

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: P451395

Luminaire Tested: **GALN-SA2B-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451395  
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-SA2B-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10403 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

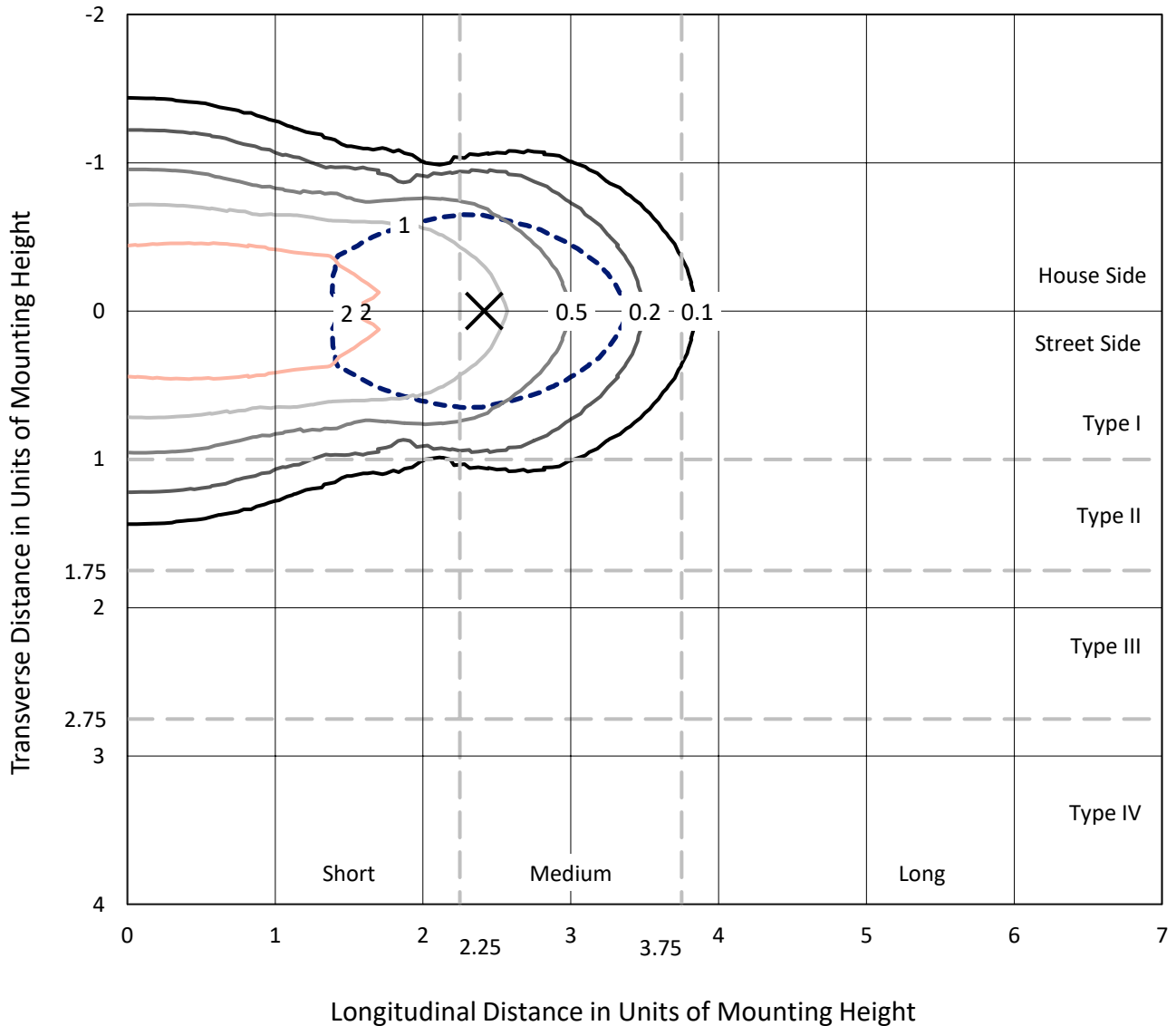
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

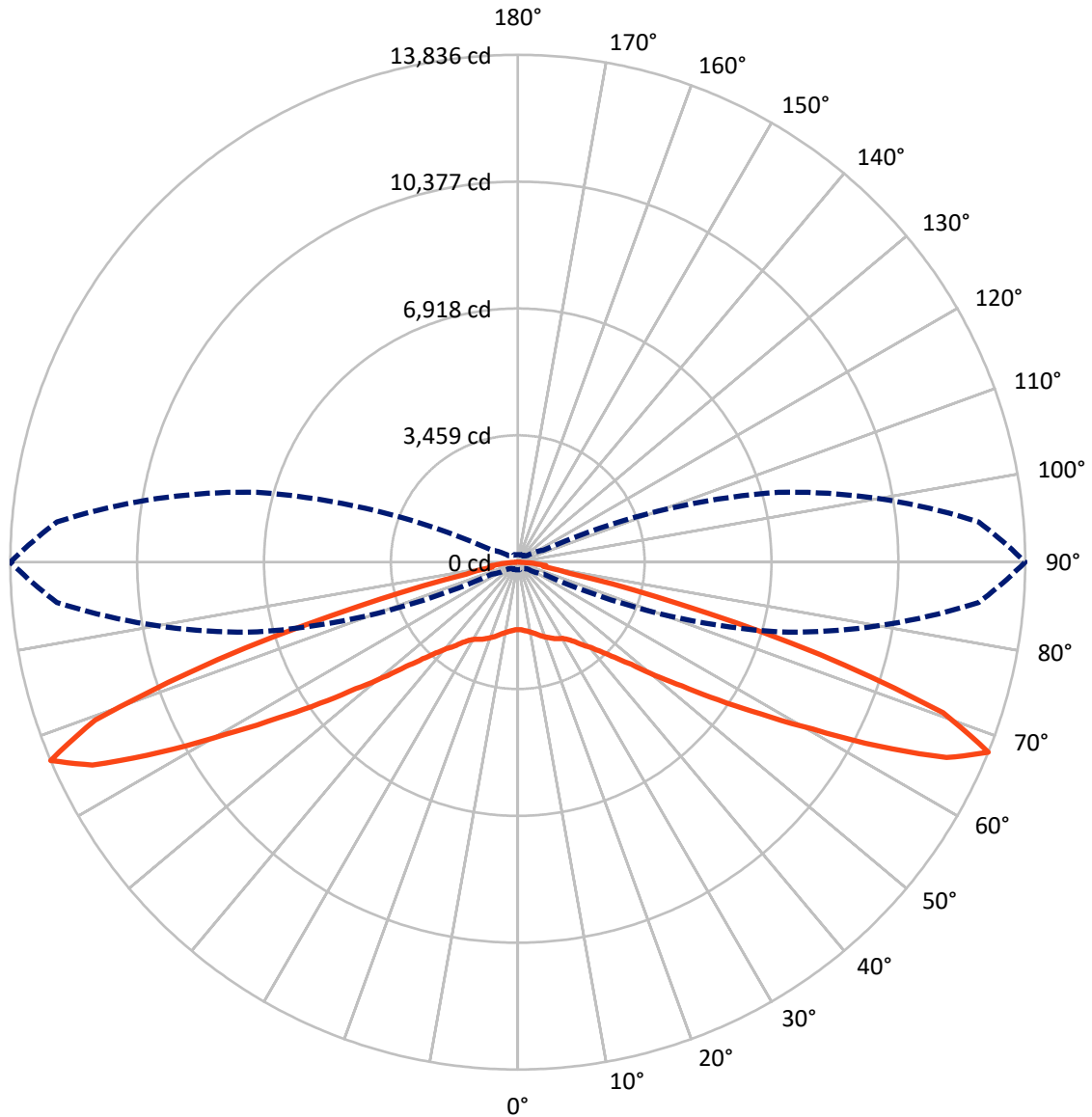
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	5201.5	0.0	5201.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5201.5	0.0	5201.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10403.0	0.0	10403.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.6	1.8
10°-20°	587.5	5.6
20°-30°	983.3	9.5
30°-40°	1332.1	12.8
40°-50°	1687.3	16.2
50°-60°	2107.8	20.3
60°-70°	2477.7	23.8
70°-80°	947.8	9.1
80°-90°	96.0	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°	10403.0	100.0
0°-180°	10403.0	100.0

**Coefficient of Utilization**



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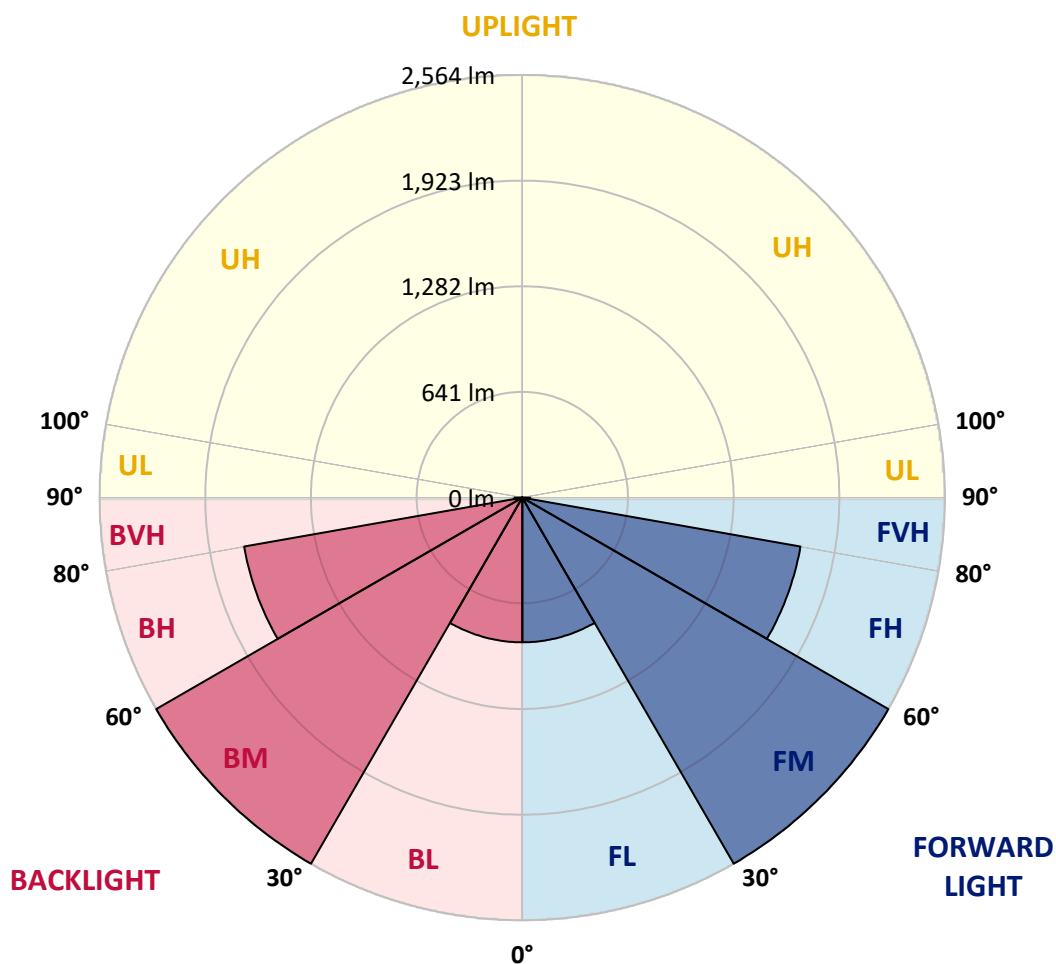
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.2	8.4			
FM	(30°-60°)	2563.6	24.6			
FH	(60°-80°)	1712.7	16.5			G1/1800
FVH	(80°-90°)	48.0	0.5			G1/100
BL	(0°-30°)	877.2	8.4	B2/1000		
BM	(30°-60°)	2563.6	24.6	B3/5000		
BH	(60°-80°)	1712.7	16.5	B3/2500		G3/2500
BVH	(80°-90°)	48.0	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°	1841.7	1841.7	1841.7	1841.7	1841.7	1841.7	1841.7	1841.7	1841.7	1841.7	1841.7
2.5°	1865.3	1864.1	1864.7	1864.1	1865.8	1864.7	1857.8	1852.0	1847.4	1848.0	1846.3
5°	1905.0	1905.6	1906.2	1903.3	1907.3	1905.0	1894.1	1884.9	1875.6	1872.2	1871.0
7.5°	1937.9	1940.7	1942.5	1945.3	1952.3	1952.3	1946.5	1933.2	1913.1	1901.6	1901.0
10°	1970.7	1973.0	1978.2	1987.4	1998.9	2009.9	2007.6	1989.7	1963.8	1944.2	1939.6
12.5°	1982.2	1985.1	2002.4	2028.9	2054.8	2076.1	2076.1	2061.7	2028.3	1998.3	1989.7
15°	1941.9	1947.1	1978.2	2034.6	2102.6	2149.3	2159.6	2139.5	2103.8	2057.7	2047.3
17.5°	1861.8	1874.5	1920.0	2003.5	2116.4	2213.2	2243.2	2233.4	2187.3	2128.5	2116.4
20°	1776.0	1789.8	1838.2	1948.8	2104.9	2250.7	2337.6	2339.9	2282.9	2197.7	2179.8
22.5°	1681.5	1691.9	1754.1	1883.7	2070.3	2259.3	2418.9	2458.6	2381.4	2266.8	2241.4
25°	1575.5	1587.0	1652.1	1792.1	2005.3	2249.5	2493.2	2580.7	2484.5	2340.5	2308.3
27.5°	1474.1	1478.7	1548.4	1690.7	1919.4	2224.2	2547.9	2693.1	2598.6	2401.6	2360.7
30°	1376.8	1387.7	1449.4	1589.9	1820.9	2174.6	2595.1	2821.0	2721.3	2465.5	2413.1
32.5°	1273.7	1286.9	1353.7	1496.0	1722.4	2100.3	2623.9	2960.9	2892.4	2569.2	2513.3
35°	1174.6	1183.2	1250.6	1388.9	1626.2	2013.9	2629.1	3118.8	3113.0	2726.5	2652.2
37.5°	1073.2	1085.9	1153.8	1286.3	1524.2	1922.3	2603.2	3286.4	3379.2	2944.8	2864.7
40°	975.8	986.8	1053.6	1187.3	1408.5	1810.5	2541.6	3439.6	3689.6	3169.5	3056.0
42.5°	869.8	872.7	945.9	1081.8	1295.0	1680.9	2452.9	3576.2	4035.9	3470.7	3329.6
45°	749.5	756.9	824.9	958.6	1164.8	1535.8	2332.5	3689.1	4474.8	3888.4	3696.0
47.5°	629.1	635.4	697.6	829.5	1022.5	1369.3	2147.0	3788.2	4925.3	4418.9	4166.6
50°	511.5	515.0	565.7	682.6	862.4	1194.2	1917.1	3819.8	5434.5	5170.1	4848.1
52.5°	404.4	409.6	448.2	539.8	691.3	987.4	1668.8	3741.5	6029.0	6060.7	5606.8
55°	327.8	329.5	358.3	425.7	540.3	770.8	1369.3	3523.2	6668.4	7201.9	6622.9
57.5°	282.3	283.4	299.5	337.0	415.9	581.2	1062.2	3110.1	7242.8	8538.9	7794.6
60°	256.3	256.9	266.1	288.0	329.5	445.9	761.0	2527.2	7809.6	10026.9	9250.9
62.5°	240.2	240.2	246.6	258.6	278.8	342.2	551.3	1823.2	8197.9	11536.7	11045.9
65°	224.7	224.7	229.3	237.9	248.9	280.0	407.3	1189.0	8188.1	12636.4	12851.3
67.5°	206.8	206.8	210.3	218.9	225.2	240.8	314.5	778.8	7355.1	12612.2	13836.3
70°	185.5	185.5	190.1	197.6	202.8	212.6	248.3	532.9	5403.4	10768.8	12305.2
72.5°	164.2	164.8	167.6	175.1	179.2	184.9	206.2	373.3	3314.6	7332.6	8604.0
75°	140.6	141.7	144.6	152.1	155.5	157.8	174.0	266.1	1676.9	3953.5	4501.3
77.5°	113.5	115.8	117.5	125.6	127.9	131.3	143.4	192.4	736.2	1420.6	1433.2
80°	83.0	85.8	91.0	98.5	100.2	102.5	109.5	136.5	333.5	648.6	704.5
82.5°	61.1	65.1	58.8	68.6	68.6	65.7	77.2	91.6	153.2	642.3	768.5
85°	33.4	34.0	30.5	35.1	37.4	36.9	40.9	44.9	74.3	428.6	441.8
87.5°	8.1	8.6	9.2	10.9	13.2	13.2	14.4	12.7	24.2	138.8	79.5
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)