

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: P451384

Luminaire Tested: **GALN-SA2B-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10752 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

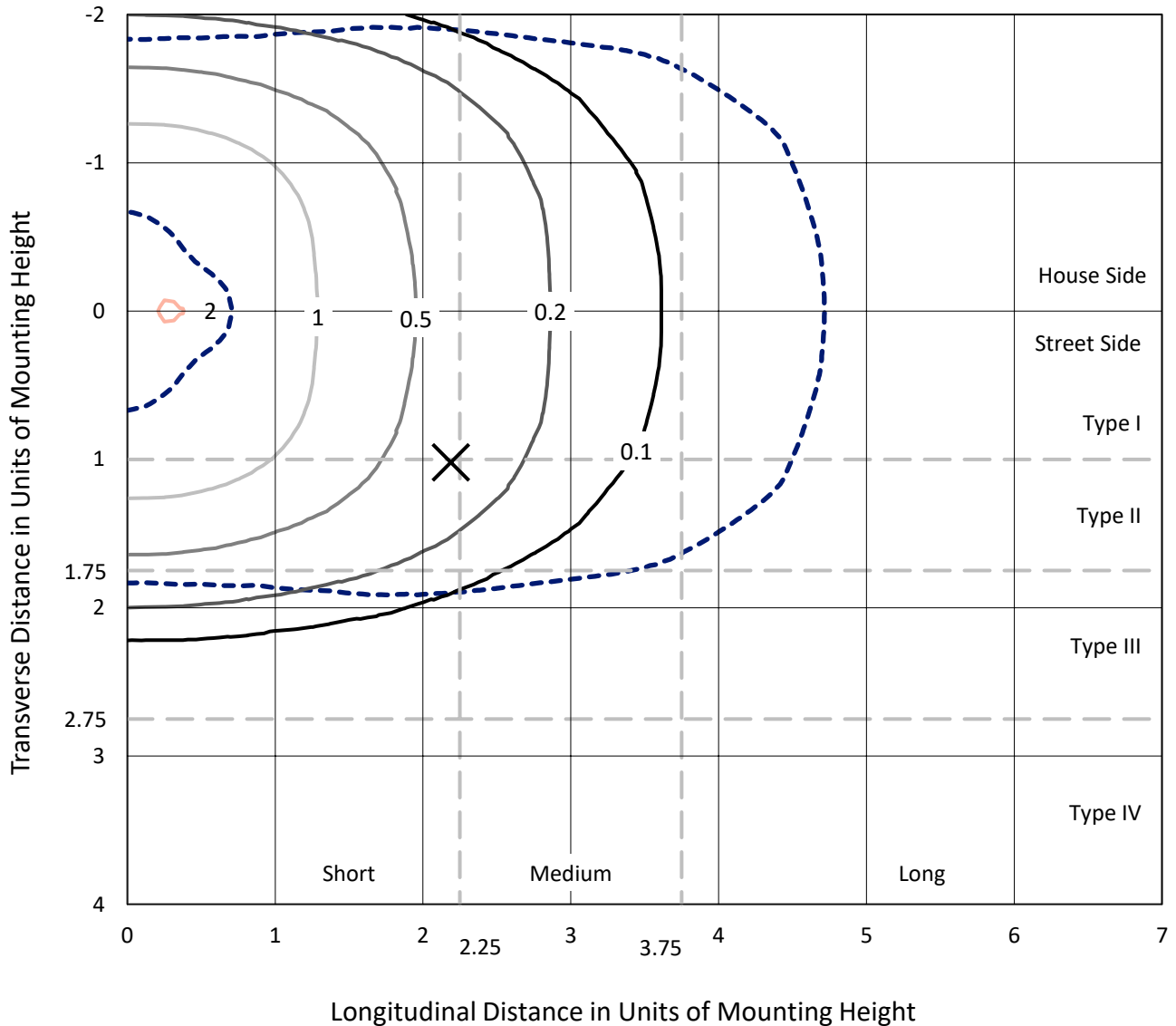
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

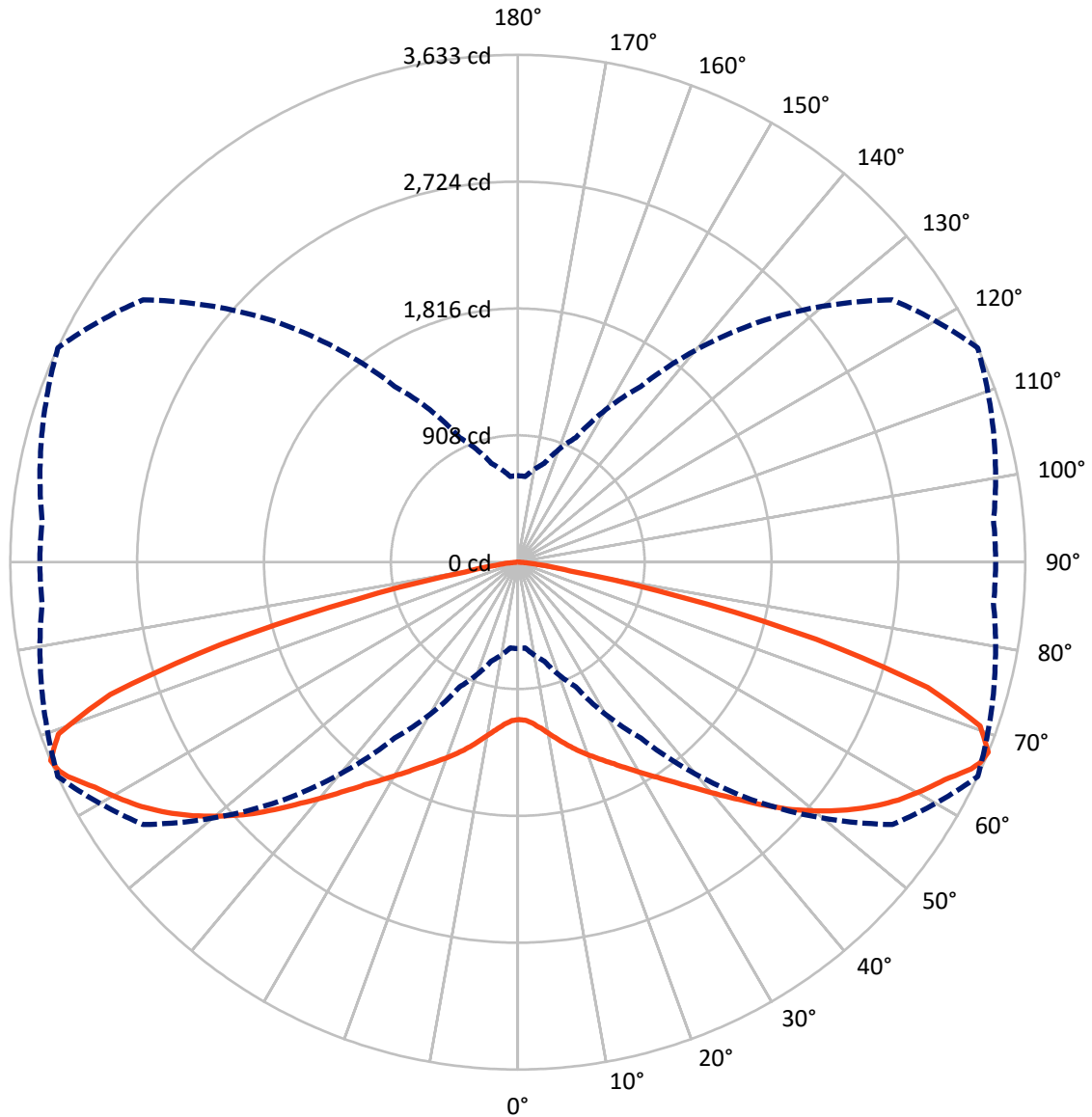
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5376.0	0.0	5376.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5376.0	0.0	5376.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10752.0	0.0	10752.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.1	1.0
10°-20°	371.7	3.5
20°-30°	727.2	6.8
30°-40°	1236.8	11.5
40°-50°	1957.5	18.2
50°-60°	2595.6	24.1
60°-70°	2448.4	22.8
70°-80°	1210.4	11.3
80°-90°	93.3	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°	10752.0	100.0
0°-180°	10752.0	100.0

**Coefficient of Utilization**



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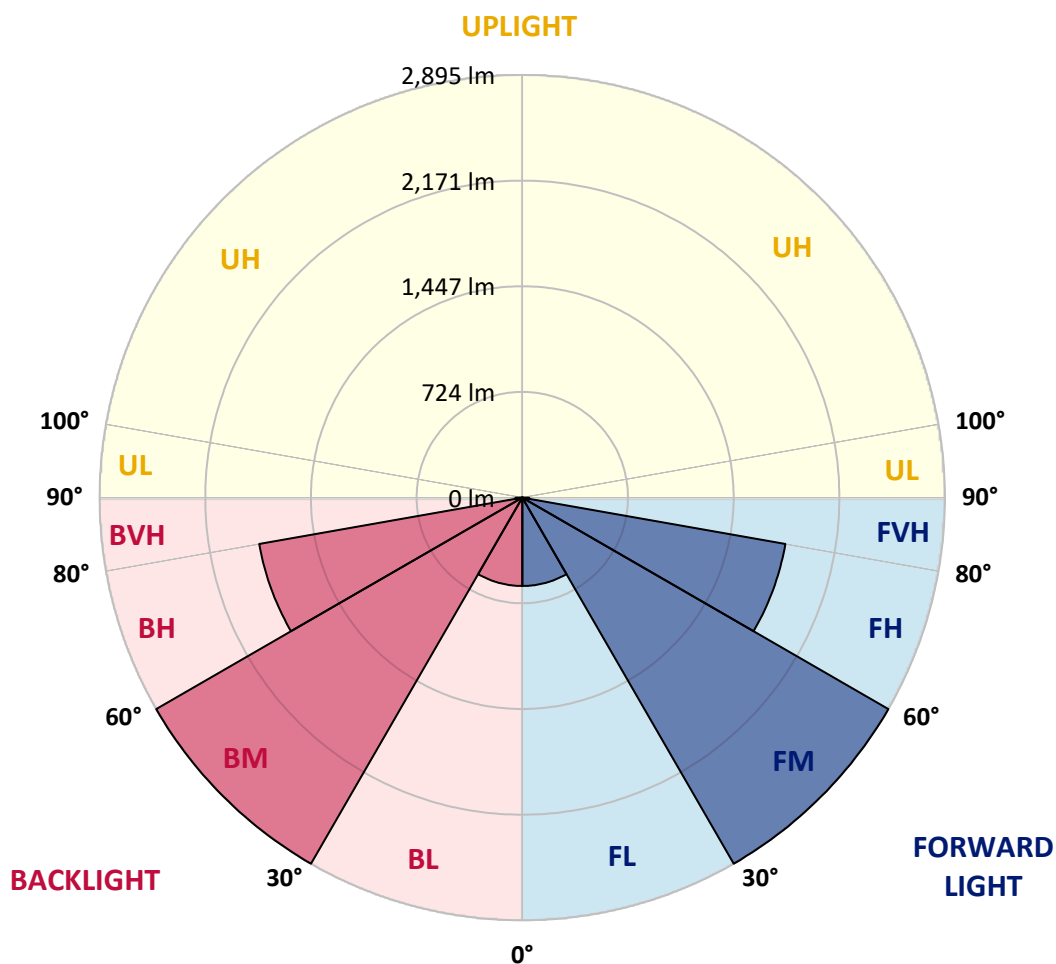
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	605.0	5.6			
FM	(30°-60°)	2895.0	26.9			
FH	(60°-80°)	1829.4	17.0			G2/5000
FVH	(80°-90°)	46.6	0.4			G1/100
BL	(0°-30°)	605.0	5.6	B2/1000		
BM	(30°-60°)	2895.0	26.9	B3/5000		
BH	(60°-80°)	1829.4	17.0	B3/2500		G3/2500
BVH	(80°-90°)	46.6	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2	1126.2
2.5°	1120.4	1121.6	1122.7	1124.4	1126.8	1130.2	1132.5	1134.2	1138.9	1139.4	1138.9
5°	1116.4	1117.5	1120.4	1125.6	1133.1	1143.5	1151.5	1161.3	1168.8	1174.0	1172.8
7.5°	1115.8	1118.1	1122.7	1133.7	1148.1	1165.9	1184.4	1201.1	1215.5	1227.0	1225.3
10°	1125.0	1127.9	1135.4	1151.5	1174.0	1199.9	1225.8	1250.6	1271.3	1286.3	1291.5
12.5°	1140.6	1142.9	1156.7	1180.9	1213.2	1245.4	1274.8	1305.3	1334.1	1359.5	1359.5
15°	1167.7	1171.7	1189.0	1224.1	1263.9	1301.3	1331.3	1363.5	1394.6	1423.4	1432.1
17.5°	1205.1	1210.9	1236.8	1281.7	1332.4	1367.0	1395.2	1421.7	1448.8	1476.4	1480.4
20°	1256.4	1262.1	1296.7	1350.8	1410.7	1452.2	1471.2	1477.6	1490.8	1517.3	1520.8
22.5°	1326.1	1331.8	1370.4	1431.5	1498.3	1543.2	1551.3	1536.3	1532.9	1553.6	1555.9
25°	1405.0	1410.2	1454.5	1520.2	1589.3	1638.3	1636.0	1599.1	1578.4	1591.0	1594.5
27.5°	1493.7	1501.2	1546.1	1614.1	1689.0	1732.2	1725.3	1671.7	1627.3	1625.0	1626.2
30°	1607.2	1615.2	1657.9	1723.0	1796.7	1836.4	1822.0	1750.0	1681.5	1658.4	1658.4
32.5°	1727.0	1747.2	1790.4	1858.3	1915.9	1944.7	1922.9	1836.4	1745.4	1713.2	1711.4
35°	1883.1	1894.1	1936.7	2002.9	2046.1	2068.6	2026.5	1933.8	1829.0	1790.9	1785.8
37.5°	2035.8	2045.0	2094.5	2157.9	2210.3	2209.2	2152.1	2049.6	1932.6	1890.0	1886.6
40°	2191.9	2201.7	2258.1	2316.3	2368.7	2364.1	2295.0	2180.3	2055.9	2008.1	2017.3
42.5°	2327.2	2338.2	2402.1	2485.1	2532.3	2531.2	2451.1	2322.1	2192.4	2149.8	2157.9
45°	2450.5	2460.3	2534.6	2629.7	2698.8	2707.4	2619.9	2483.4	2350.3	2295.6	2297.9
47.5°	2537.5	2555.9	2633.7	2742.6	2836.5	2867.0	2781.2	2647.5	2494.3	2437.3	2440.7
50°	2603.7	2615.3	2699.9	2823.8	2942.5	3005.8	2936.7	2799.6	2638.3	2577.8	2585.9
52.5°	2611.8	2625.6	2717.8	2860.7	3012.7	3108.9	3075.0	2948.2	2785.2	2723.0	2740.3
55°	2546.1	2554.2	2664.2	2837.6	3040.4	3185.6	3194.2	3086.5	2925.2	2877.9	2889.5
57.5°	2358.9	2379.7	2519.1	2729.9	3002.4	3226.5	3283.5	3212.1	3066.9	3020.2	3038.7
60°	2051.9	2072.6	2212.6	2479.9	2858.9	3207.4	3357.2	3323.2	3195.3	3157.9	3167.7
62.5°	1607.8	1606.0	1779.4	2107.2	2573.8	3114.1	3411.9	3430.4	3322.1	3274.8	3289.8
65°	1042.1	1047.3	1214.9	1568.0	2143.5	2876.8	3424.0	3566.9	3446.5	3375.1	3386.0
66°	838.2	853.7	996.0	1321.5	1924.0	2721.3	3387.7	3607.2	3484.5	3398.1	3403.3
67.5°	618.7	615.8	732.7	983.9	1536.3	2425.7	3274.3	3632.6	3527.7	3418.9	3421.2
70°	353.1	352.5	394.0	540.3	903.2	1708.0	2759.9	3511.0	3615.3	3493.7	3487.4
72.5°	258.1	256.3	262.1	298.4	440.7	862.3	1903.8	3068.6	3570.4	3481.6	3463.8
75°	216.6	215.4	214.3	218.9	247.1	390.6	1010.4	2207.4	3098.0	3267.9	3249.5
77.5°	176.8	176.8	177.4	176.3	177.4	205.6	418.8	1183.2	1886.6	2106.0	2157.3
80°	138.3	137.7	147.5	143.4	134.2	131.9	185.5	380.8	626.2	622.7	513.8
82.5°	102.0	95.0	112.3	109.4	99.1	84.1	108.3	162.4	209.1	135.9	100.8
85°	64.5	63.9	79.5	72.6	60.5	39.7	51.8	69.7	86.4	52.4	42.6
87.5°	11.5	10.9	25.3	18.4	18.4	11.5	14.4	19.0	28.2	19.6	14.4
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)