

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: P450221

Luminaire Tested: **GALN-SA1A-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450221
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-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4411 lumens
Efficiency: N/A
Efficacy: 133.7 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

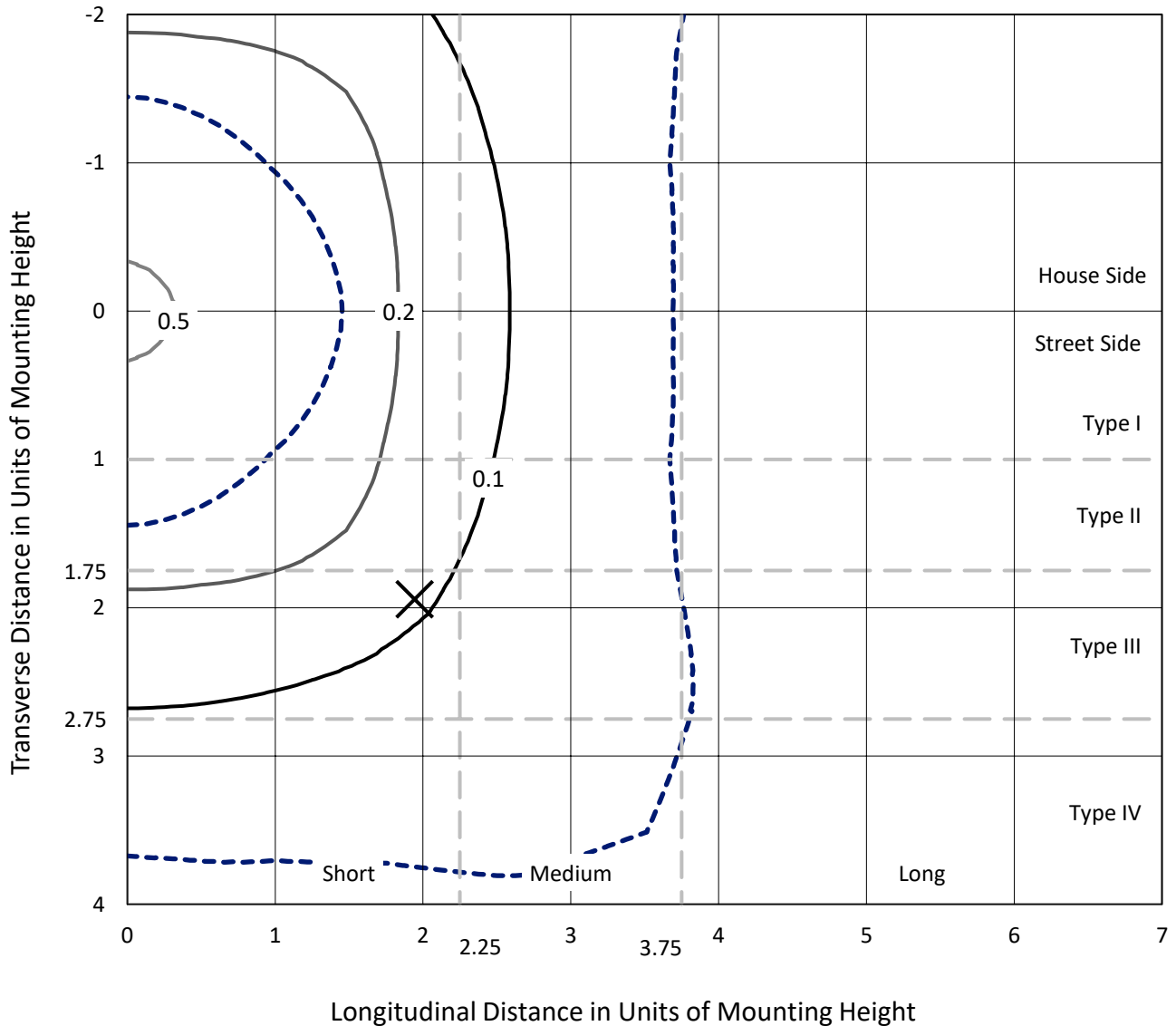
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

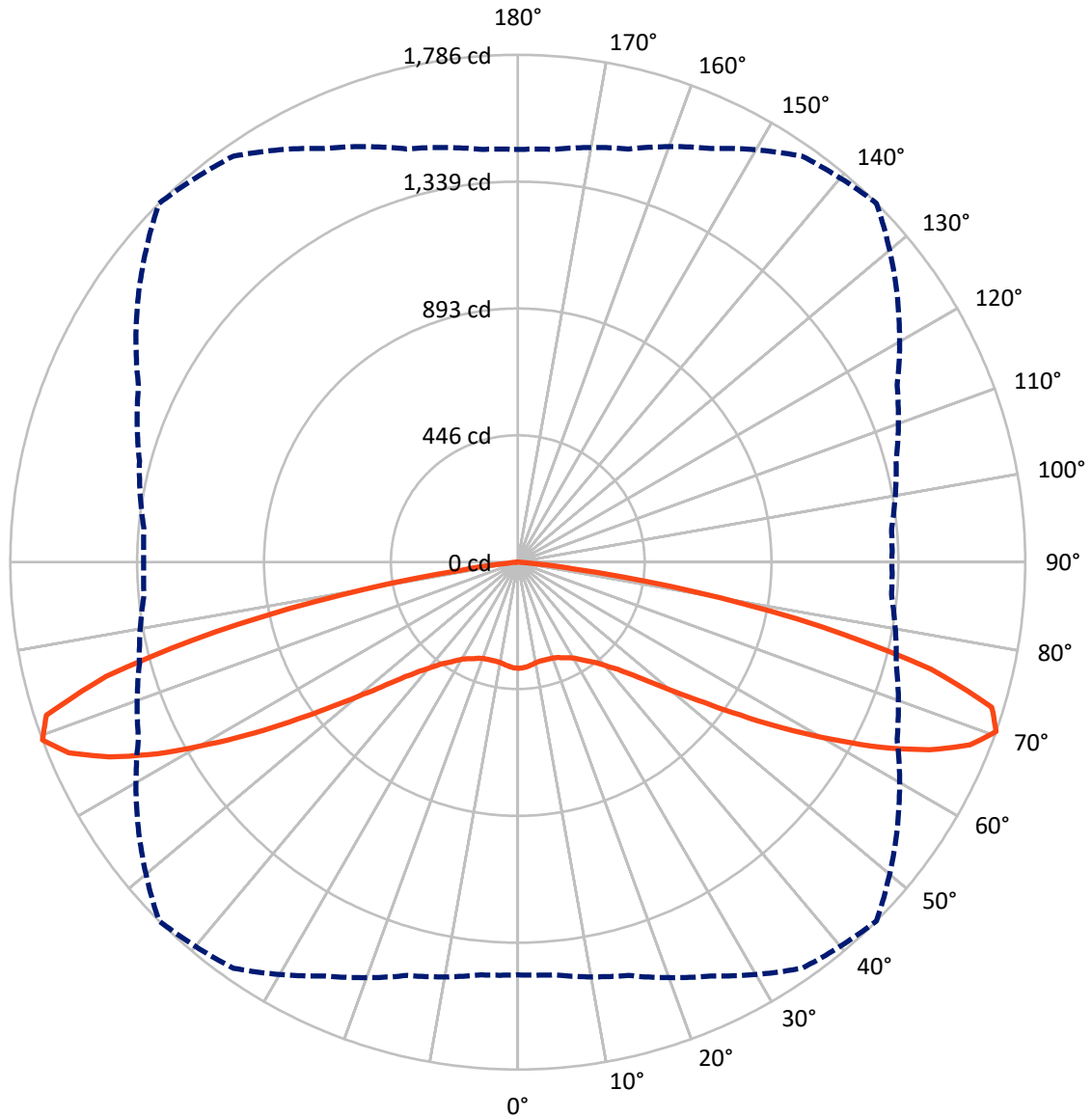
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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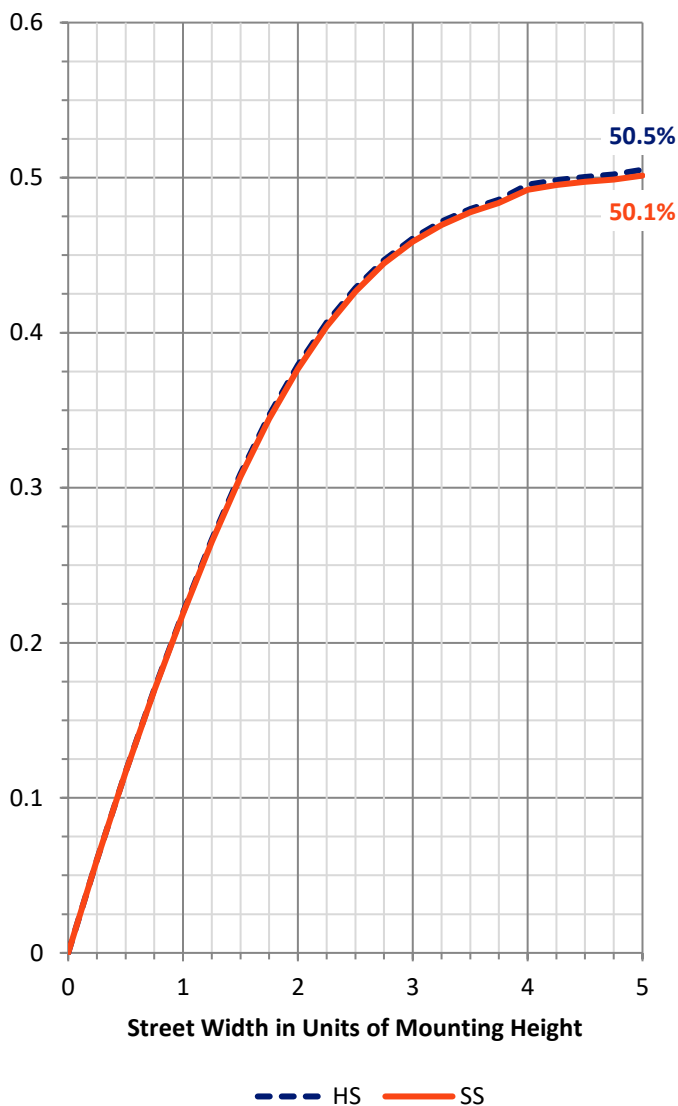
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.5	0.0	2205.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2205.5	0.0	2205.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4411.0	0.0	4411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	0.8
10°-20°	102.2	2.3
20°-30°	174.2	3.9
30°-40°	270.0	6.1
40°-50°	454.5	10.3
50°-60°	826.9	18.7
60°-70°	1399.9	31.7
70°-80°	1083.5	24.6
80°-90°	64.9	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°	4411.0	100.0
0°-180°	4411.0	100.0

Coefficient of Utilization



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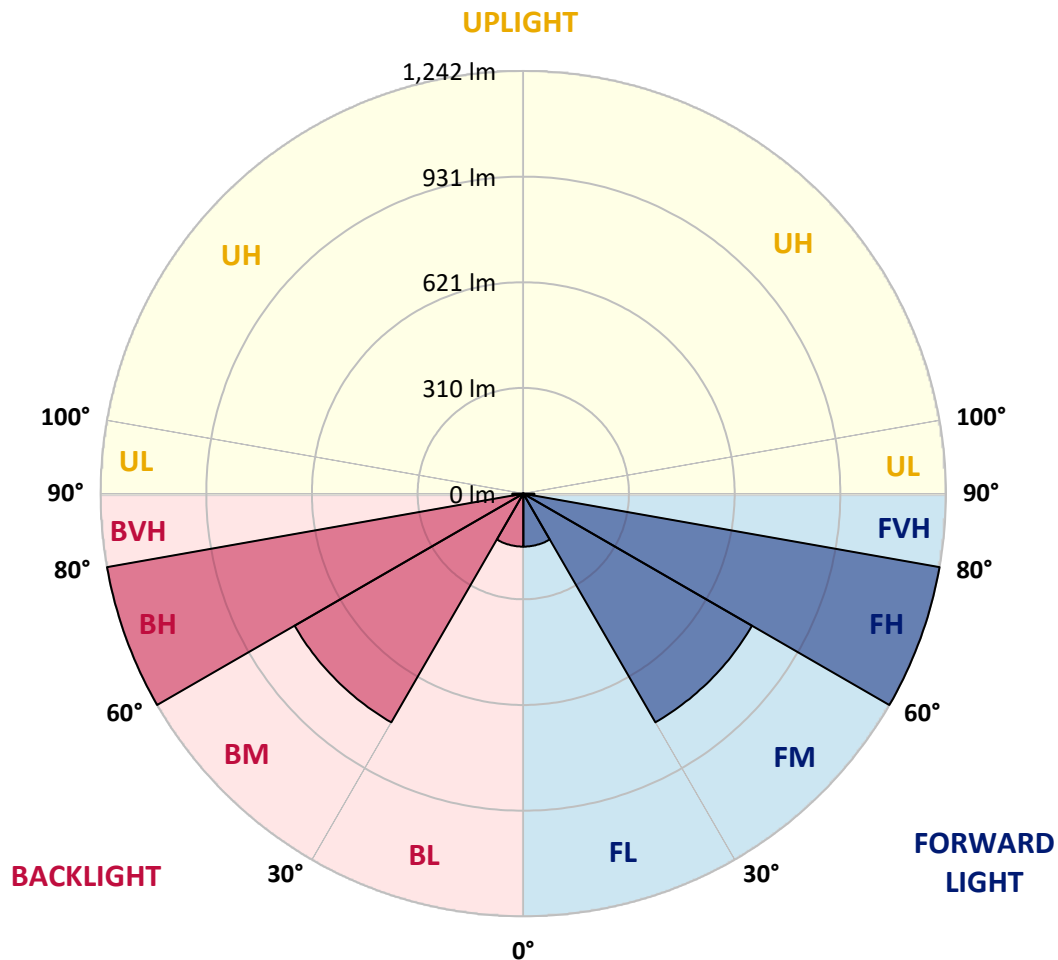
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.7	3.5			
FM (30°-60°)	775.7	17.6			
FH (60°-80°)	1241.7	28.1			G1/1800
FVH (80°-90°)	32.5	0.7			G1/100
BL (0°-30°)	155.7	3.5	B1/500		
BM (30°-60°)	775.7	17.6	B1/1000		
BH (60°-80°)	1241.7	28.1	B3/2500		G1/1800
BVH (80°-90°)	32.5	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°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	372.5	372.7	372.7	372.3	372.0	372.0	371.8	371.8	372.5	372.7	373.0
5°	369.3	369.3	369.3	369.0	368.6	368.6	368.1	368.1	368.3	369.0	368.6
7.5°	364.8	365.3	365.3	364.4	363.7	363.7	363.4	363.7	363.9	364.6	364.4
10°	363.4	363.7	362.5	360.9	359.7	359.0	359.2	359.7	360.9	361.3	361.6
12.5°	364.4	364.4	362.3	359.9	357.8	356.9	356.7	358.3	360.4	361.8	362.3
15°	365.5	365.1	362.5	359.5	357.4	357.1	356.9	358.1	361.1	363.9	364.1
17.5°	366.2	366.0	362.7	359.0	357.8	357.8	357.6	358.5	361.8	365.3	365.5
20°	368.6	367.9	364.1	360.2	359.2	359.7	359.0	360.2	363.7	367.9	368.8
22.5°	373.2	372.5	368.8	364.8	364.4	364.4	364.1	365.3	369.0	373.4	374.1
25°	378.8	378.1	374.6	371.8	372.3	373.2	372.7	373.0	376.0	379.7	380.9
27.5°	386.3	385.1	382.1	379.7	381.1	381.1	381.1	380.9	382.8	386.3	387.4
30°	395.3	394.9	391.6	391.4	392.5	391.4	391.4	391.6	391.8	395.1	396.3
32.5°	407.2	406.3	404.7	404.2	407.5	408.4	405.1	402.1	403.7	407.0	407.7
35°	426.8	425.4	423.1	420.5	423.1	427.5	420.5	418.2	422.4	426.8	427.3
37.5°	453.4	452.7	448.9	444.3	444.0	448.7	441.5	441.2	449.2	454.5	455.2
40°	486.7	487.4	482.7	478.3	476.0	479.7	474.1	476.2	483.9	489.9	489.5
42.5°	533.5	530.9	523.7	519.5	517.0	515.6	514.2	517.4	526.0	532.6	537.7
45°	588.2	587.3	578.2	573.1	567.5	565.4	564.9	570.8	581.3	589.2	589.9
47.5°	650.2	648.1	642.3	636.9	634.8	632.3	629.9	634.4	644.9	650.4	652.1
50°	714.0	714.5	714.5	713.6	715.7	716.1	709.8	711.5	717.3	716.8	716.4
52.5°	787.0	789.5	801.6	802.8	812.8	819.6	808.2	801.4	799.3	786.7	787.7
55°	872.7	875.0	893.2	911.4	938.4	949.8	925.8	904.8	889.9	870.8	871.8
57.5°	979.6	980.8	998.0	1033.0	1075.8	1102.6	1060.5	1019.0	988.7	970.5	963.3
60°	1094.7	1095.9	1121.0	1163.7	1230.3	1262.9	1210.7	1142.9	1104.7	1077.0	1078.9
62.5°	1232.9	1237.5	1260.1	1318.8	1399.7	1436.2	1367.0	1276.4	1224.7	1190.2	1191.6
65°	1380.8	1388.7	1413.4	1477.9	1552.5	1591.9	1507.1	1402.5	1338.2	1296.0	1300.4
67.5°	1476.8	1483.8	1519.4	1590.7	1683.6	1716.3	1606.8	1484.9	1404.6	1354.2	1344.9
70°	1452.3	1458.1	1505.7	1606.8	1744.5	1785.7	1630.5	1472.8	1378.2	1320.2	1316.5
72.5°	1282.0	1269.9	1339.3	1484.5	1675.0	1744.2	1555.7	1345.1	1226.1	1166.5	1159.5
75°	849.6	876.0	978.5	1149.5	1417.1	1502.9	1327.9	1080.0	930.2	880.6	872.9
77.5°	284.0	304.3	395.3	651.6	966.1	1094.9	967.5	706.4	499.7	402.6	404.4
80°	75.2	74.3	96.2	179.2	417.5	634.1	486.0	239.3	130.9	94.8	89.9
82.5°	27.0	30.3	38.9	49.6	110.7	197.1	139.1	67.1	49.2	36.3	35.2
85°	11.9	11.6	16.8	19.8	27.7	36.8	32.6	28.4	24.9	16.5	15.4
87.5°	2.6	2.6	4.0	3.0	4.9	4.9	6.1	7.2	7.5	4.9	4.0
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)