	450.4	450.2	450.0	450.2	450.0	449.3	448.9	449.8	449.8	449.6
10°	447.2	447.7	447.4	447.7	448.1	448.1	447.2	446.3	446.6	446.2	446.2
12.5°	443.5	444.2	444.4	445.2	446.3	447.7	445.7	443.7	443.3	443.1	442.9
15°	441.2	441.8	442.7	443.5	445.5	448.3	445.5	442.5	441.6	440.8	440.3
17.5°	440.5	441.4	442.7	444.0	446.6	449.3	447.0	444.0	441.8	440.5	440.1
20°	442.3	442.9	444.8	447.2	450.9	453.6	451.3	448.1	444.8	442.9	442.3
22.5°	445.7	446.7	449.1	453.5	458.6	462.7	459.4	454.1	448.9	446.3	445.5
25°	453.2	454.1	456.9	462.7	468.7	472.6	469.1	462.9	455.8	452.4	451.3
27.5°	464.7	465.9	468.9	475.8	480.7	482.9	480.5	476.3	471.0	467.4	466.6
30°	480.7	482.2	486.8	494.1	497.3	498.6	497.5	494.8	491.1	487.2	486.4
32.5°	502.5	503.3	508.5	515.4	518.4	518.8	517.6	516.2	510.2	503.8	503.3
35°	526.8	528.3	534.5	542.7	545.5	545.7	543.1	541.2	534.1	528.9	528.9
37.5°	559.0	559.7	565.7	575.0	577.9	577.1	575.8	574.1	566.6	559.9	560.1
40°	596.9	598.2	603.3	614.1	614.1	613.0	613.9	612.6	605.1	598.6	598.9
42.5°	641.9	642.5	648.7	660.2	659.3	657.2	658.0	656.2	651.5	644.2	641.7
45°	689.8	692.4	703.2	714.1	712.4	705.5	709.0	708.5	704.3	693.2	693.9
47.5°	747.6	752.0	762.3	775.4	773.5	762.8	766.7	769.2	763.2	751.1	749.0
50°	812.8	815.7	830.9	843.2	841.5	830.1	838.9	839.3	824.3	807.3	807.3
52.5°	882.4	885.2	905.8	924.9	926.0	909.5	916.5	916.1	891.6	869.3	864.9
55°	960.2	961.5	988.2	1016.3	1022.4	1006.3	1007.1	998.5	966.6	940.7	938.3
57.5°	1040.7	1045.4	1074.9	1111.5	1129.3	1119.4	1114.8	1091.9	1061.1	1031.2	1029.7
60°	1129.7	1129.9	1168.2	1211.5	1247.6	1254.3	1235.8	1205.0	1165.2	1125.6	1123.9
62.5°	1191.4	1200.7	1249.1	1322.2	1387.0	1424.4	1375.5	1311.0	1232.7	1168.8	1162.4
65°	1204.1	1210.4	1284.1	1408.1	1540.4	1621.0	1508.1	1370.8	1237.3	1152.1	1147.8
67.5°	1101.5	1108.2	1207.6	1397.7	1647.9	1813.3	1594.1	1342.0	1160.7	1055.3	1046.9
70°	852.0	859.5	982.4	1230.4	1624.0	1873.7	1532.8	1170.6	957.2	843.4	828.1
72.5°	453.0	480.7	585.8	844.4	1318.1	1613.3	1256.9	854.2	617.4	504.6	484.4
75°	165.4	168.9	227.3	374.5	766.8	1106.3	796.3	407.4	234.2	180.9	171.6
77.5°	68.4	68.2	74.8	113.1	278.5	566.6	310.8	119.6	74.7	69.0	68.2
80°	40.5	40.5	44.5	47.1	73.3	171.0	81.9	53.3	44.7	40.9	41.5
82.5°	18.1	19.2	28.2	29.7	35.5	46.9	39.6	34.0	29.3	20.2	18.2
85°	9.9	8.6	14.8	15.5	17.0	17.4	18.8	18.5	17.0	9.9	10.1
87.5°	1.9	2.4	4.3	3.2	3.6	3.2	4.3	6.1	6.2	3.4	2.8
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)