

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: P451642

Luminaire Tested: **GALN-SA2C-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451642
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-SA2C-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14797 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

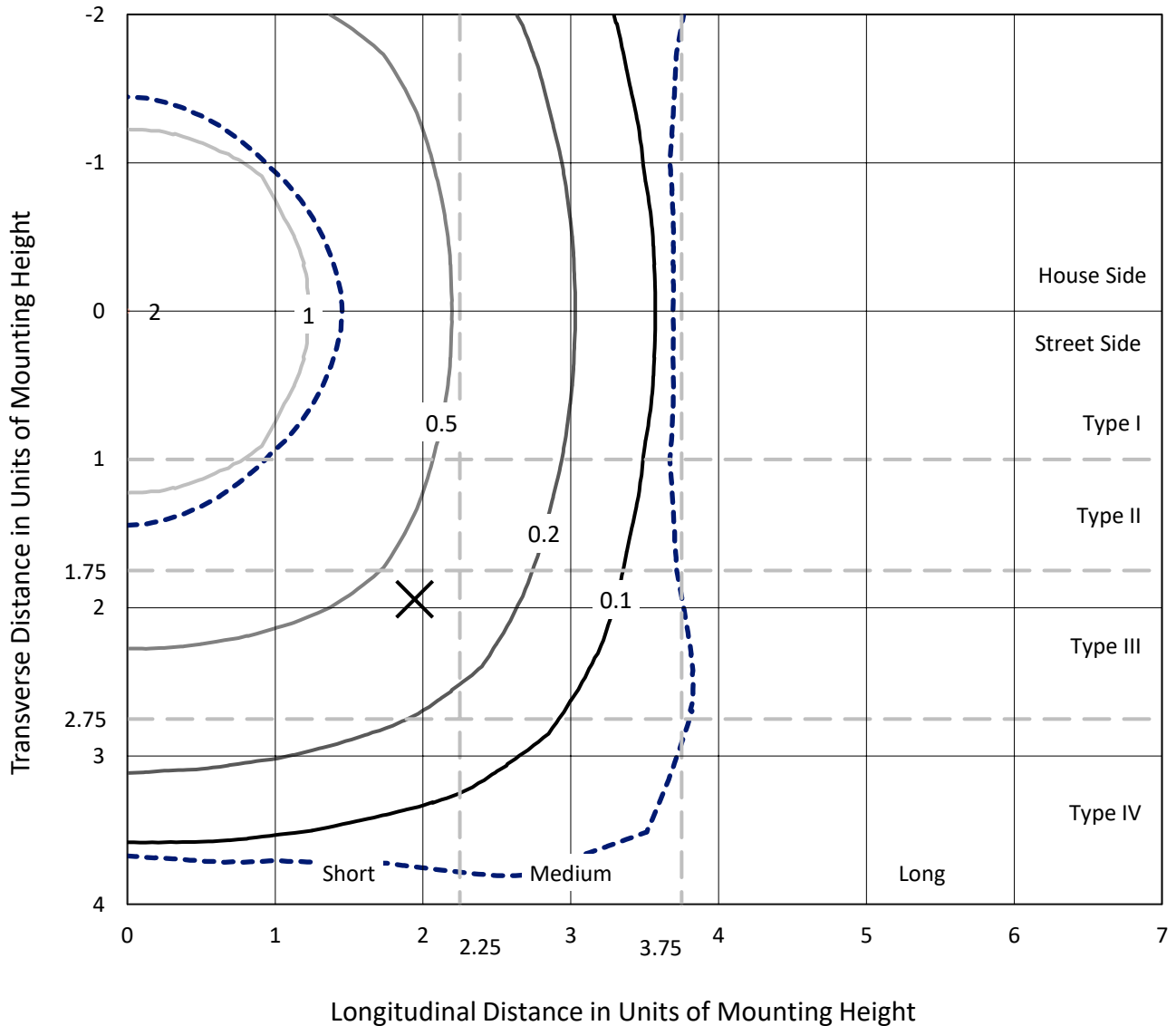
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

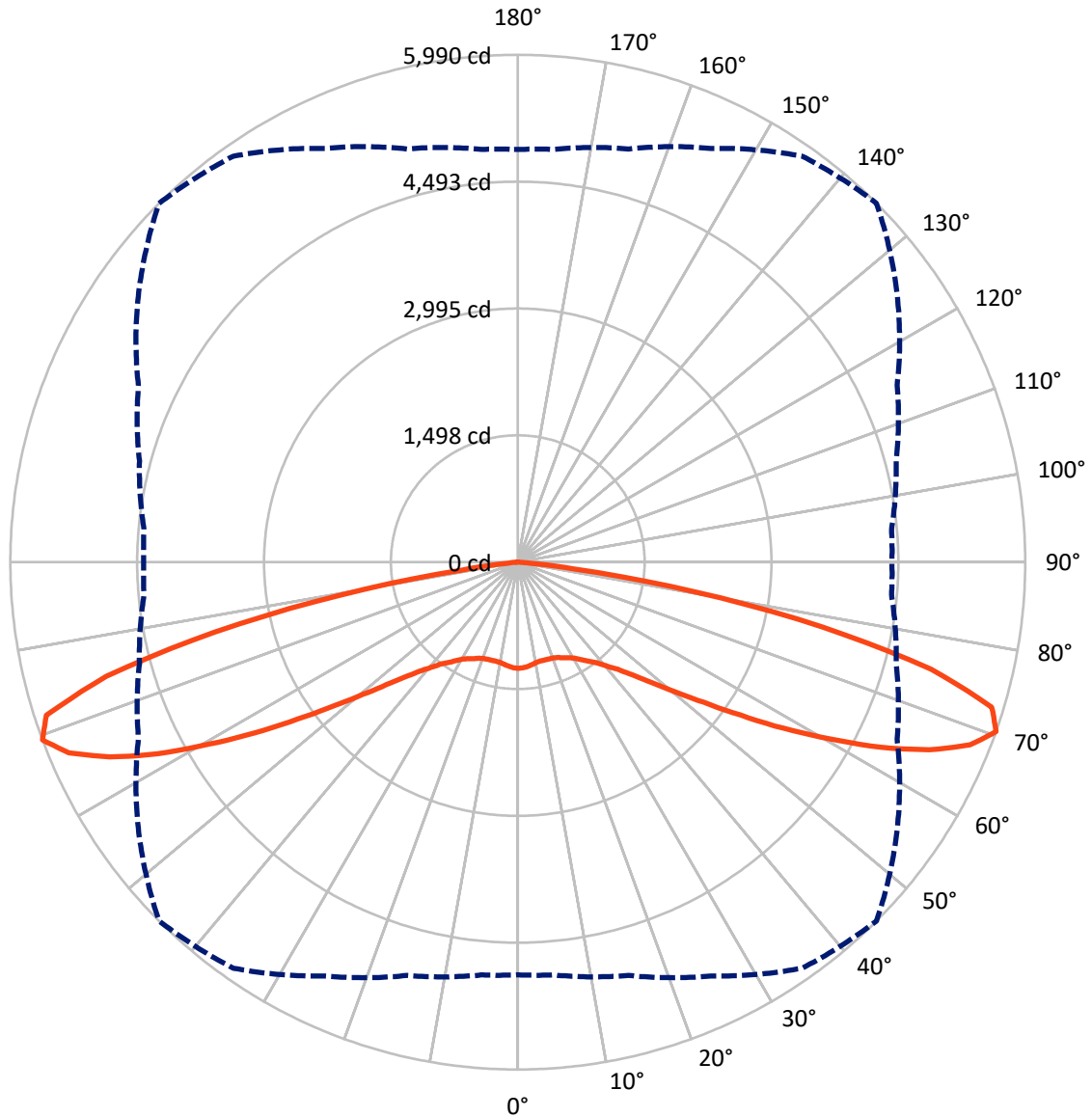
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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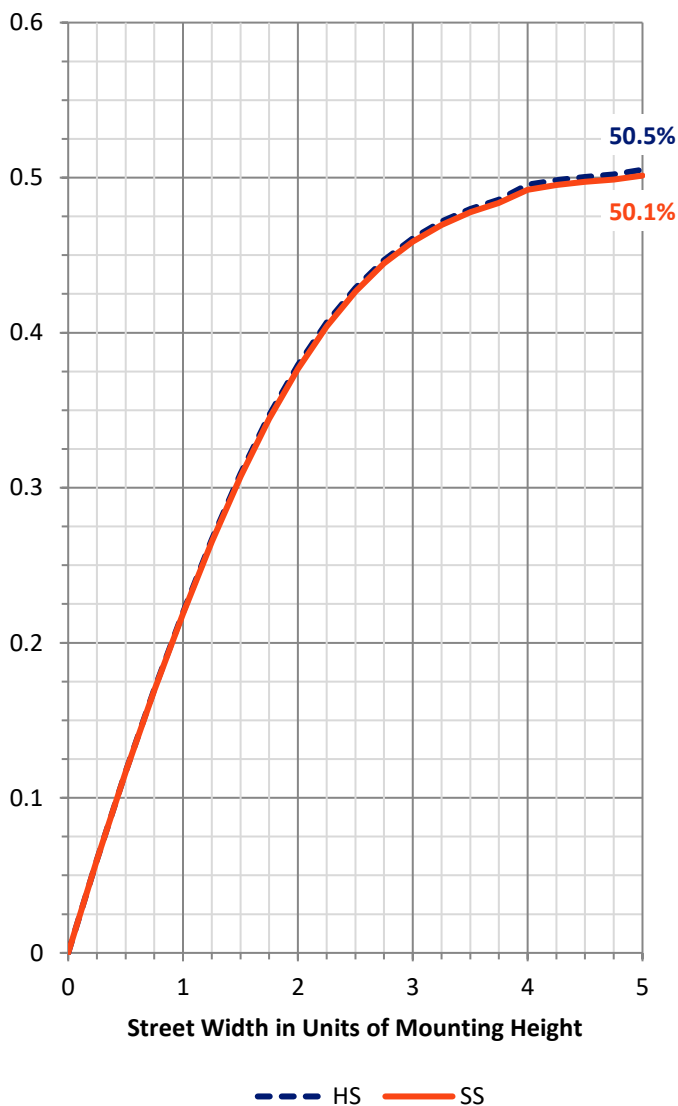
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7398.5	0.0	7398.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7398.5	0.0	7398.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14797.0	0.0	14797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	0.8
10°-20°	343.0	2.3
20°-30°	584.4	3.9
30°-40°	905.7	6.1
40°-50°	1524.5	10.3
50°-60°	2773.8	18.7
60°-70°	4695.9	31.7
70°-80°	3634.8	24.6
80°-90°	217.8	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°	14797.0	100.0
0°-180°	14797.0	100.0

Coefficient of Utilization



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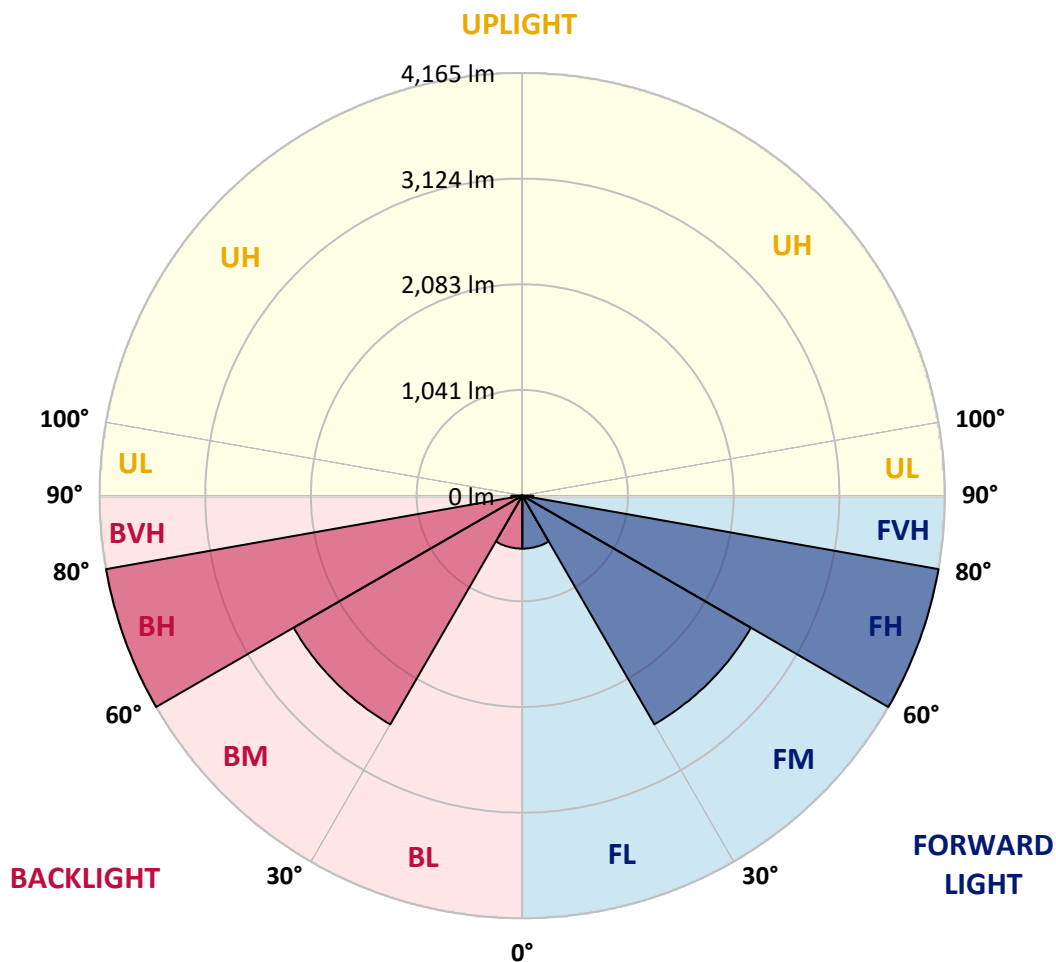
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.2	3.5			
FM	(30°-60°)	2602.0	17.6			
FH	(60°-80°)	4165.4	28.1			G2/5000
FVH	(80°-90°)	108.9	0.7			G2/225
BL	(0°-30°)	522.2	3.5	B2/1000		
BM	(30°-60°)	2602.0	17.6	B3/5000		
BH	(60°-80°)	4165.4	28.1	B4/5000		G2/5000
BVH	(80°-90°)	108.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7
2.5°	1249.6	1250.4	1250.4	1248.8	1248.1	1248.1	1247.3	1247.3	1249.6	1250.4	1251.2
5°	1238.7	1238.7	1238.7	1237.9	1236.3	1236.3	1234.8	1234.8	1235.6	1237.9	1236.3
7.5°	1223.8	1225.4	1225.4	1222.3	1219.9	1219.9	1219.1	1219.9	1220.7	1223.1	1222.3
10°	1219.1	1219.9	1216.0	1210.5	1206.6	1204.3	1205.1	1206.6	1210.5	1212.1	1212.9
12.5°	1222.3	1222.3	1215.2	1207.4	1200.4	1197.3	1196.5	1201.9	1209.0	1213.7	1215.2
15°	1226.2	1224.6	1216.0	1205.9	1198.8	1198.0	1197.3	1201.2	1211.3	1220.7	1221.5
17.5°	1228.5	1227.7	1216.8	1204.3	1200.4	1200.4	1199.6	1202.7	1213.7	1225.4	1226.2
20°	1236.3	1234.0	1221.5	1208.2	1205.1	1206.6	1204.3	1208.2	1219.9	1234.0	1237.1
22.5°	1252.0	1249.6	1237.1	1223.8	1222.3	1222.3	1221.5	1225.4	1237.9	1252.7	1255.1
25°	1270.7	1268.4	1256.7	1247.3	1248.8	1252.0	1250.4	1251.2	1261.3	1273.8	1277.8
27.5°	1295.7	1291.8	1281.7	1273.8	1278.5	1278.5	1278.5	1277.8	1284.0	1295.7	1299.6
30°	1326.2	1324.6	1313.7	1312.9	1316.8	1312.9	1312.9	1313.7	1314.5	1325.4	1329.3
32.5°	1366.1	1362.9	1357.5	1355.9	1366.8	1370.0	1359.0	1348.9	1354.3	1365.3	1367.6
35°	1431.7	1427.0	1419.2	1410.6	1419.2	1434.1	1410.6	1402.8	1416.9	1431.7	1433.3
37.5°	1520.8	1518.5	1506.0	1490.3	1489.5	1505.2	1480.9	1480.2	1506.7	1524.7	1527.1
40°	1632.6	1634.9	1619.3	1604.4	1596.6	1609.1	1590.4	1597.4	1623.2	1643.5	1641.9
42.5°	1789.6	1781.0	1756.8	1742.7	1734.2	1729.5	1724.8	1735.7	1764.6	1786.5	1803.7
45°	1973.3	1970.2	1939.7	1922.5	1903.7	1896.7	1895.1	1914.7	1949.8	1976.4	1978.8
47.5°	2181.2	2174.1	2154.6	2136.6	2129.6	2121.0	2113.2	2128.0	2163.2	2182.0	2187.4
50°	2395.3	2396.9	2396.9	2393.7	2400.8	2402.3	2381.2	2386.7	2406.2	2404.7	2403.1
52.5°	2639.9	2648.5	2689.1	2693.1	2726.7	2749.3	2711.0	2688.4	2681.3	2639.1	2642.3
55°	2927.5	2935.3	2996.3	3057.2	3147.9	3186.2	3105.7	3035.4	2985.3	2921.3	2924.4
57.5°	3286.2	3290.1	3348.0	3465.2	3609.0	3698.8	3557.4	3418.3	3316.7	3255.7	3231.5
60°	3672.3	3676.2	3760.6	3903.6	4127.1	4236.5	4061.5	3834.0	3705.9	3612.9	3619.1
62.5°	4135.7	4151.3	4227.1	4424.1	4695.3	4818.0	4585.9	4281.8	4108.4	3992.7	3997.4
65°	4632.0	4658.5	4741.4	4957.8	5207.9	5340.0	5055.5	4704.6	4488.9	4347.5	4362.3
67.5°	4953.9	4977.4	5097.0	5336.1	5647.9	5757.3	5390.0	4981.3	4711.7	4542.9	4511.6
70°	4871.9	4891.4	5050.8	5390.0	5851.9	5990.2	5469.7	4940.7	4623.4	4428.8	4416.3
72.5°	4300.6	4260.0	4492.9	4979.7	5619.0	5851.1	5218.9	4512.4	4113.0	3913.0	3889.5
75°	2850.1	2938.4	3282.3	3855.9	4753.9	5041.5	4454.6	3623.0	3120.5	2954.1	2928.3
77.5°	952.7	1020.6	1326.2	2185.9	3240.9	3673.1	3245.6	2369.5	1676.3	1350.4	1356.7
80°	252.4	249.3	322.8	601.0	1400.5	2127.2	1630.2	802.6	439.2	318.1	301.7
82.5°	90.7	101.6	130.5	166.5	371.2	661.2	466.6	225.1	164.9	121.9	118.0
85°	39.9	39.1	56.3	66.4	93.0	123.5	109.4	95.3	83.6	55.5	51.6
87.5°	8.6	8.6	13.3	10.2	16.4	16.4	20.3	24.2	25.0	16.4	13.3
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)