

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: P458514

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4499 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

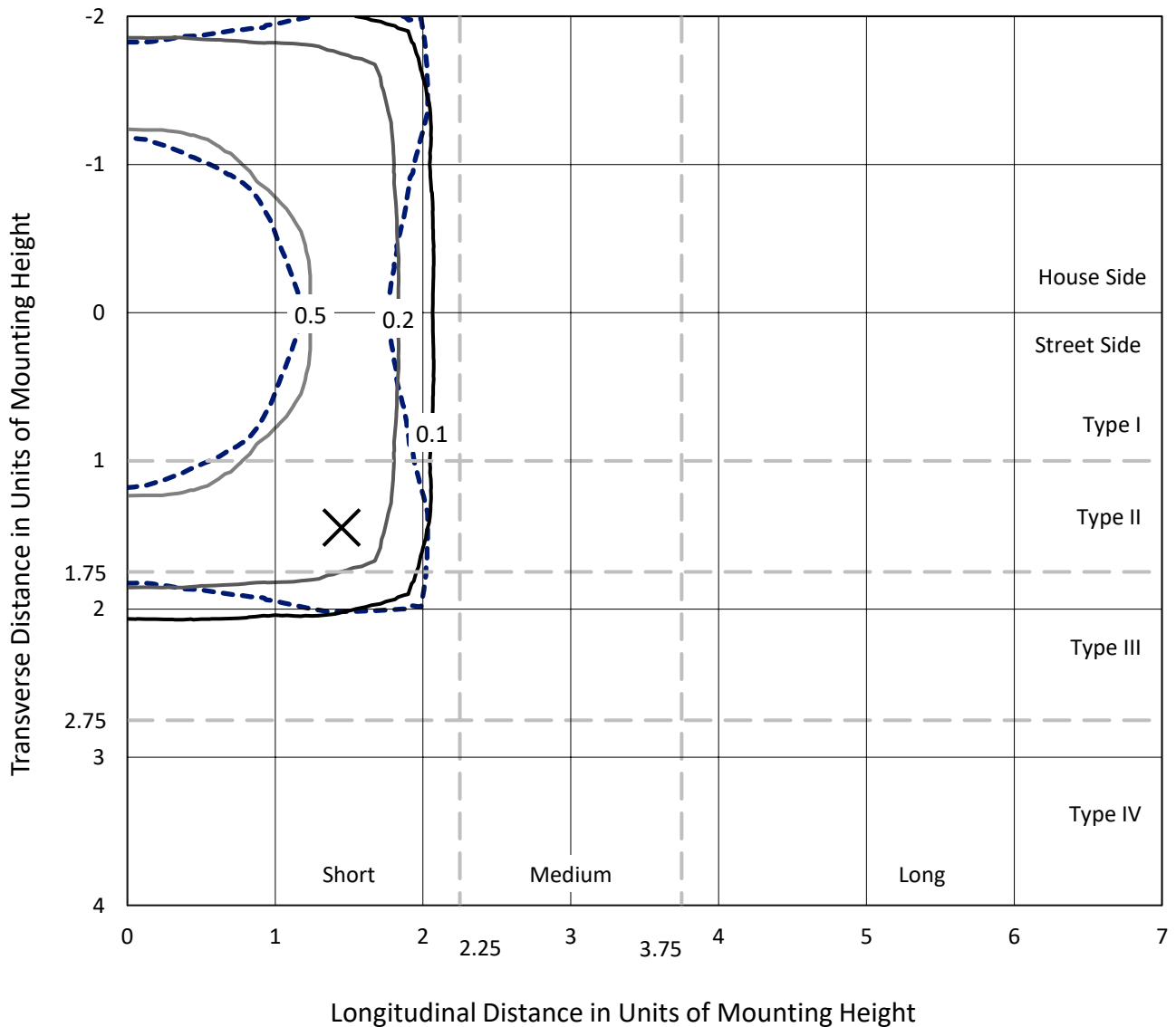
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

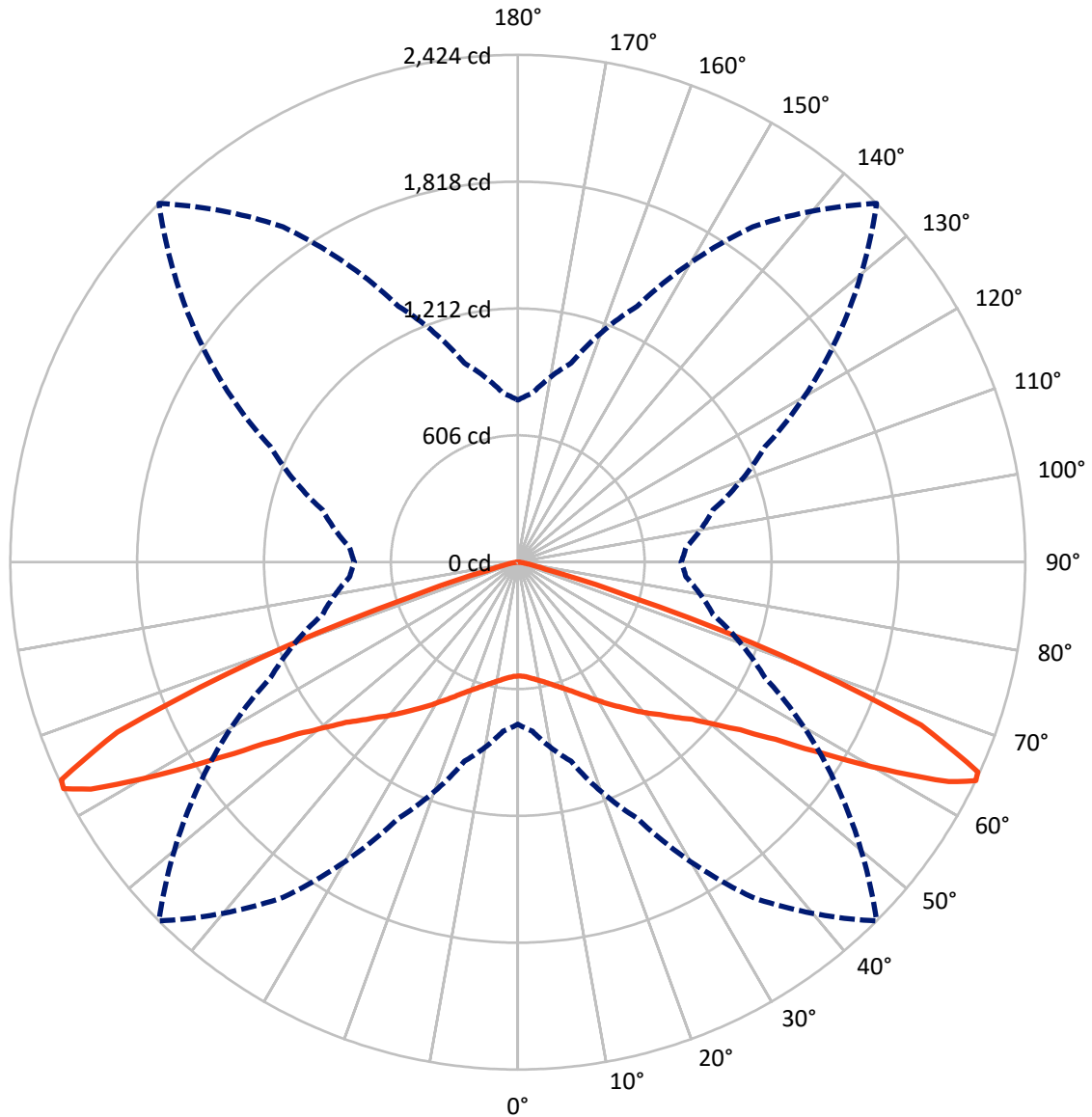
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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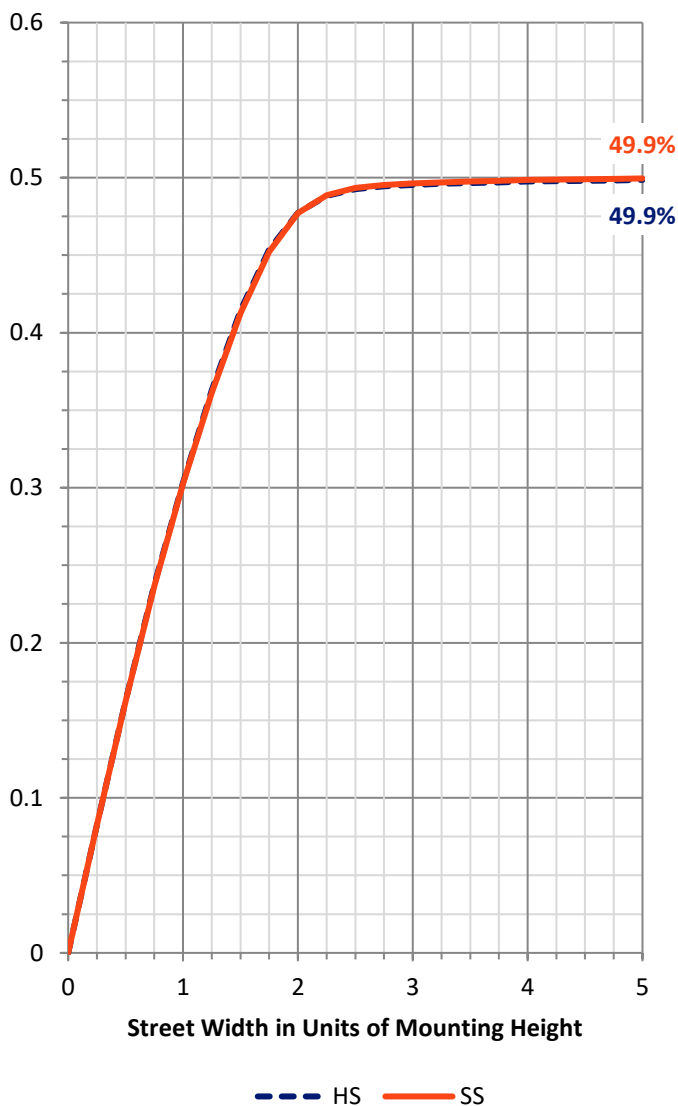
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.5	0.0	2249.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2249.5	0.0	2249.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4499.0	0.0	4499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.2
10°-20°	172.3	3.8
20°-30°	325.6	7.2
30°-40°	539.3	12.0
40°-50°	841.9	18.7
50°-60°	1301.6	28.9
60°-70°	1122.4	24.9
70°-80°	127.2	2.8
80°-90°	15.2	0.3
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°	4499.0	100.0
0°-180°	4499.0	100.0

Coefficient of Utilization



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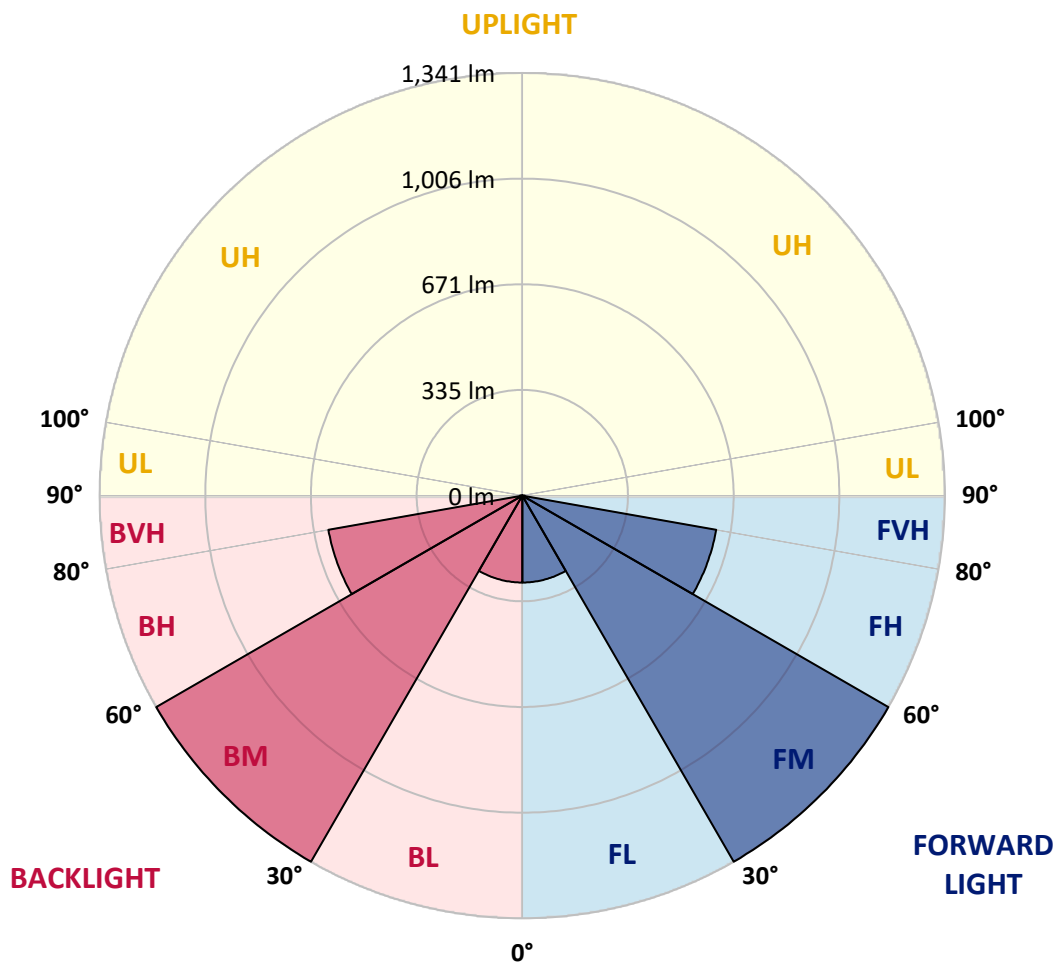
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.7	6.1			
FM	(30°-60°)	1341.4	29.8			
FH	(60°-80°)	624.8	13.9			G0/660
FVH	(80°-90°)	7.6	0.2			G0/10
BL	(0°-30°)	275.7	6.1	B1/500		
BM	(30°-60°)	1341.4	29.8	B2/2500		
BH	(60°-80°)	624.8	13.9	B2/1000		G0/660
BVH	(80°-90°)	7.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	545.9	547.1	546.2	545.9	545.7	545.7	545.7	545.9	546.9	547.6	547.1
5°	552.8	553.8	553.3	553.1	552.8	553.1	552.6	552.4	553.1	553.1	552.8
7.5°	561.4	562.6	562.1	562.6	562.8	563.1	561.9	560.9	560.7	561.4	560.9
10°	573.1	574.0	574.3	574.5	575.0	574.8	573.3	571.7	571.4	571.2	570.9
12.5°	586.2	586.9	587.1	588.1	588.8	589.1	587.4	586.0	583.6	584.1	583.1
15°	601.0	602.4	602.2	603.6	605.5	606.0	604.3	601.9	599.8	598.6	597.9
17.5°	619.1	620.0	619.6	621.0	623.4	624.6	623.1	620.0	617.9	615.3	613.8
20°	640.5	642.2	642.7	642.7	644.8	646.0	643.9	642.9	639.6	637.7	636.5
22.5°	664.8	665.5	667.0	668.4	670.6	670.1	669.4	667.9	664.8	663.2	661.3
25°	692.2	692.9	696.5	699.6	700.3	699.9	698.9	698.2	695.3	691.5	690.1
27.5°	724.2	725.6	730.4	733.2	733.2	733.5	731.6	733.9	727.7	723.2	722.7
30°	764.2	765.2	769.2	772.1	770.6	769.4	769.0	771.3	764.7	756.6	754.7
32.5°	803.8	807.1	810.7	816.9	811.9	809.7	809.2	810.9	803.3	794.2	791.6
35°	846.2	848.6	855.2	860.5	855.9	850.9	853.1	858.3	849.3	837.1	836.6
37.5°	893.1	895.3	903.8	909.3	906.0	897.4	901.0	907.2	898.1	883.1	880.0
40°	942.0	946.5	957.2	962.9	957.5	946.0	952.7	959.4	951.3	933.9	927.0
42.5°	996.8	1003.9	1019.4	1022.3	1011.8	996.3	1008.0	1018.7	1013.0	993.0	990.3
45°	1060.9	1065.2	1084.2	1090.4	1075.9	1056.6	1071.1	1090.7	1086.4	1063.3	1058.2
47.5°	1132.6	1136.6	1156.4	1165.7	1147.4	1121.4	1147.6	1173.1	1170.5	1145.7	1143.3
50°	1217.4	1218.4	1245.8	1256.3	1237.9	1215.5	1238.9	1270.6	1260.1	1228.4	1227.9
52.5°	1310.4	1311.6	1346.1	1366.4	1356.1	1330.9	1358.5	1377.8	1351.1	1309.6	1306.5
55°	1390.9	1396.9	1444.0	1497.9	1512.0	1493.6	1501.9	1492.9	1427.1	1369.0	1359.9
57.5°	1423.8	1435.5	1507.2	1607.7	1699.3	1726.4	1662.1	1575.8	1457.4	1375.2	1366.4
60°	1343.5	1356.1	1467.4	1658.3	1891.8	2009.7	1828.9	1589.9	1388.5	1272.9	1259.1
62.5°	1075.9	1079.5	1243.2	1539.4	2004.0	2309.5	1899.2	1470.0	1188.1	1031.1	1025.6
64°	774.2	810.9	984.4	1349.7	1954.9	2423.7	1858.7	1302.0	965.1	806.1	780.4
65°	579.0	589.1	793.5	1152.6	1868.4	2415.1	1780.0	1141.4	799.2	616.9	588.3
67.5°	218.8	219.9	292.9	574.5	1330.1	2077.9	1358.5	621.0	336.7	243.5	234.7
70°	90.8	92.5	107.5	193.3	571.7	1334.2	655.1	224.0	123.2	99.8	98.4
72.5°	66.5	67.4	72.0	85.8	175.9	547.8	215.4	95.1	72.2	64.6	63.9
75°	52.2	52.7	56.0	63.1	82.0	151.8	89.6	65.3	55.0	49.6	49.1
77.5°	39.8	41.0	43.4	48.1	55.0	72.0	59.3	48.8	42.4	37.9	37.2
80°	27.4	28.8	33.4	35.3	36.9	46.7	40.5	36.9	33.1	27.6	26.0
82.5°	16.9	17.9	22.4	24.1	23.4	26.2	26.0	26.5	23.6	17.2	16.0
85°	8.8	9.3	12.2	12.6	11.7	10.7	13.3	15.5	14.5	9.8	9.5
87.5°	1.9	2.1	2.6	2.4	2.6	2.6	3.3	5.0	5.2	3.3	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)