

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: P647695

Luminaire Tested: **GALN-SA1A-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647695
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.9 lumens
Efficiency: N/A
Efficacy: 115.1 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

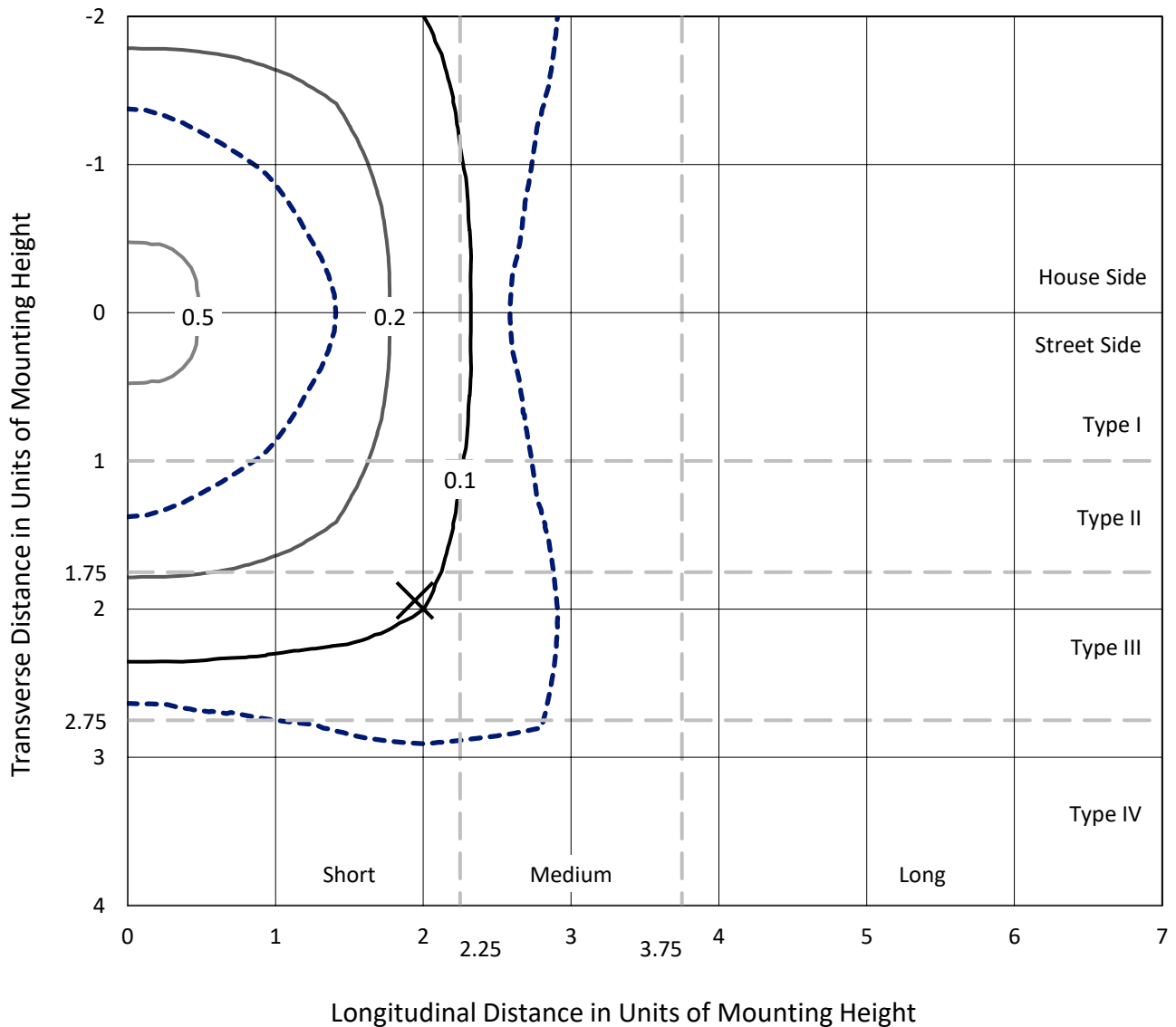
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

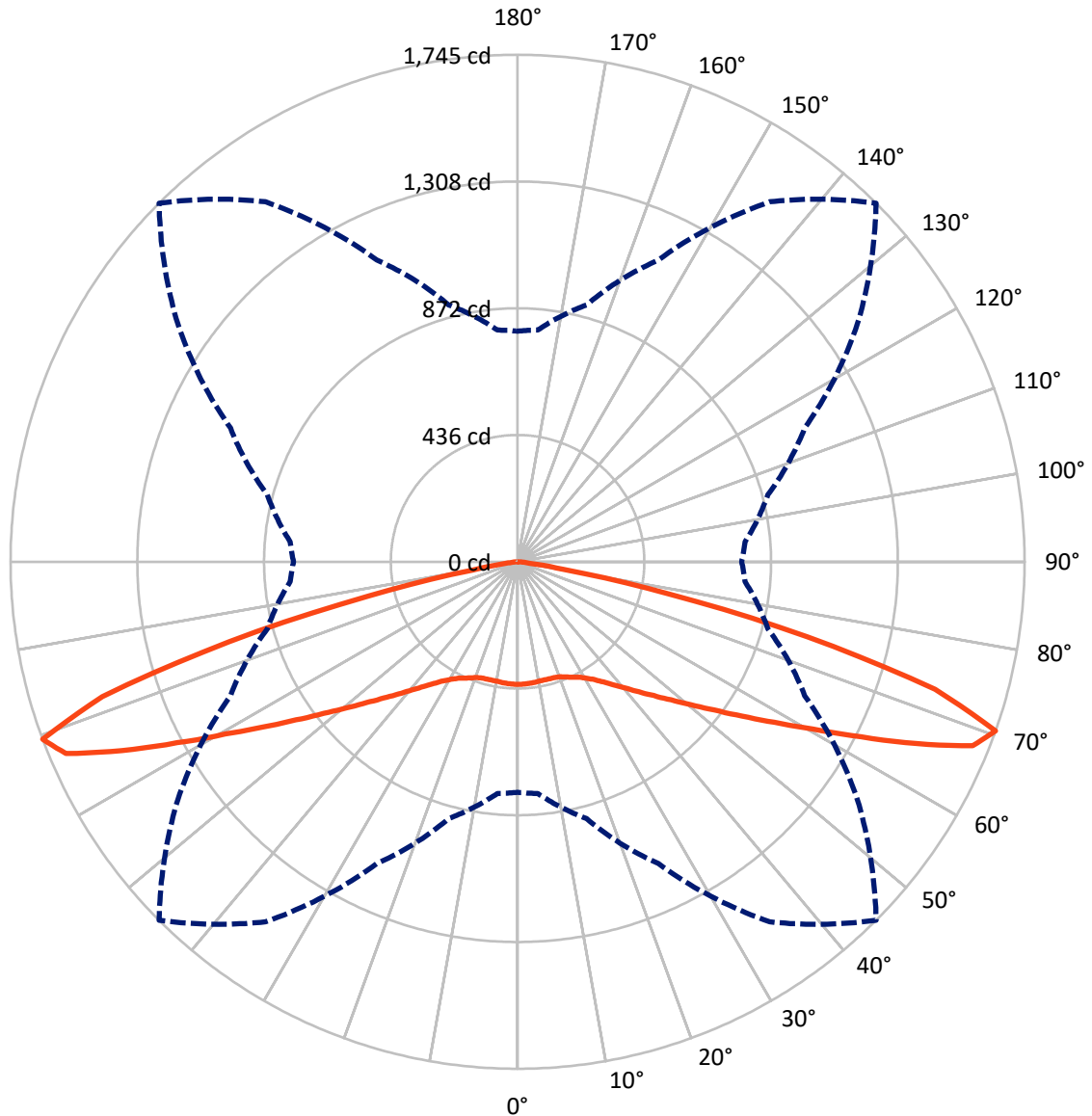
× Max cd
 - - - 1/2 Max cd



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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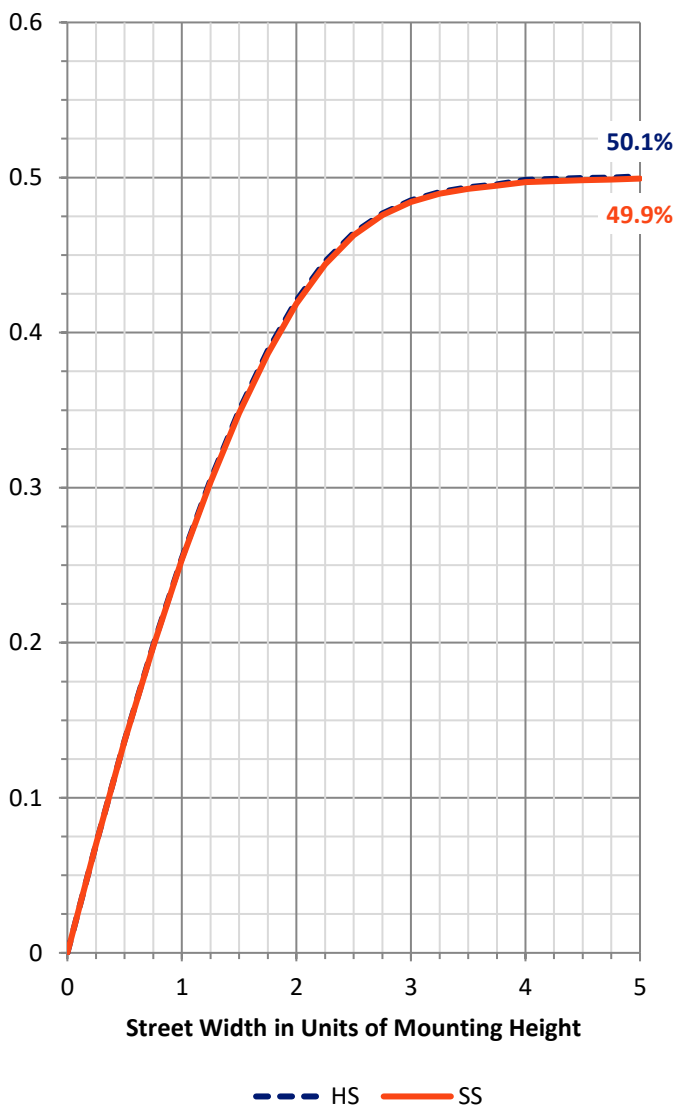
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1899.9	0.0	1899.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1899.9	0.0	1899.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3799.9	0.0	3799.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	1.1
10°-20°	117.4	3.1
20°-30°	200.8	5.3
30°-40°	318.7	8.4
40°-50°	514.2	13.5
50°-60°	836.7	22.0
60°-70°	1212.8	31.9
70°-80°	538.0	14.2
80°-90°	21.2	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°	3799.9	100.0
0°-180°	3799.9	100.0

Coefficient of Utilization



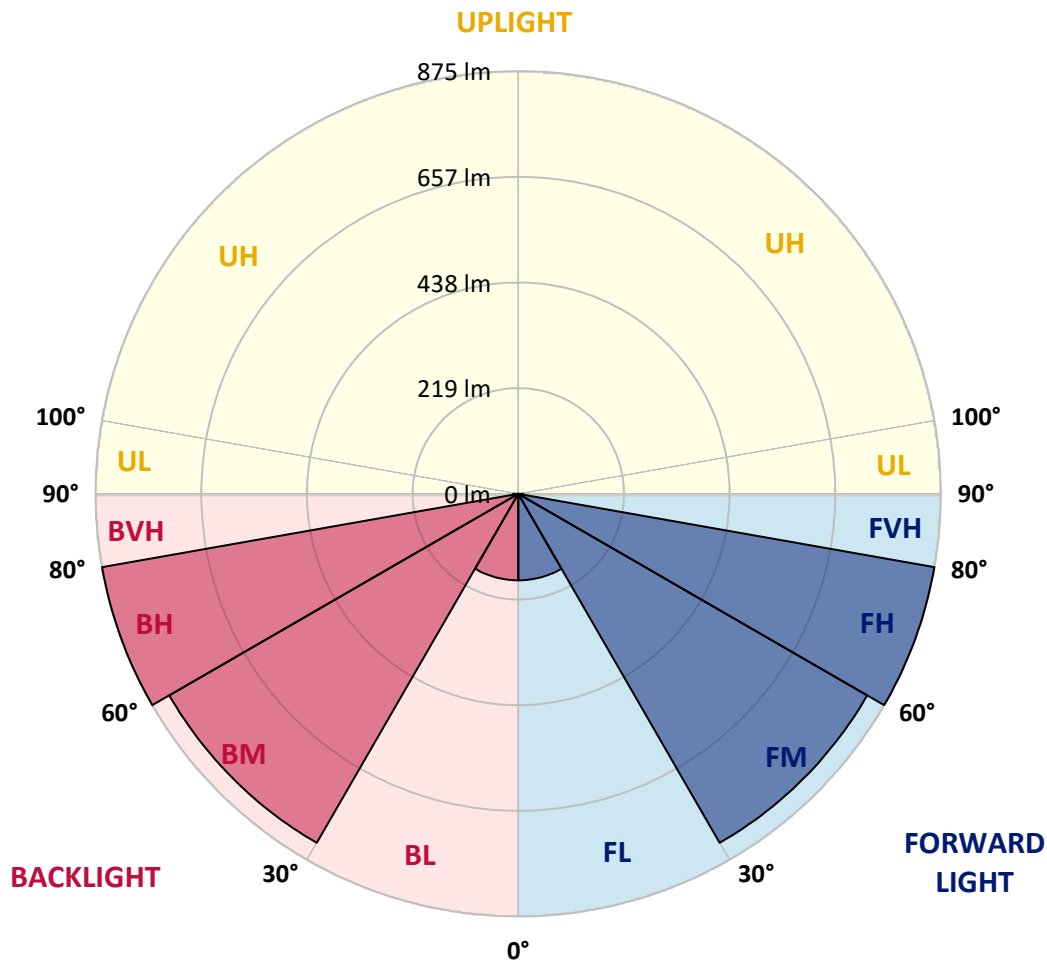
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.1	4.7			
FM (30°-60°)	834.8	22.0			
FH (60°-80°)	875.4	23.0			G1/1800
FVH (80°-90°)	10.6	0.3			G1/100
BL (0°-30°)	179.1	4.7	B1/500		
BM (30°-60°)	834.8	22.0	B1/1000		
BH (60°-80°)	875.4	23.0	B2/1000		G1/1800
BVH (80°-90°)	10.6	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°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	422.0	422.4	421.7	421.3	421.2	421.2	420.9	421.2	422.4	422.6	422.0
5°	420.8	421.2	420.9	420.5	420.4	420.4	420.2	419.9	420.9	421.3	421.2
7.5°	419.1	419.4	419.1	419.0	419.1	419.0	418.4	418.0	418.7	418.7	418.6
10°	416.3	416.8	416.6	416.8	417.2	417.2	416.3	415.5	415.8	415.4	415.4
12.5°	413.0	413.6	413.7	414.5	415.5	416.8	415.0	413.1	412.7	412.6	412.3
15°	410.8	411.3	412.2	413.0	414.8	417.3	414.8	411.9	411.2	410.4	410.0
17.5°	410.1	410.9	412.2	413.3	415.8	418.4	416.2	413.3	411.3	410.1	409.7
20°	411.8	412.3	414.1	416.3	419.8	422.4	420.2	417.2	414.1	412.3	411.8
22.5°	415.0	415.9	418.1	422.2	427.0	430.8	427.8	422.7	418.0	415.5	414.8
25°	422.0	422.7	425.4	430.8	436.4	440.0	436.8	431.0	424.4	421.2	420.2
27.5°	432.6	433.8	436.6	443.0	447.6	449.6	447.4	443.4	438.6	435.2	434.4
30°	447.6	449.0	453.2	460.0	463.0	464.2	463.2	460.6	457.2	453.6	452.8
32.5°	467.8	468.6	473.4	479.8	482.6	483.0	481.9	480.6	475.0	469.0	468.6
35°	490.5	491.9	497.7	505.3	507.9	508.1	505.7	503.9	497.3	492.4	492.4
37.5°	520.5	521.1	526.7	535.3	538.1	537.3	536.1	534.5	527.5	521.3	521.5
40°	555.8	556.9	561.7	571.7	571.7	570.7	571.6	570.3	563.4	557.3	557.6
42.5°	597.6	598.2	604.0	614.7	613.8	611.8	612.6	611.0	606.6	599.8	597.4
45°	642.2	644.6	654.7	664.8	663.3	656.9	660.1	659.7	655.7	645.4	646.1
47.5°	696.1	700.2	709.7	721.9	720.1	710.2	713.8	716.1	710.6	699.3	697.3
50°	756.8	759.4	773.6	785.0	783.5	772.8	781.0	781.4	767.4	751.6	751.6
52.5°	821.5	824.1	843.3	861.1	862.2	846.7	853.3	852.9	830.1	809.3	805.2
55°	894.0	895.2	920.0	946.3	951.9	936.9	937.6	929.7	900.0	875.8	873.6
57.5°	968.9	973.3	1000.8	1034.8	1051.4	1042.2	1037.9	1016.6	987.9	960.1	958.7
60°	1051.8	1052.0	1087.7	1127.9	1161.6	1167.8	1150.5	1121.9	1084.8	1048.0	1046.4
62.5°	1109.3	1117.9	1162.9	1231.0	1291.3	1326.2	1280.7	1220.6	1147.7	1088.2	1082.3
65°	1121.1	1126.9	1195.6	1311.0	1434.1	1509.2	1404.1	1276.3	1151.9	1072.6	1068.6
67.5°	1025.6	1031.8	1124.3	1301.3	1534.2	1688.2	1484.2	1249.4	1080.6	982.5	974.7
70°	793.3	800.2	914.6	1145.5	1512.0	1744.5	1427.1	1089.9	891.2	785.3	771.0
72.5°	421.7	447.6	545.4	786.2	1227.2	1502.0	1170.2	795.3	574.8	469.8	451.0
75°	154.0	157.2	211.6	348.7	713.9	1030.0	741.4	379.3	218.1	168.4	159.8
77.5°	63.7	63.5	69.7	105.3	259.3	527.5	289.4	111.3	69.5	64.3	63.5
80°	37.7	37.7	41.4	43.8	68.3	159.2	76.3	49.6	41.7	38.1	38.7
82.5°	16.8	17.9	26.2	27.6	33.0	43.7	36.9	31.6	27.2	18.8	17.0
85°	9.2	8.0	13.8	14.4	15.8	16.2	17.5	17.2	15.8	9.2	9.4
87.5°	1.8	2.2	4.0	3.0	3.4	3.0	4.0	5.6	5.8	3.2	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)