

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: P450451

Luminaire Tested: **GALN-SA1B-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450451
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-SA1B-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5500 lumens
Efficiency: N/A
Efficacy: 125.0 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

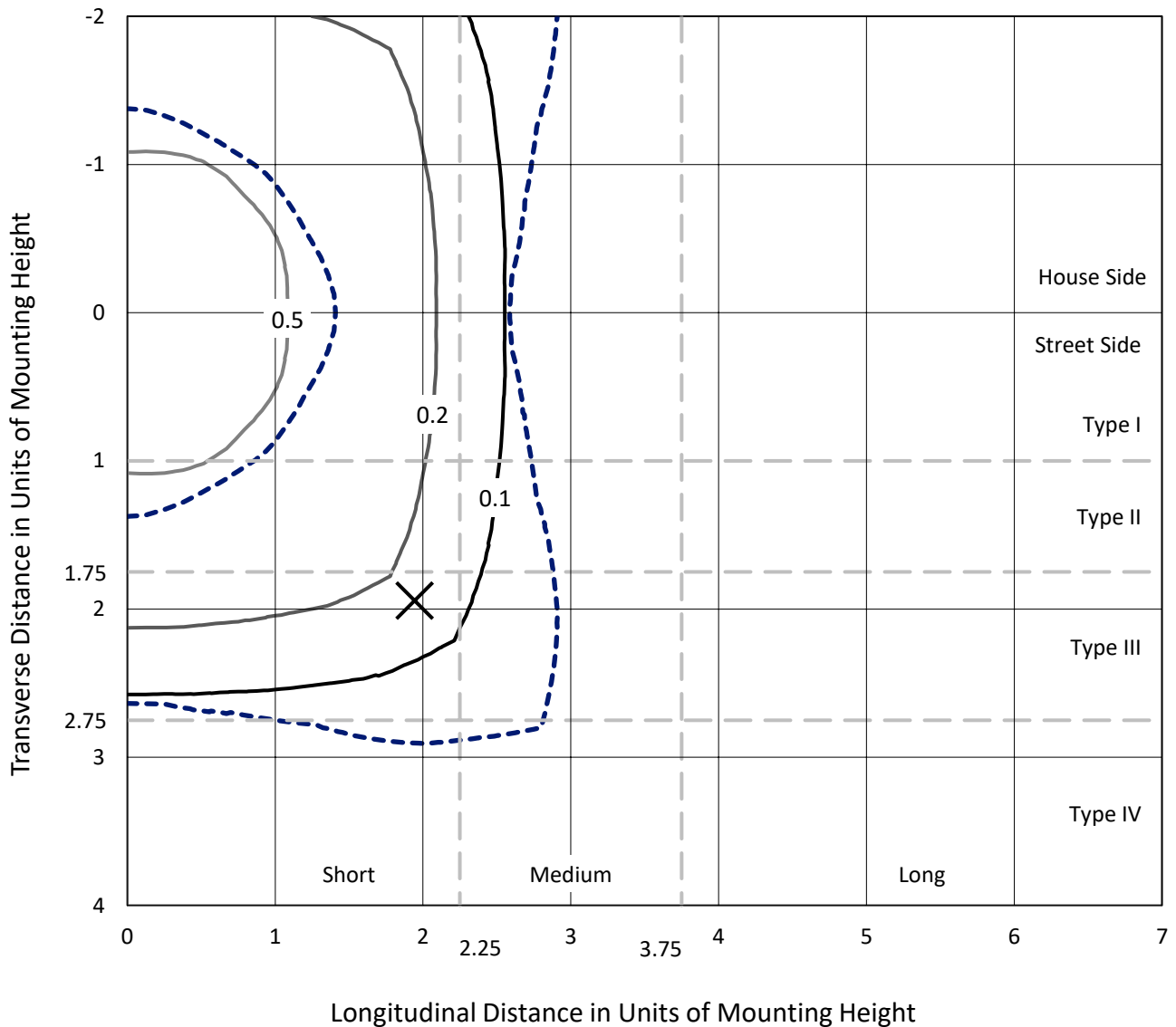
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

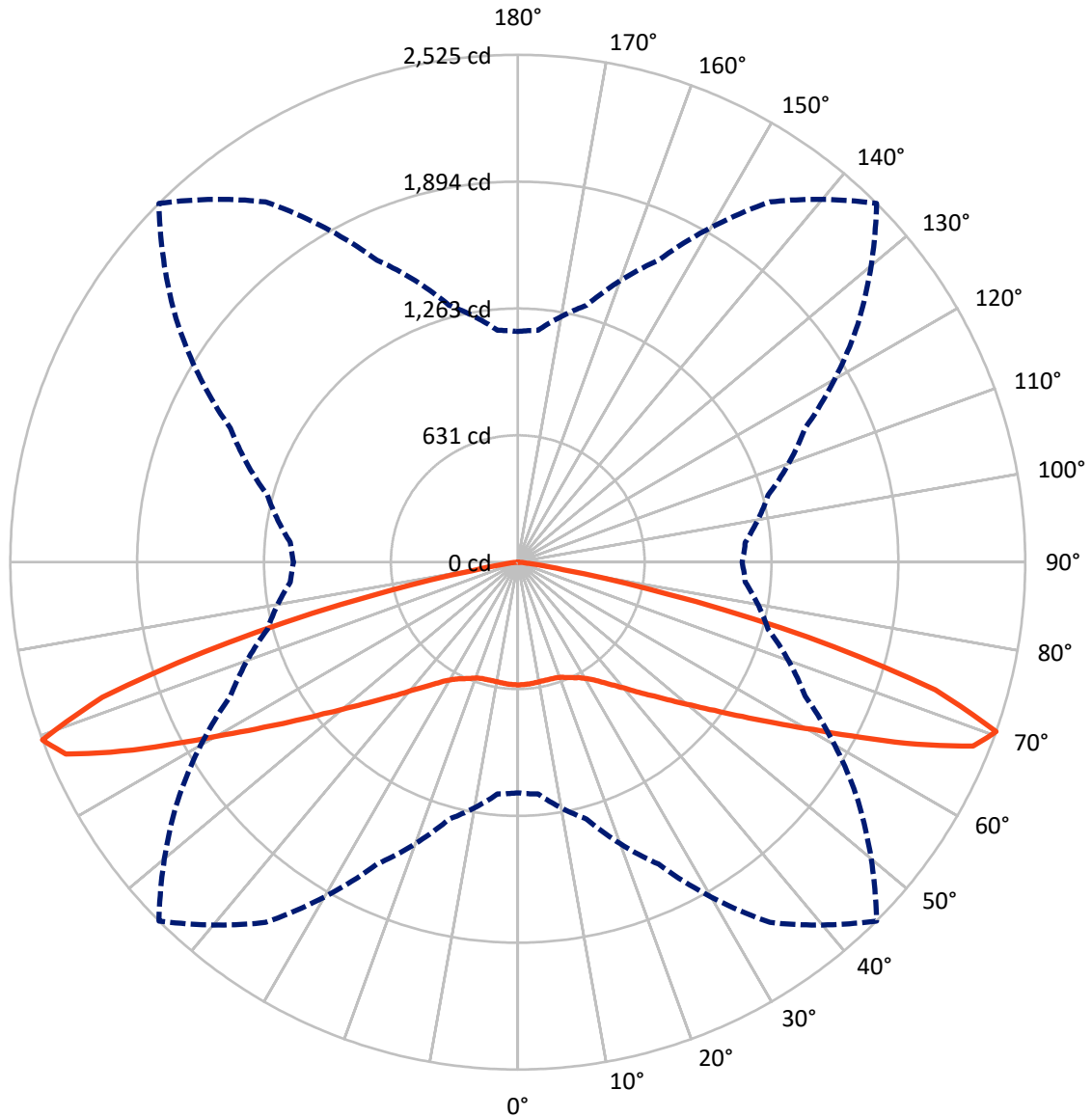
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	2750.0	0.0	2750.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2750.0	0.0	2750.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5500.0	0.0	5500.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	170.0	3.1
20°-30°	290.7	5.3
30°-40°	461.4	8.4
40°-50°	744.3	13.5
50°-60°	1211.0	22.0
60°-70°	1755.5	31.9
70°-80°	778.7	14.2
80°-90°	30.7	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°	5500.0	100.0
0°-180°	5500.0	100.0



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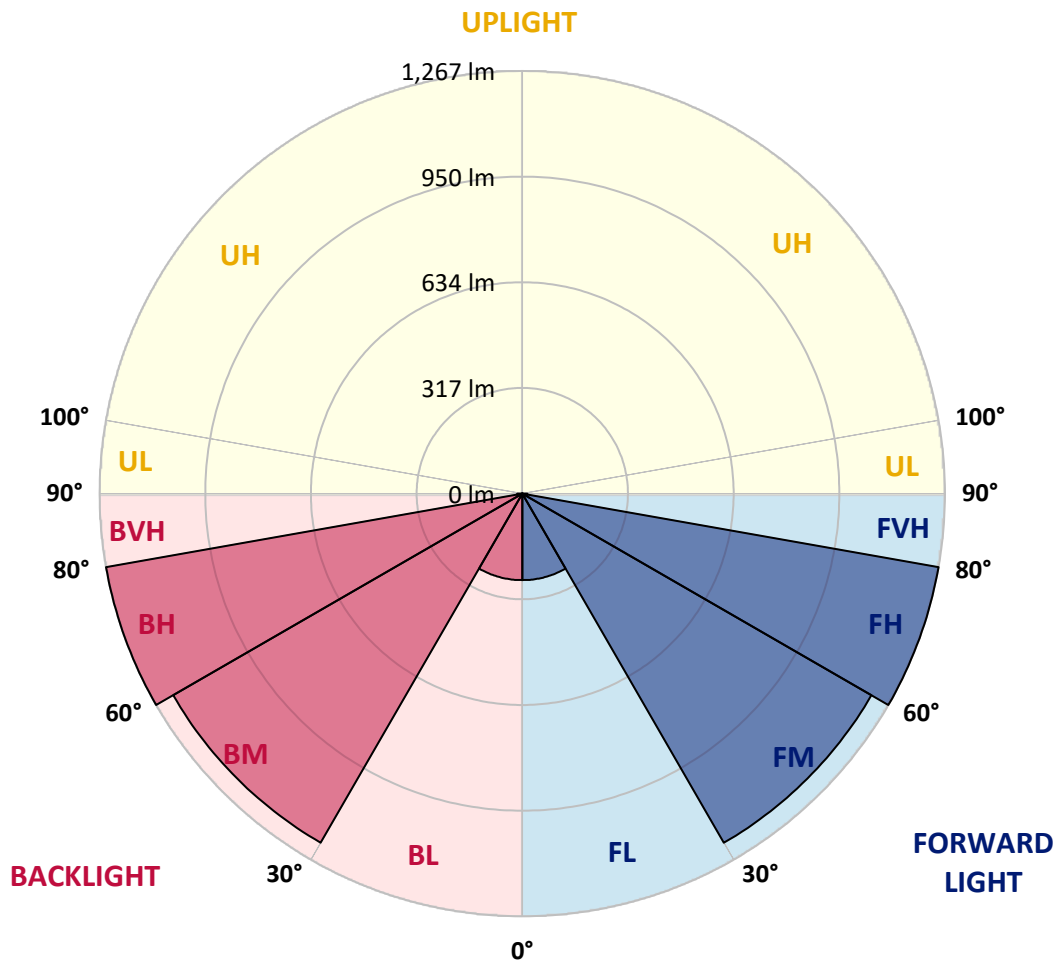
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.3	4.7			
FM (30°-60°)	1208.3	22.0			
FH (60°-80°)	1267.1	23.0			G1/1800
FVH (80°-90°)	15.4	0.3			G1/100
BL (0°-30°)	259.3	4.7	B1/500		
BM (30°-60°)	1208.3	22.0	B2/2500		
BH (60°-80°)	1267.1	23.0	B3/2500		G1/1800
BVH (80°-90°)	15.4	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°	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7	610.7
2.5°	610.7	611.3	610.5	609.9	609.6	609.6	609.3	609.6	611.3	611.6	610.7
5°	609.0	609.6	609.3	608.7	608.4	608.4	608.1	607.9	609.3	609.9	609.6
7.5°	606.7	607.0	606.7	606.4	606.7	606.4	605.5	605.0	606.1	606.1	605.8
10°	602.6	603.2	602.9	603.2	603.8	603.8	602.6	601.5	601.8	601.2	601.2
12.5°	597.7	598.6	598.9	600.0	601.5	603.2	600.6	598.0	597.4	597.1	596.8
15°	594.5	595.4	596.5	597.7	600.3	604.1	600.3	596.3	595.1	593.9	593.4
17.5°	593.6	594.8	596.5	598.3	601.8	605.5	602.3	598.3	595.4	593.6	593.1
20°	596.0	596.8	599.4	602.6	607.6	611.3	608.1	603.8	599.4	596.8	596.0
22.5°	600.6	602.1	605.2	611.0	618.0	623.5	619.2	611.9	605.0	601.5	600.3
25°	610.7	611.9	615.7	623.5	631.6	636.8	632.2	623.8	614.2	609.6	608.1
27.5°	626.1	627.9	631.9	641.2	647.9	650.8	647.6	641.8	634.8	629.9	628.7
30°	647.9	649.9	656.0	665.8	670.2	671.9	670.5	666.7	661.8	656.5	655.4
32.5°	677.1	678.3	685.2	694.5	698.6	699.2	697.4	695.7	687.6	678.9	678.3
35°	709.9	711.9	720.3	731.3	735.1	735.4	731.9	729.3	719.7	712.8	712.8
37.5°	753.4	754.2	762.3	774.8	778.9	777.7	776.0	773.7	763.5	754.5	754.8
40°	804.4	806.1	813.1	827.6	827.6	826.1	827.3	825.5	815.4	806.7	807.0
42.5°	865.0	865.8	874.2	889.6	888.4	885.5	886.7	884.4	878.0	868.2	864.7
45°	929.6	933.1	947.6	962.4	960.0	950.8	955.4	954.8	949.0	934.2	935.1
47.5°	1007.6	1013.4	1027.3	1045.0	1042.4	1027.9	1033.1	1036.6	1028.4	1012.2	1009.3
50°	1095.4	1099.2	1119.8	1136.3	1134.0	1118.6	1130.5	1131.1	1110.8	1087.9	1087.9
52.5°	1189.0	1192.8	1220.6	1246.4	1247.9	1225.6	1235.1	1234.5	1201.5	1171.4	1165.6
55°	1294.0	1295.7	1331.6	1369.6	1377.7	1356.0	1357.2	1345.6	1302.7	1267.6	1264.4
57.5°	1402.4	1408.8	1448.5	1497.7	1521.8	1508.5	1502.4	1471.4	1429.9	1389.6	1387.6
60°	1522.4	1522.7	1574.3	1632.5	1681.2	1690.2	1665.3	1623.8	1570.2	1516.9	1514.6
62.5°	1605.6	1618.0	1683.3	1781.8	1869.1	1919.5	1853.7	1766.7	1661.2	1575.1	1566.4
65°	1622.7	1631.1	1730.5	1897.5	2075.7	2184.4	2032.3	1847.3	1667.3	1552.5	1546.7
67.5°	1484.4	1493.4	1627.3	1883.6	2220.7	2443.6	2148.2	1808.5	1564.1	1422.1	1410.8
70°	1148.2	1158.3	1323.8	1658.0	2188.5	2525.0	2065.6	1577.5	1289.9	1136.6	1116.0
72.5°	610.5	647.9	789.3	1138.0	1776.3	2174.0	1693.7	1151.1	831.9	680.0	652.8
75°	222.9	227.5	306.4	504.7	1033.4	1490.8	1073.1	549.0	315.7	243.8	231.3
77.5°	92.2	91.9	100.9	152.5	375.4	763.5	418.9	161.2	100.6	93.0	91.9
80°	54.5	54.5	60.0	63.5	98.8	230.4	110.4	71.9	60.3	55.1	55.9
82.5°	24.3	25.8	38.0	40.0	47.8	63.2	53.3	45.8	39.4	27.2	24.6
85°	13.3	11.6	20.0	20.9	22.9	23.5	25.2	24.9	22.9	13.3	13.6
87.5°	2.6	3.2	5.8	4.3	4.9	4.3	5.8	8.1	8.4	4.6	3.8
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)