

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: P450192

Luminaire Tested: **GALN-SA1A-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450192
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-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4050 lumens
Efficiency: N/A
Efficacy: 122.7 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

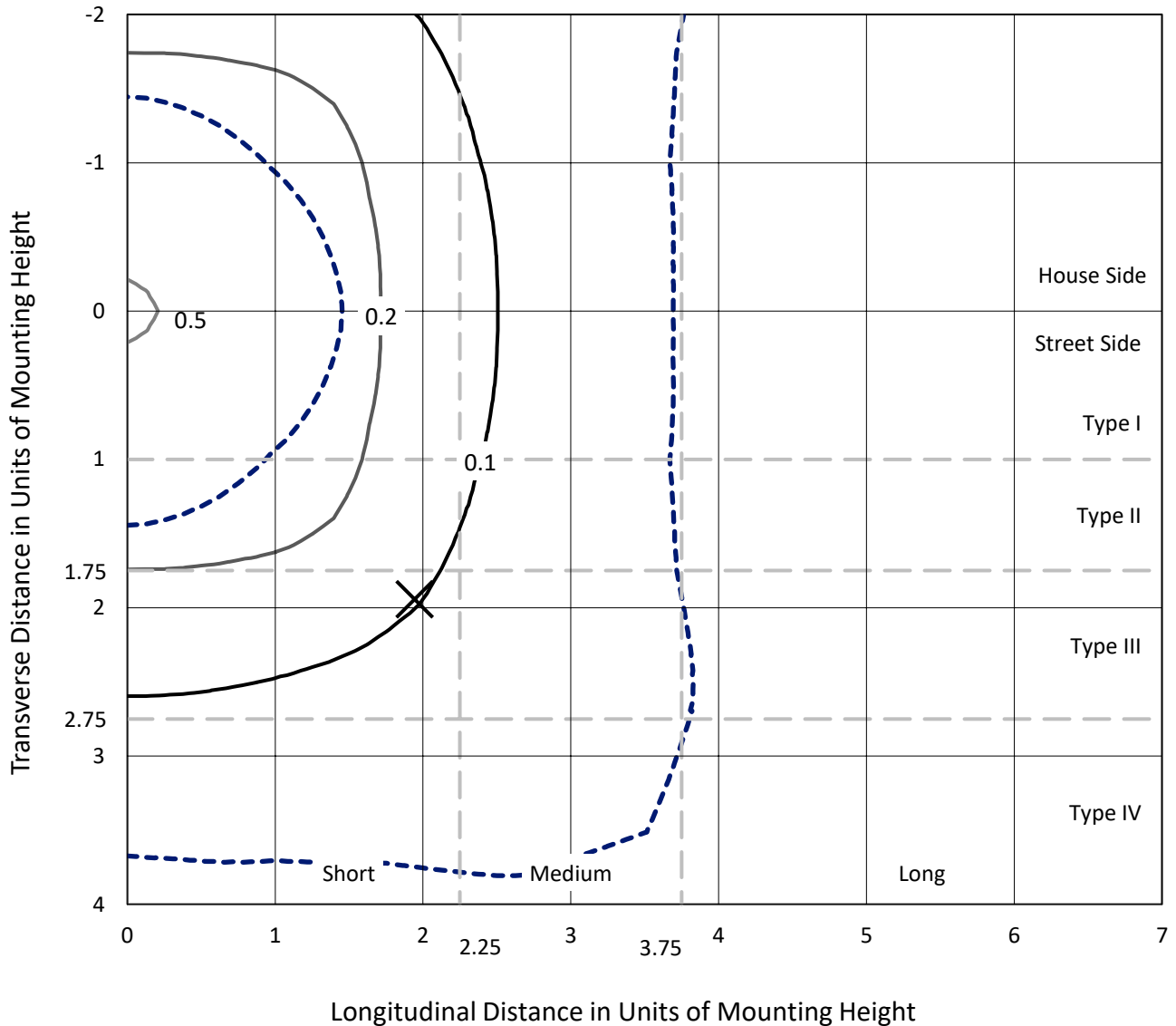
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

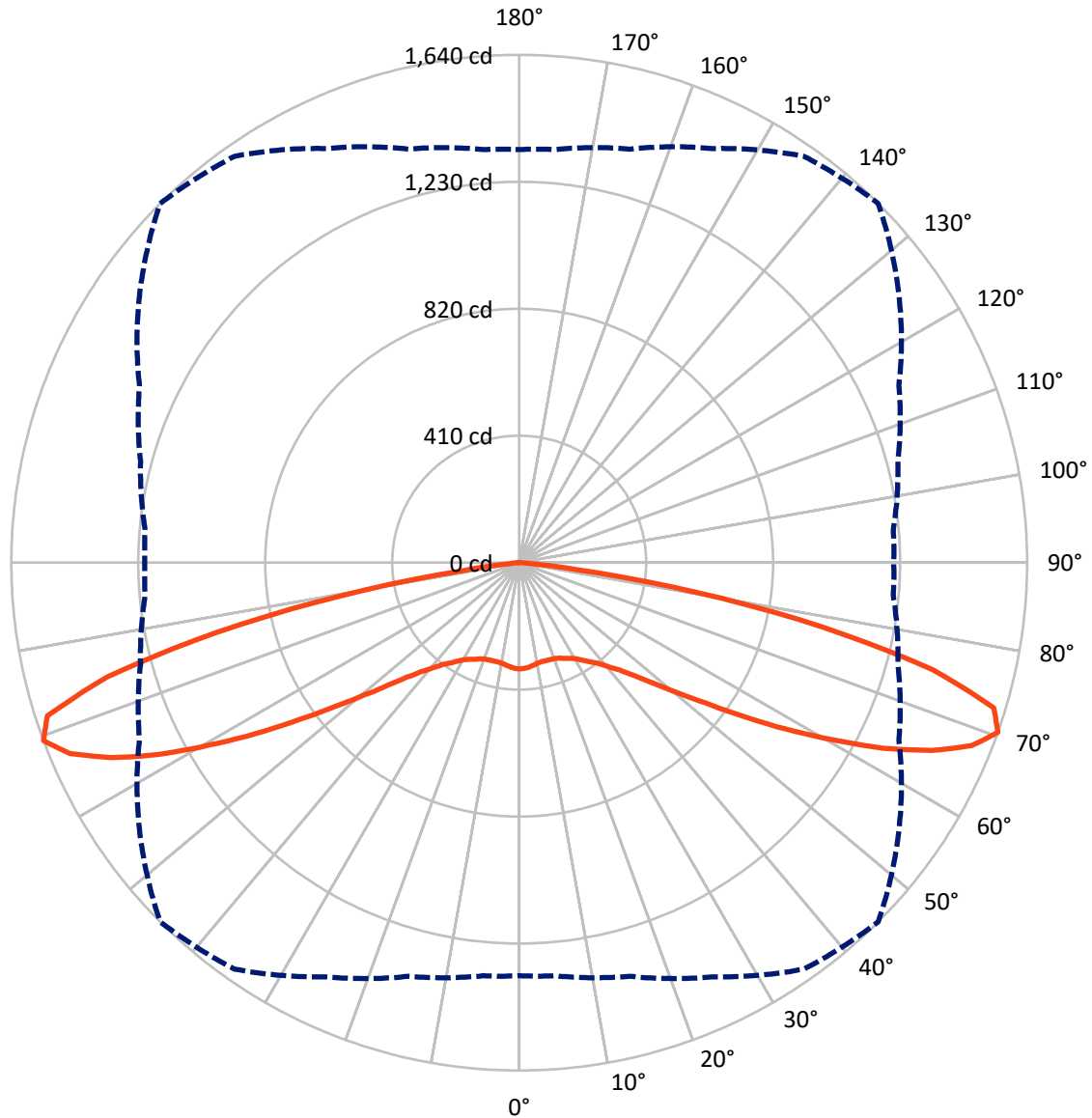
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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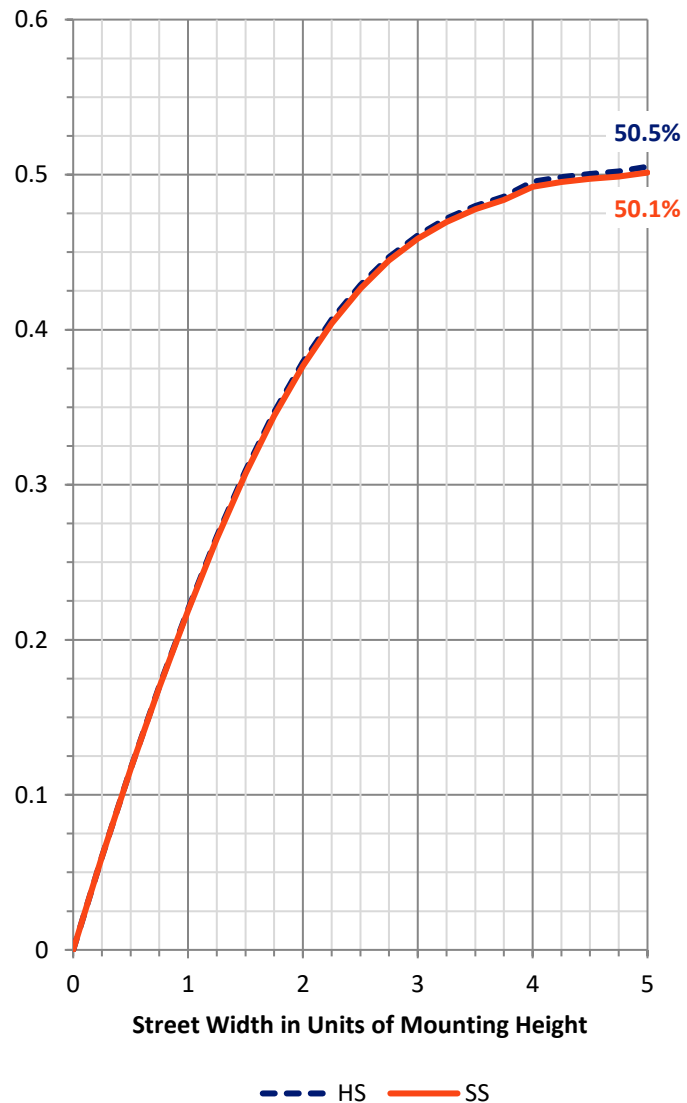
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.0	0.0	2025.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2025.0	0.0	2025.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4050.0	0.0	4050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	0.8
10°-20°	93.9	2.3
20°-30°	159.9	3.9
30°-40°	247.9	6.1
40°-50°	417.3	10.3
50°-60°	759.2	18.7
60°-70°	1285.3	31.7
70°-80°	994.9	24.6
80°-90°	59.6	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°	4050.0	100.0
0°-180°	4050.0	100.0



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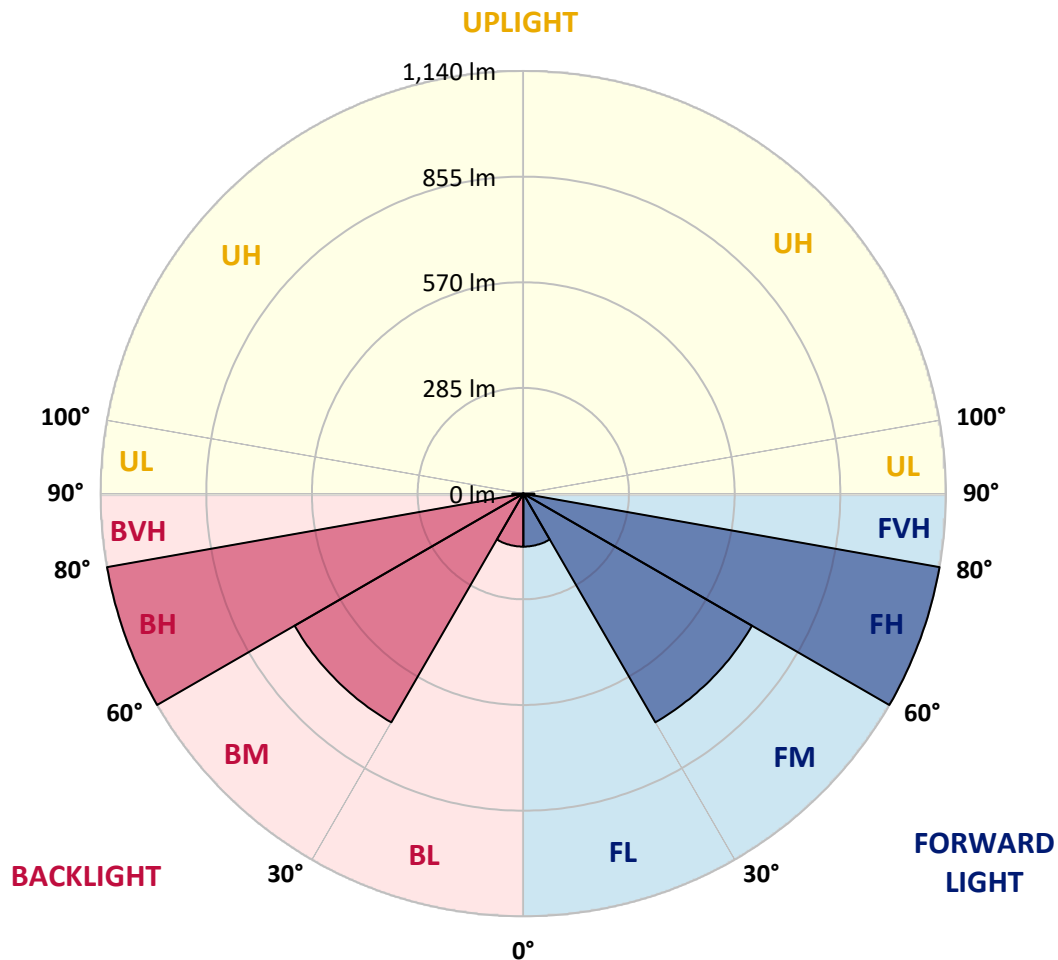
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.9	3.5			
FM (30°-60°)	712.2	17.6			
FH (60°-80°)	1140.1	28.1			G1/1800
FVH (80°-90°)	29.8	0.7			G1/100
BL (0°-30°)	142.9	3.5	B1/500		
BM (30°-60°)	712.2	17.6	B1/1000		
BH (60°-80°)	1140.1	28.1	B3/2500		G1/1800
BVH (80°-90°)	29.8	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°	342.9	342.9	342.9	342.9	342.9	342.9	342.9	342.9	342.9	342.9	342.9
2.5°	342.0	342.2	342.2	341.8	341.6	341.6	341.4	341.4	342.0	342.2	342.5
5°	339.0	339.0	339.0	338.8	338.4	338.4	338.0	338.0	338.2	338.8	338.4
7.5°	335.0	335.4	335.4	334.5	333.9	333.9	333.7	333.9	334.1	334.8	334.5
10°	333.7	333.9	332.8	331.3	330.3	329.6	329.8	330.3	331.3	331.8	332.0
12.5°	334.5	334.5	332.6	330.5	328.6	327.7	327.5	329.0	330.9	332.2	332.6
15°	335.6	335.2	332.8	330.0	328.1	327.9	327.7	328.8	331.5	334.1	334.3
17.5°	336.3	336.0	333.0	329.6	328.6	328.6	328.3	329.2	332.2	335.4	335.6
20°	338.4	337.7	334.3	330.7	329.8	330.3	329.6	330.7	333.9	337.7	338.6
22.5°	342.7	342.0	338.6	335.0	334.5	334.5	334.3	335.4	338.8	342.9	343.5
25°	347.8	347.2	344.0	341.4	341.8	342.7	342.2	342.5	345.2	348.7	349.7
27.5°	354.6	353.6	350.8	348.7	349.9	349.9	349.9	349.7	351.4	354.6	355.7
30°	363.0	362.6	359.6	359.4	360.4	359.4	359.4	359.6	359.8	362.8	363.8
32.5°	373.9	373.0	371.5	371.1	374.1	375.0	372.0	369.2	370.7	373.7	374.3
35°	391.9	390.6	388.4	386.1	388.4	392.5	386.1	384.0	387.8	391.9	392.3
37.5°	416.2	415.6	412.2	407.9	407.7	412.0	405.3	405.1	412.4	417.3	418.0
40°	446.8	447.5	443.2	439.1	437.0	440.4	435.3	437.2	444.3	449.8	449.4
42.5°	489.8	487.5	480.8	477.0	474.6	473.4	472.1	475.1	483.0	489.0	493.7
45°	540.1	539.2	530.9	526.2	521.1	519.1	518.7	524.1	533.7	541.0	541.6
47.5°	597.0	595.1	589.7	584.8	582.9	580.5	578.4	582.5	592.1	597.2	598.7
50°	655.6	656.0	656.0	655.2	657.1	657.5	651.8	653.3	658.6	658.2	657.7
52.5°	722.6	724.9	736.0	737.1	746.3	752.5	742.0	735.8	733.9	722.3	723.2
55°	801.3	803.4	820.1	836.8	861.6	872.1	850.0	830.8	817.1	799.6	800.4
57.5°	899.5	900.5	916.3	948.4	987.8	1012.4	973.7	935.6	907.8	891.1	884.5
60°	1005.1	1006.2	1029.3	1068.4	1129.6	1159.6	1111.6	1049.4	1014.3	988.9	990.6
62.5°	1132.0	1136.2	1157.0	1210.9	1285.1	1318.7	1255.2	1172.0	1124.5	1092.8	1094.1
65°	1267.8	1275.1	1297.7	1357.0	1425.4	1461.6	1383.7	1287.7	1228.6	1189.9	1194.0
67.5°	1355.9	1362.3	1395.1	1460.5	1545.9	1575.8	1475.3	1363.4	1289.6	1243.4	1234.8
70°	1333.5	1338.8	1382.4	1475.3	1601.7	1639.5	1497.1	1352.3	1265.4	1212.2	1208.8
72.5°	1177.1	1166.0	1229.7	1363.0	1537.9	1601.5	1428.4	1235.1	1125.8	1071.0	1064.6
75°	780.1	804.3	898.4	1055.4	1301.2	1379.9	1219.2	991.6	854.1	808.5	801.5
77.5°	260.7	279.4	363.0	598.3	887.0	1005.3	888.3	648.5	458.8	369.6	371.3
80°	69.1	68.2	88.3	164.5	383.3	582.2	446.2	219.7	120.2	87.1	82.6
82.5°	24.8	27.8	35.7	45.6	101.6	181.0	127.7	61.6	45.1	33.4	32.3
85°	10.9	10.7	15.4	18.2	25.5	33.8	29.9	26.1	22.9	15.2	14.1
87.5°	2.4	2.4	3.6	2.8	4.5	4.5	5.6	6.6	6.8	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)