

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: P458513

Luminaire Tested: **GALN-SA1A-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458513
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-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 4521 lumens
Efficiency: N/A
Efficacy: 137.0 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

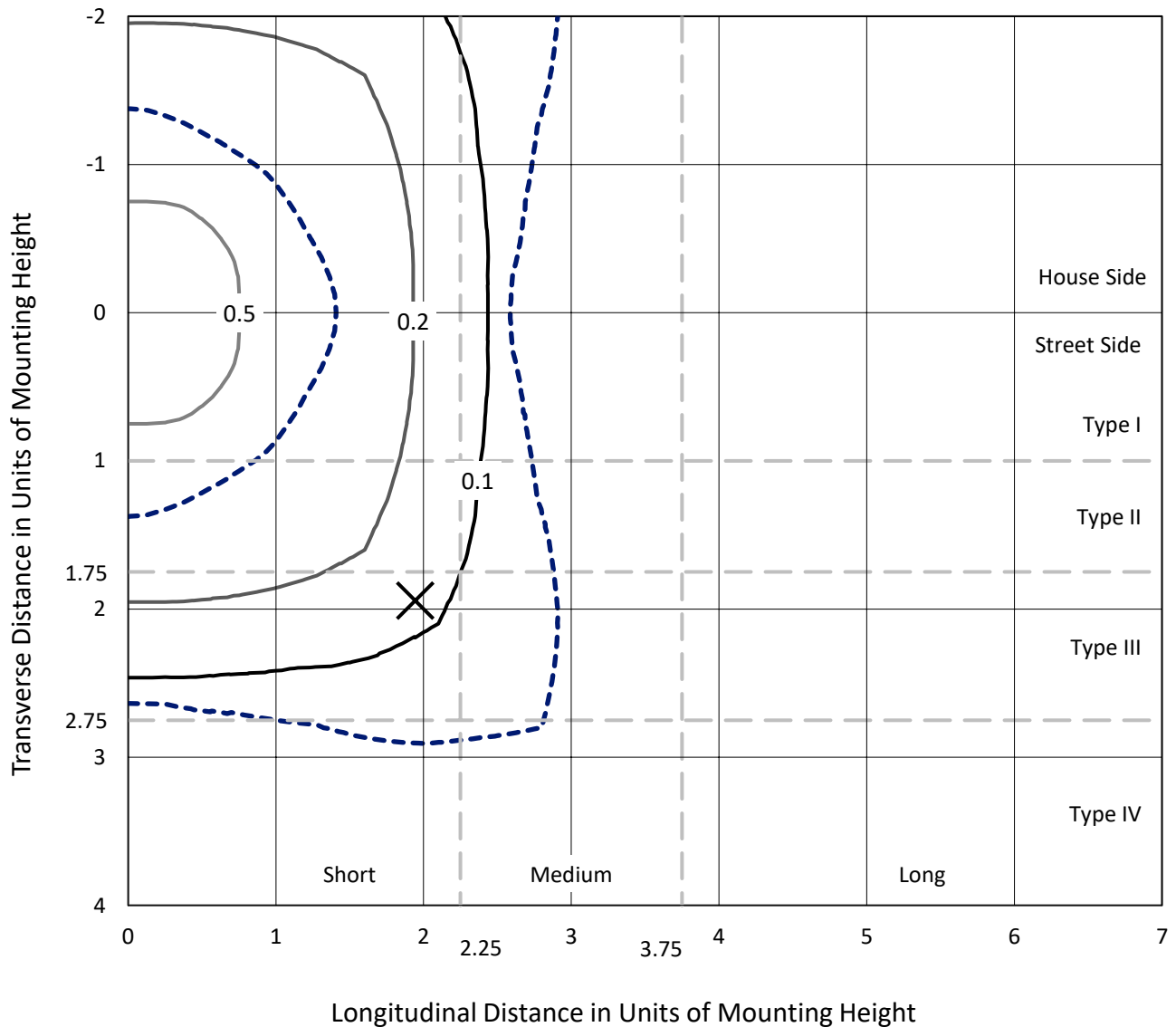
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

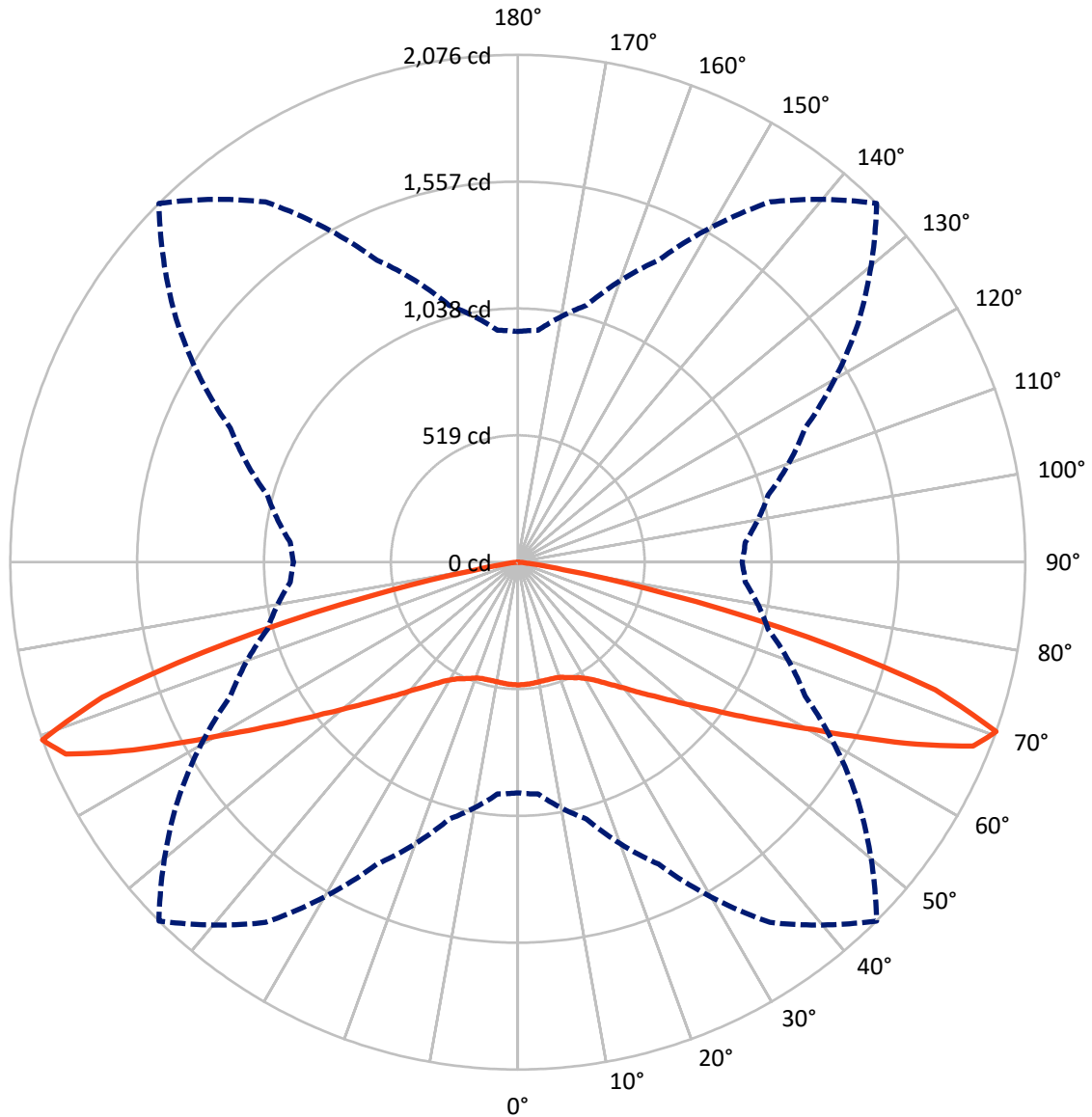
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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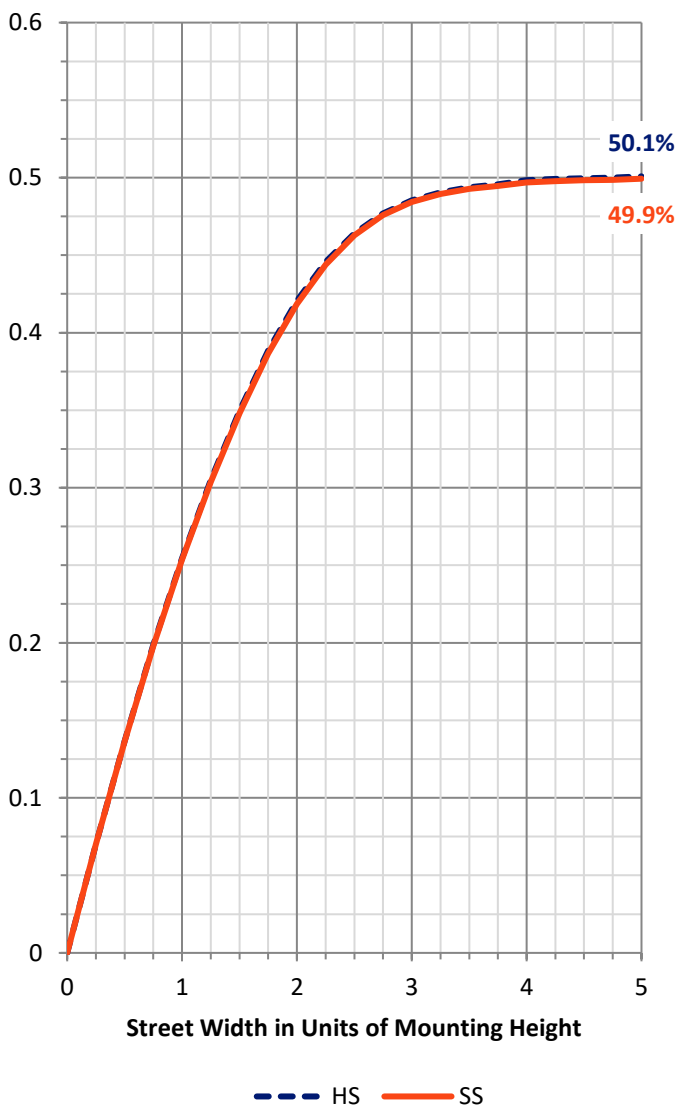
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2260.5	0.0	2260.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2260.5	0.0	2260.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4521.0	0.0	4521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	139.7	3.1
20°-30°	238.9	5.3
30°-40°	379.2	8.4
40°-50°	611.8	13.5
50°-60°	995.4	22.0
60°-70°	1443.0	31.9
70°-80°	640.1	14.2
80°-90°	25.2	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°	4521.0	100.0
0°-180°	4521.0	100.0

Coefficient of Utilization



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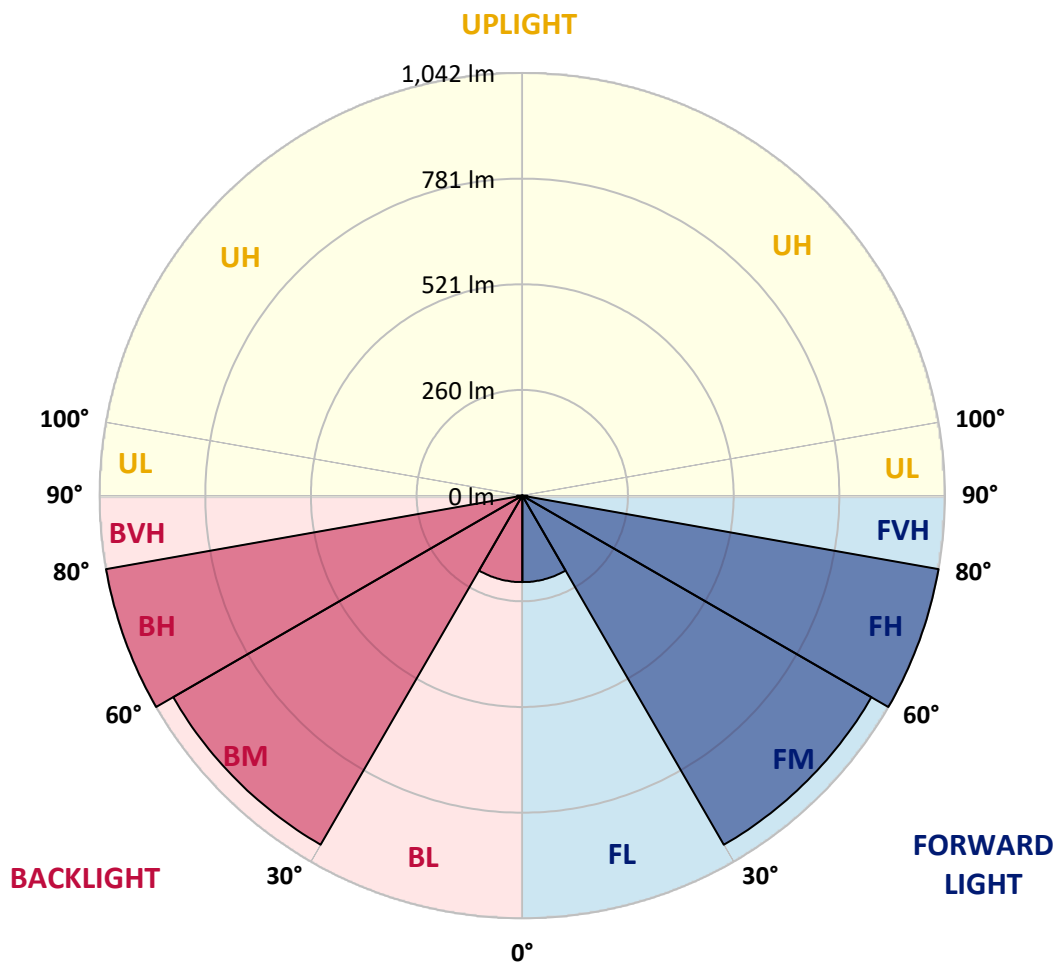
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.1	4.7			
FM (30°-60°)	993.2	22.0			
FH (60°-80°)	1041.5	23.0			G1/1800
FVH (80°-90°)	12.6	0.3			G1/100
BL (0°-30°)	213.1	4.7	B1/500		
BM (30°-60°)	993.2	22.0	B1/1000		
BH (60°-80°)	1041.5	23.0	B3/2500		G1/1800
BVH (80°-90°)	12.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0
2.5°	502.0	502.5	501.8	501.3	501.1	501.1	500.8	501.1	502.5	502.8	502.0
5°	500.6	501.1	500.8	500.4	500.1	500.1	499.9	499.7	500.8	501.3	501.1
7.5°	498.7	498.9	498.7	498.5	498.7	498.5	497.7	497.3	498.2	498.2	498.0
10°	495.4	495.8	495.6	495.8	496.3	496.3	495.4	494.4	494.6	494.2	494.2
12.5°	491.3	492.0	492.3	493.2	494.4	495.8	493.7	491.6	491.1	490.8	490.6
15°	488.7	489.4	490.4	491.3	493.5	496.6	493.5	490.1	489.2	488.2	487.7
17.5°	488.0	488.9	490.4	491.8	494.6	497.7	495.1	491.8	489.4	488.0	487.5
20°	489.9	490.6	492.7	495.4	499.4	502.5	499.9	496.3	492.7	490.6	489.9
22.5°	493.7	494.9	497.5	502.3	508.0	512.5	508.9	503.0	497.3	494.4	493.5
25°	502.0	503.0	506.1	512.5	519.2	523.5	519.7	512.8	504.9	501.1	499.9
27.5°	514.7	516.1	519.4	527.1	532.5	534.9	532.3	527.5	521.8	517.8	516.8
30°	532.5	534.2	539.2	547.3	550.9	552.3	551.1	548.0	544.0	539.7	538.7
32.5°	556.6	557.6	563.3	570.9	574.2	574.7	573.3	571.8	565.2	558.0	557.6
35°	583.5	585.2	592.1	601.2	604.3	604.5	601.6	599.5	591.6	585.9	585.9
37.5°	619.3	620.0	626.7	636.9	640.2	639.3	637.8	635.9	627.6	620.2	620.5
40°	661.2	662.6	668.3	680.3	680.3	679.1	680.0	678.6	670.3	663.1	663.3
42.5°	711.0	711.7	718.6	731.3	730.3	727.9	728.9	727.0	721.7	713.6	710.8
45°	764.1	767.0	778.9	791.1	789.2	781.5	785.3	784.9	780.1	767.9	768.7
47.5°	828.2	833.0	844.4	859.0	856.8	844.9	849.2	852.1	845.4	832.0	829.7
50°	900.4	903.5	920.4	934.0	932.1	919.5	929.3	929.7	913.1	894.2	894.2
52.5°	977.4	980.5	1003.4	1024.6	1025.8	1007.4	1015.3	1014.8	987.6	962.9	958.1
55°	1063.6	1065.1	1094.6	1125.8	1132.5	1114.6	1115.6	1106.1	1070.8	1042.0	1039.3
57.5°	1152.8	1158.0	1190.6	1231.1	1250.9	1240.0	1235.0	1209.5	1175.4	1142.3	1140.6
60°	1251.4	1251.6	1294.0	1341.9	1382.0	1389.4	1368.9	1334.8	1290.7	1246.9	1245.0
62.5°	1319.8	1330.0	1383.6	1464.6	1536.4	1577.8	1523.7	1452.3	1365.5	1294.8	1287.6
65°	1333.8	1340.7	1422.5	1559.7	1706.3	1795.6	1670.5	1518.5	1370.5	1276.2	1271.4
67.5°	1220.2	1227.6	1337.7	1548.3	1825.4	2008.6	1765.8	1486.6	1285.7	1169.0	1159.7
70°	943.8	952.1	1088.2	1362.9	1798.9	2075.6	1697.9	1296.7	1060.3	934.3	917.3
72.5°	501.8	532.5	648.8	935.4	1460.1	1787.0	1392.2	946.2	683.8	559.0	536.6
75°	183.2	187.0	251.9	414.8	849.4	1225.4	882.1	451.3	259.5	200.4	190.1
77.5°	75.8	75.5	82.9	125.3	308.6	627.6	344.3	132.5	82.7	76.5	75.5
80°	44.8	44.8	49.3	52.2	81.3	189.4	90.8	59.1	49.6	45.3	46.0
82.5°	20.0	21.2	31.2	32.9	39.3	51.9	43.8	37.6	32.4	22.4	20.3
85°	11.0	9.5	16.4	17.2	18.8	19.3	20.7	20.5	18.8	11.0	11.2
87.5°	2.1	2.6	4.8	3.6	4.1	3.6	4.8	6.7	6.9	3.8	3.1
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)