

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: P451845

Luminaire Tested: **GALN-SA2D-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451845
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-SA2D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14828 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

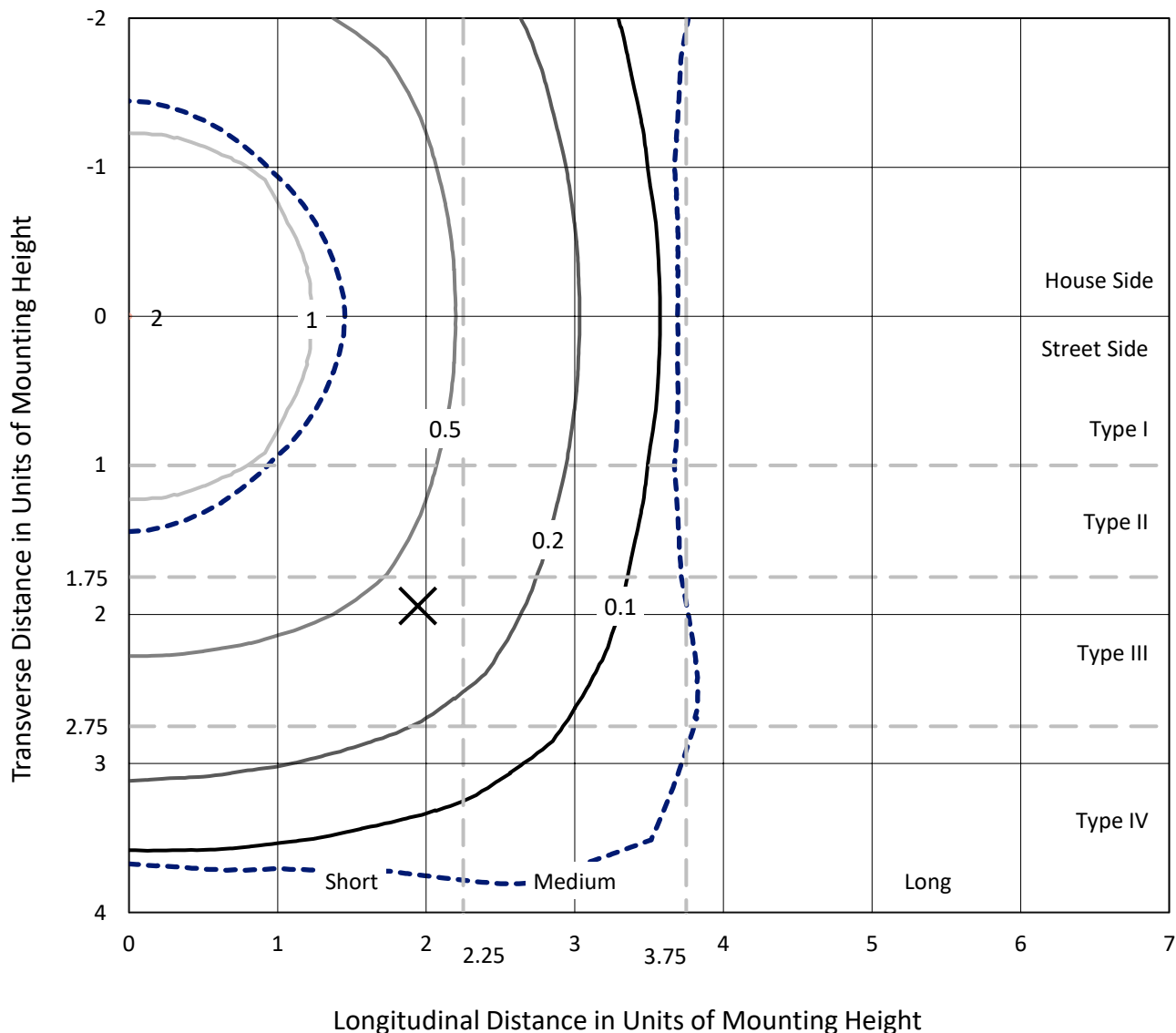
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

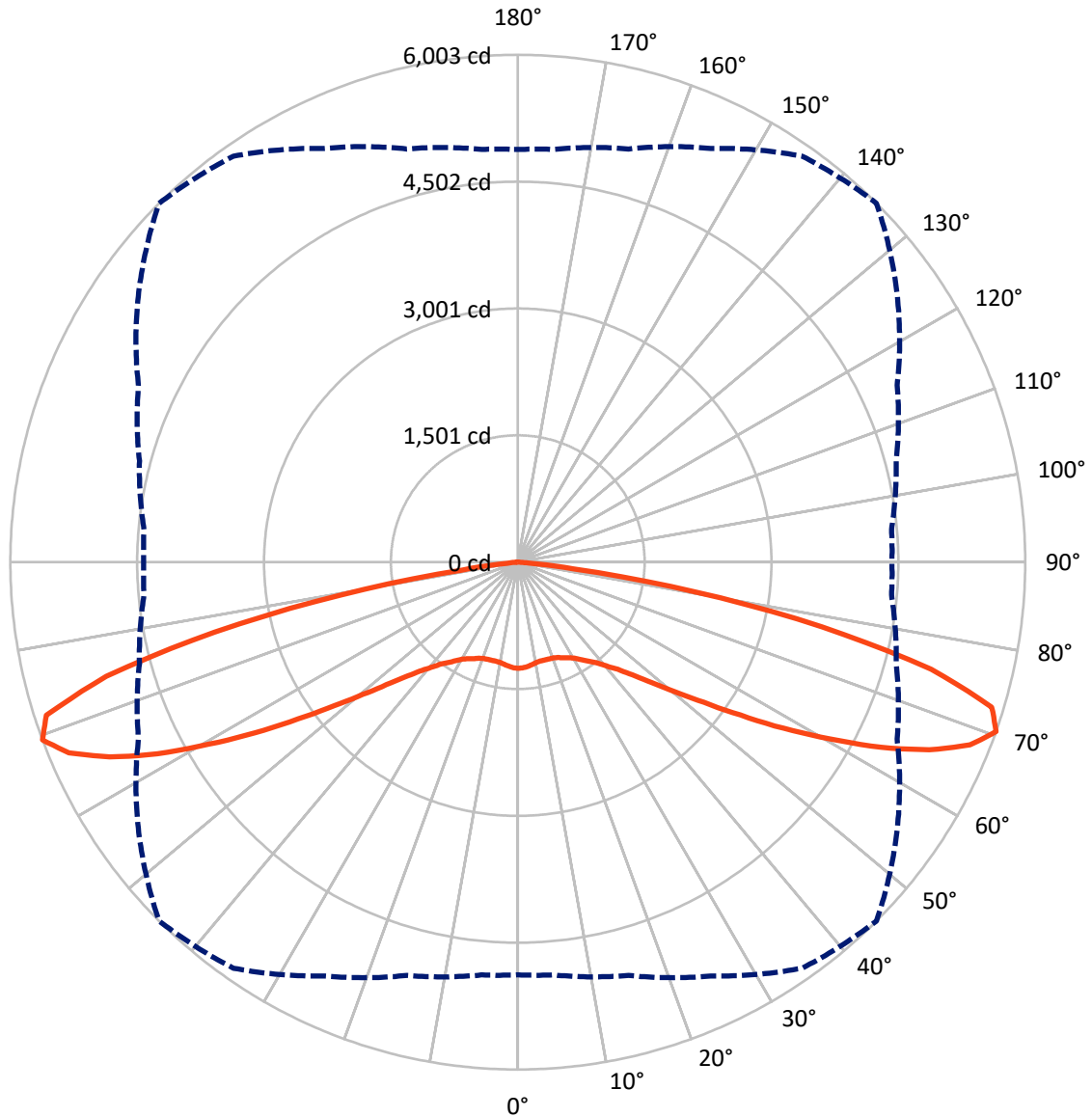
× Max cd
 - - - 1/2 Max cd



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	7414.0	0.0	7414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7414.0	0.0	7414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14828.0	0.0	14828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	0.8
10°-20°	343.7	2.3
20°-30°	585.6	3.9
30°-40°	907.6	6.1
40°-50°	1527.7	10.3
50°-60°	2779.6	18.7
60°-70°	4705.7	31.7
70°-80°	3642.4	24.6
80°-90°	218.3	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°	14828.0	100.0
0°-180°	14828.0	100.0



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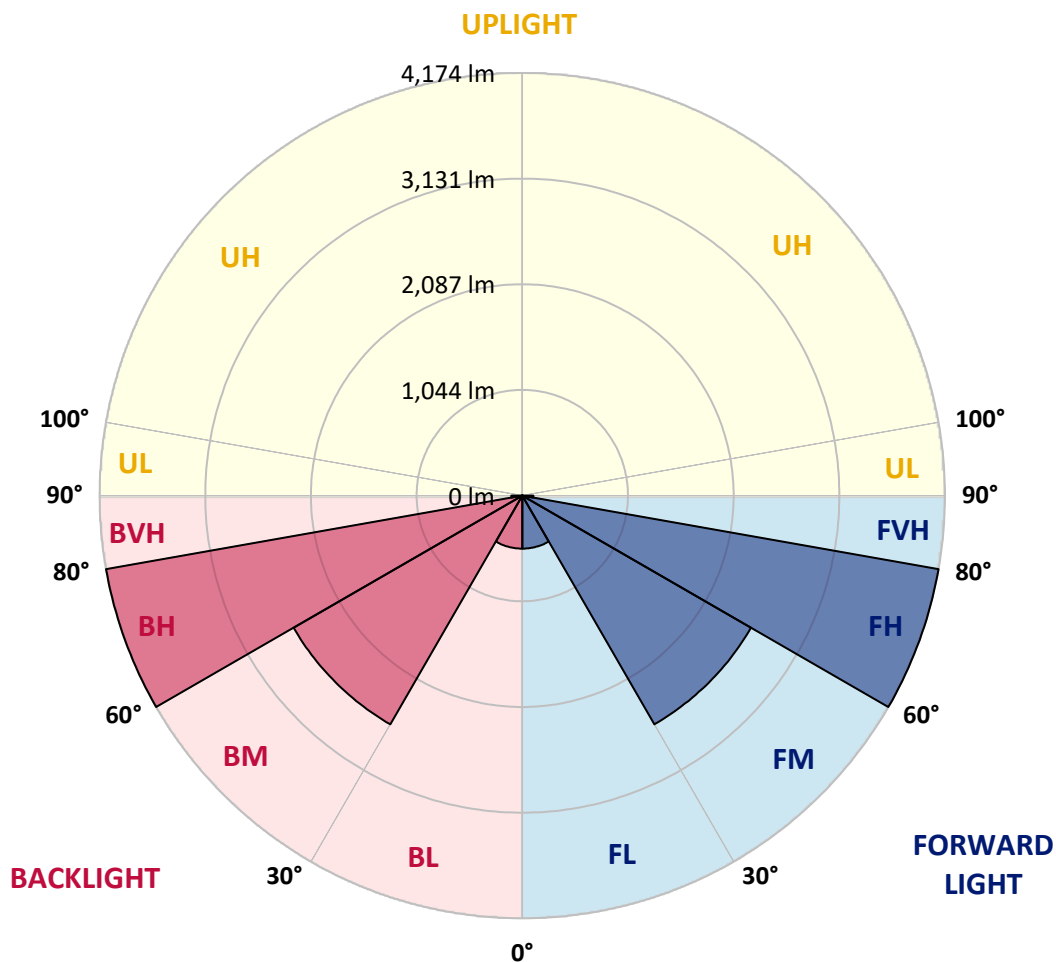
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.3	3.5			
FM (30°-60°)	2607.5	17.6			
FH (60°-80°)	4174.1	28.1			G2/5000
FVH (80°-90°)	109.1	0.7			G2/225
BL (0°-30°)	523.3	3.5	B2/1000		
BM (30°-60°)	2607.5	17.6	B3/5000		
BH (60°-80°)	4174.1	28.1	B4/5000		G2/5000
BVH (80°-90°)	109.1	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°	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4
2.5°	1252.2	1253.0	1253.0	1251.5	1250.7	1250.7	1249.9	1249.9	1252.2	1253.0	1253.8
5°	1241.3	1241.3	1241.3	1240.5	1238.9	1238.9	1237.4	1237.4	1238.1	1240.5	1238.9
7.5°	1226.4	1228.0	1228.0	1224.8	1222.5	1222.5	1221.7	1222.5	1223.3	1225.6	1224.8
10°	1221.7	1222.5	1218.6	1213.1	1209.2	1206.8	1207.6	1209.2	1213.1	1214.6	1215.4
12.5°	1224.8	1224.8	1217.8	1209.9	1202.9	1199.8	1199.0	1204.5	1211.5	1216.2	1217.8
15°	1228.7	1227.2	1218.6	1208.4	1201.3	1200.6	1199.8	1203.7	1213.9	1223.3	1224.0
17.5°	1231.1	1230.3	1219.3	1206.8	1202.9	1202.9	1202.1	1205.3	1216.2	1228.0	1228.7
20°	1238.9	1236.6	1224.0	1210.7	1207.6	1209.2	1206.8	1210.7	1222.5	1236.6	1239.7
22.5°	1254.6	1252.2	1239.7	1226.4	1224.8	1224.8	1224.0	1228.0	1240.5	1255.4	1257.7
25°	1273.4	1271.0	1259.3	1249.9	1251.5	1254.6	1253.0	1253.8	1264.0	1276.5	1280.4
27.5°	1298.4	1294.5	1284.3	1276.5	1281.2	1281.2	1281.2	1280.4	1286.7	1298.4	1302.4
30°	1329.0	1327.4	1316.5	1315.7	1319.6	1315.7	1315.7	1316.5	1317.2	1328.2	1332.1
32.5°	1368.9	1365.8	1360.3	1358.7	1369.7	1372.8	1361.9	1351.7	1357.2	1368.1	1370.5
35°	1434.7	1430.0	1422.2	1413.6	1422.2	1437.1	1413.6	1405.7	1419.8	1434.7	1436.3
37.5°	1524.0	1521.6	1509.1	1493.4	1492.7	1508.3	1484.0	1483.3	1509.9	1527.9	1530.3
40°	1636.0	1638.3	1622.7	1607.8	1600.0	1612.5	1593.7	1600.7	1626.6	1646.9	1645.4
42.5°	1793.4	1784.8	1760.5	1746.4	1737.8	1733.1	1728.4	1739.4	1768.3	1790.3	1807.5
45°	1977.4	1974.3	1943.8	1926.5	1907.7	1900.7	1899.1	1918.7	1953.9	1980.6	1982.9
47.5°	2185.7	2178.7	2159.1	2141.1	2134.1	2125.4	2117.6	2132.5	2167.7	2186.5	2192.0
50°	2400.3	2401.9	2401.9	2398.8	2405.8	2407.4	2386.2	2391.7	2411.3	2409.7	2408.2
52.5°	2645.4	2654.1	2694.8	2698.7	2732.4	2755.1	2716.7	2694.0	2686.9	2644.7	2647.8
55°	2933.6	2941.5	3002.6	3063.6	3154.5	3192.9	3112.2	3041.7	2991.6	2927.4	2930.5
57.5°	3293.1	3297.0	3355.0	3472.4	3616.5	3706.6	3564.8	3425.4	3323.6	3262.6	3238.3
60°	3680.0	3683.9	3768.5	3911.8	4135.8	4245.4	4070.0	3842.1	3713.6	3620.5	3626.7
62.5°	4144.4	4160.0	4236.0	4433.3	4705.1	4828.1	4595.5	4290.8	4117.0	4001.1	4005.8
65°	4641.7	4668.3	4751.3	4968.2	5218.8	5351.2	5066.1	4714.5	4498.4	4356.6	4371.5
67.5°	4964.3	4987.8	5107.6	5347.3	5659.7	5769.4	5401.3	4991.7	4721.5	4552.4	4521.1
70°	4882.1	4901.7	5061.4	5401.3	5864.1	6002.8	5481.2	4951.0	4633.1	4438.0	4425.5
72.5°	4309.6	4268.9	4502.3	4990.2	5630.8	5863.4	5229.8	4521.8	4121.7	3921.2	3897.7
75°	2856.1	2944.6	3289.2	3864.0	4763.8	5052.0	4463.9	3630.6	3127.1	2960.3	2934.4
77.5°	954.6	1022.8	1329.0	2190.4	3247.7	3680.8	3252.4	2374.5	1679.8	1353.3	1359.5
80°	253.0	249.8	323.4	602.2	1403.4	2131.7	1633.6	804.3	440.1	318.7	302.3
82.5°	90.8	101.8	130.8	166.8	372.0	662.5	467.5	225.5	165.2	122.2	118.3
85°	39.9	39.2	56.4	66.6	93.2	123.7	109.6	95.5	83.8	55.6	51.7
87.5°	8.6	8.6	13.3	10.2	16.4	16.4	20.4	24.3	25.1	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)