

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: P450931

Luminaire Tested: **GALN-SA1D-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7116 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

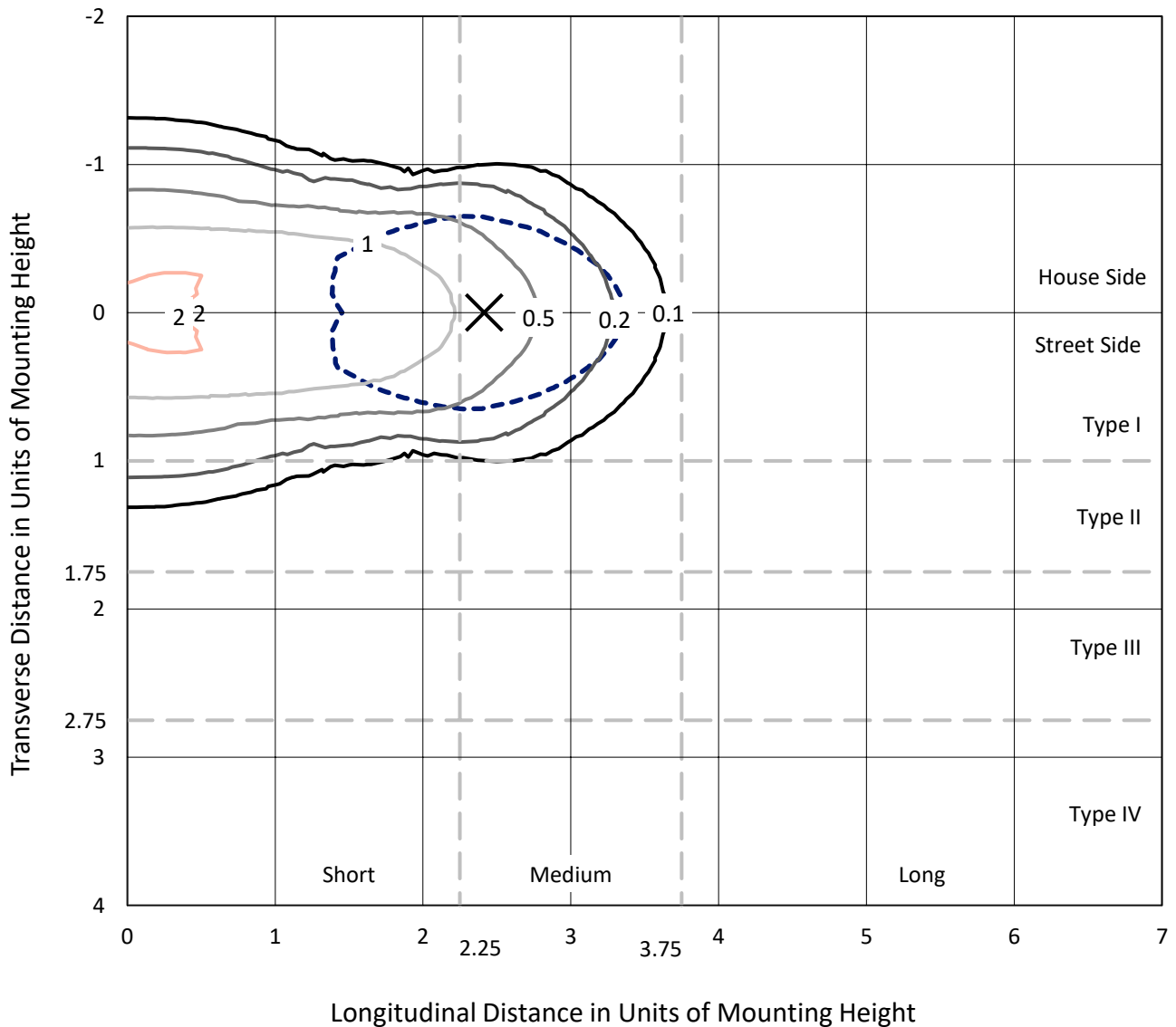
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

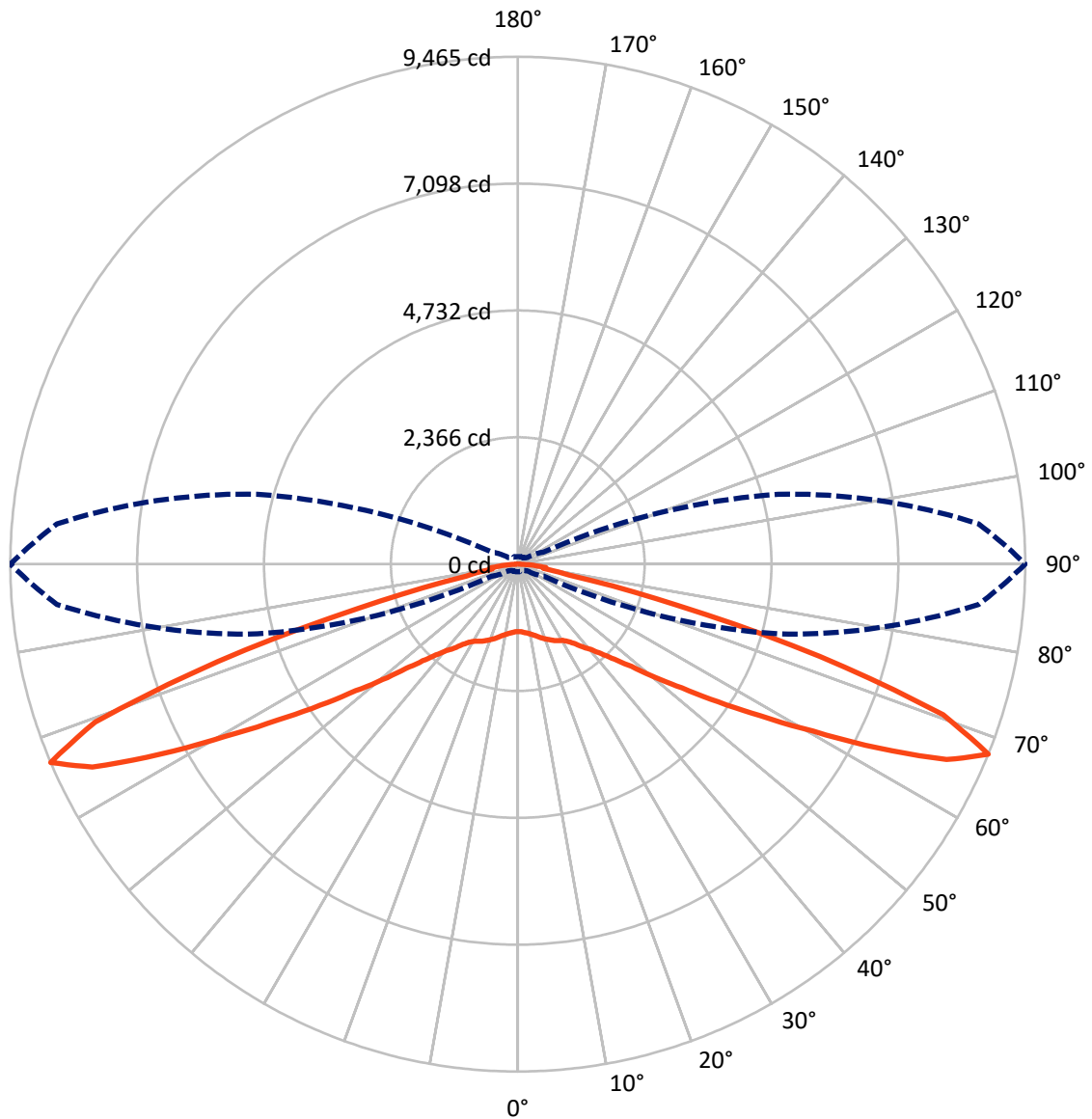
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3558.0	0.0	3558.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3558.0	0.0	3558.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7116.0	0.0	7116.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	1.8
10°-20°	401.8	5.6
20°-30°	672.6	9.5
30°-40°	911.2	12.8
40°-50°	1154.1	16.2
50°-60°	1441.8	20.3
60°-70°	1694.8	23.8
70°-80°	648.3	9.1
80°-90°	65.7	0.9
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°	7116.0	100.0
0°-180°	7116.0	100.0

**Coefficient of Utilization**



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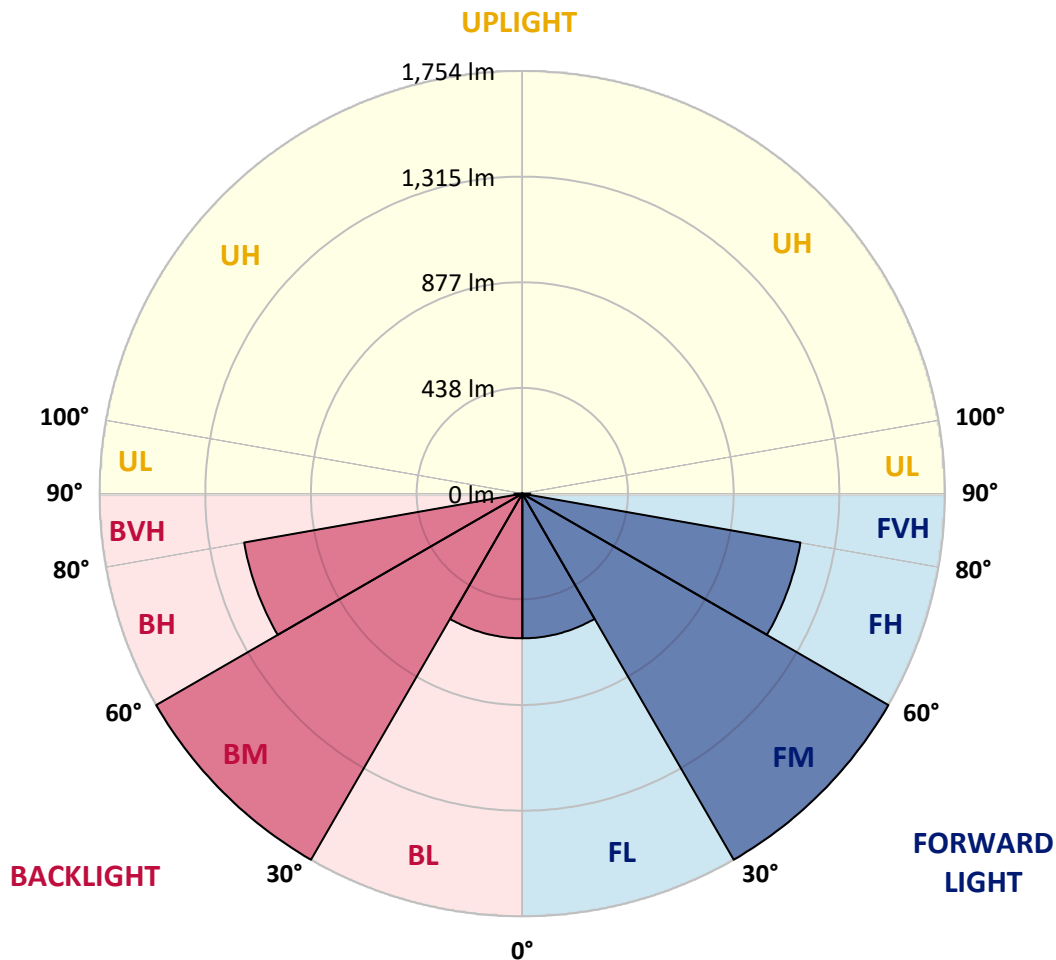
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.0	8.4			
FM (30°-60°)	1753.6	24.6			
FH (60°-80°)	1171.6	16.5			G1/1800
FVH (80°-90°)	32.8	0.5			G1/100
BL (0°-30°)	600.0	8.4	B2/1000		
BM (30°-60°)	1753.6	24.6	B2/2500		
BH (60°-80°)	1171.6	16.5	B3/2500		G3/2500
BVH (80°-90°)	32.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8	1259.8
2.5°	1275.9	1275.1	1275.5	1275.1	1276.3	1275.5	1270.8	1266.8	1263.7	1264.1	1262.9
5°	1303.1	1303.5	1303.9	1301.9	1304.7	1303.1	1295.6	1289.3	1283.0	1280.6	1279.8
7.5°	1325.6	1327.5	1328.7	1330.7	1335.4	1335.4	1331.5	1322.4	1308.6	1300.7	1300.3
10°	1348.0	1349.6	1353.1	1359.4	1367.3	1374.8	1373.2	1361.0	1343.3	1329.9	1326.7
12.5°	1355.9	1357.9	1369.7	1387.8	1405.5	1420.1	1420.1	1410.3	1387.4	1366.9	1361.0
15°	1328.3	1331.9	1353.1	1391.8	1438.3	1470.2	1477.3	1463.5	1439.0	1407.5	1400.4
17.5°	1273.5	1282.2	1313.3	1370.5	1447.7	1513.9	1534.4	1527.7	1496.2	1456.0	1447.7
20°	1214.8	1224.3	1257.4	1333.0	1439.8	1539.5	1599.0	1600.6	1561.6	1503.3	1491.1
22.5°	1150.2	1157.3	1199.9	1288.5	1416.2	1545.4	1654.6	1681.8	1629.0	1550.6	1533.2
25°	1077.7	1085.6	1130.1	1225.9	1371.7	1538.7	1705.4	1765.3	1699.5	1601.0	1578.9
27.5°	1008.4	1011.5	1059.2	1156.5	1312.9	1521.4	1742.8	1842.1	1777.5	1642.8	1614.8
30°	941.8	949.2	991.4	1087.6	1245.6	1487.5	1775.2	1929.6	1861.5	1686.5	1650.6
32.5°	871.2	880.3	926.0	1023.3	1178.2	1436.7	1794.9	2025.4	1978.5	1757.4	1719.2
35°	803.5	809.4	855.5	950.0	1112.4	1377.6	1798.4	2133.3	2129.4	1865.0	1814.2
37.5°	734.1	742.8	789.3	879.9	1042.6	1314.9	1780.7	2248.0	2311.5	2014.3	1959.6
40°	667.5	675.0	720.7	812.1	963.4	1238.5	1738.5	2352.8	2523.8	2168.0	2090.4
42.5°	595.0	597.0	647.0	740.0	885.8	1149.8	1677.8	2446.2	2760.7	2374.1	2277.6
45°	512.6	517.8	564.3	655.7	796.8	1050.5	1595.5	2523.4	3060.9	2659.8	2528.2
47.5°	430.3	434.6	477.2	567.4	699.4	936.6	1468.6	2591.2	3369.1	3022.7	2850.1
50°	349.9	352.3	386.9	466.9	589.9	816.8	1311.4	2612.9	3717.4	3536.5	3316.3
52.5°	276.6	280.2	306.6	369.2	472.9	675.4	1141.5	2559.3	4124.0	4145.7	3835.2
55°	224.2	225.4	245.1	291.2	369.6	527.2	936.6	2410.0	4561.4	4926.3	4530.3
57.5°	193.1	193.9	204.9	230.5	284.5	397.6	726.6	2127.4	4954.3	5840.9	5331.8
60°	175.3	175.7	182.0	197.0	225.4	305.0	520.5	1728.7	5342.0	6858.7	6327.9
62.5°	164.3	164.3	168.7	176.9	190.7	234.1	377.1	1247.1	5607.6	7891.5	7555.8
65°	153.7	153.7	156.8	162.7	170.2	191.5	278.6	813.3	5600.9	8643.7	8790.7
67.5°	141.5	141.5	143.8	149.7	154.1	164.7	215.1	532.7	5031.1	8627.2	9464.5
70°	126.9	126.9	130.0	135.2	138.7	145.4	169.8	364.5	3696.1	7366.2	8417.1
72.5°	112.3	112.7	114.7	119.8	122.5	126.5	141.1	255.3	2267.3	5015.8	5885.4
75°	96.1	96.9	98.9	104.0	106.4	108.0	119.0	182.0	1147.1	2704.3	3079.0
77.5°	77.6	79.2	80.4	85.9	87.5	89.8	98.1	131.6	503.6	971.7	980.4
80°	56.7	58.7	62.3	67.4	68.6	70.1	74.9	93.4	228.2	443.7	481.9
82.5°	41.8	44.5	40.2	46.9	46.9	44.9	52.8	62.7	104.8	439.4	525.7
85°	22.9	23.2	20.9	24.0	25.6	25.2	28.0	30.7	50.8	293.2	302.2
87.5°	5.5	5.9	6.3	7.5	9.1	9.1	9.9	8.7	16.5	95.0	54.4
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)