

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: P452080

Luminaire Tested: **GALN-SA3A-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452080  
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-SA3A-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12827 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

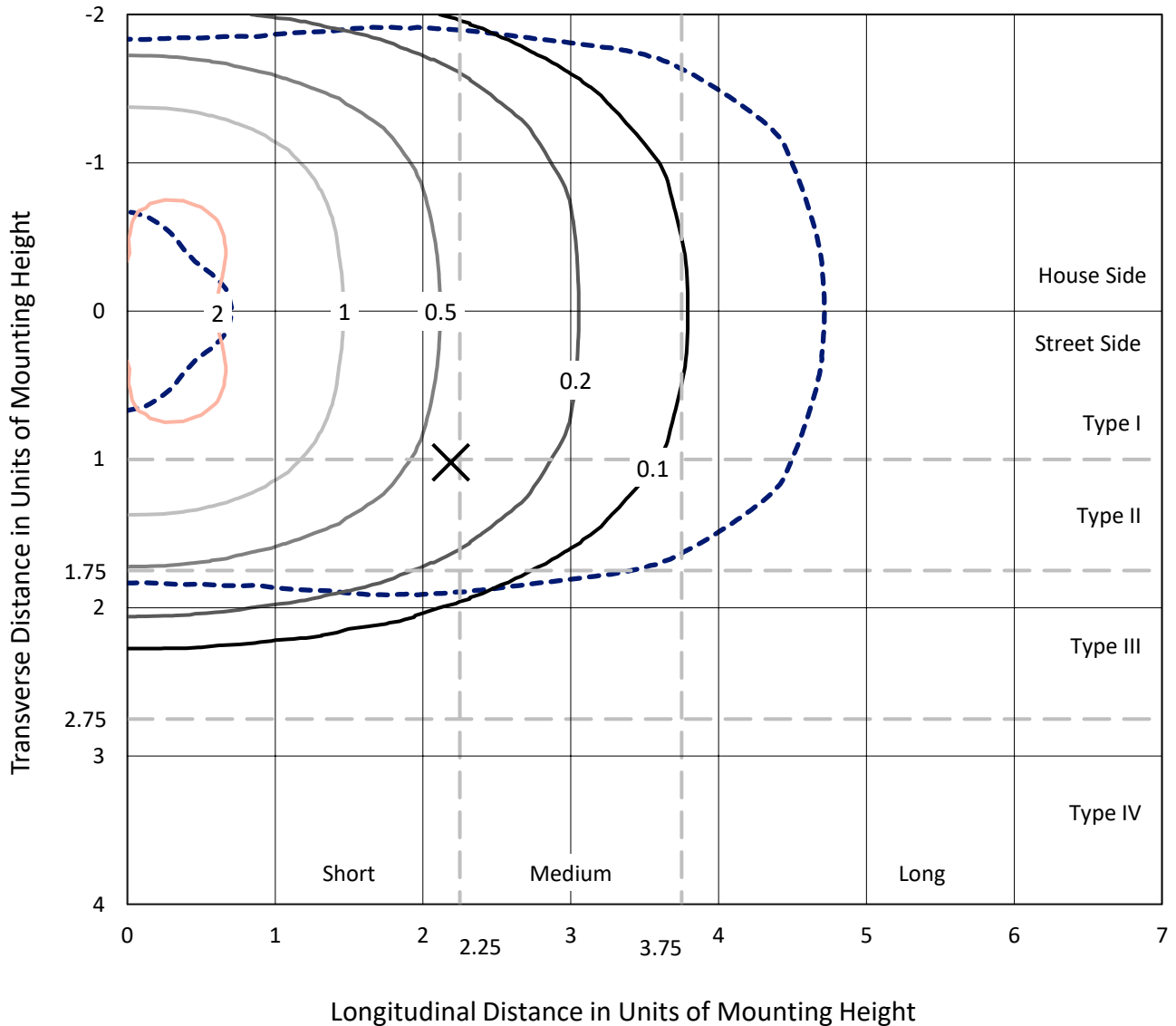
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

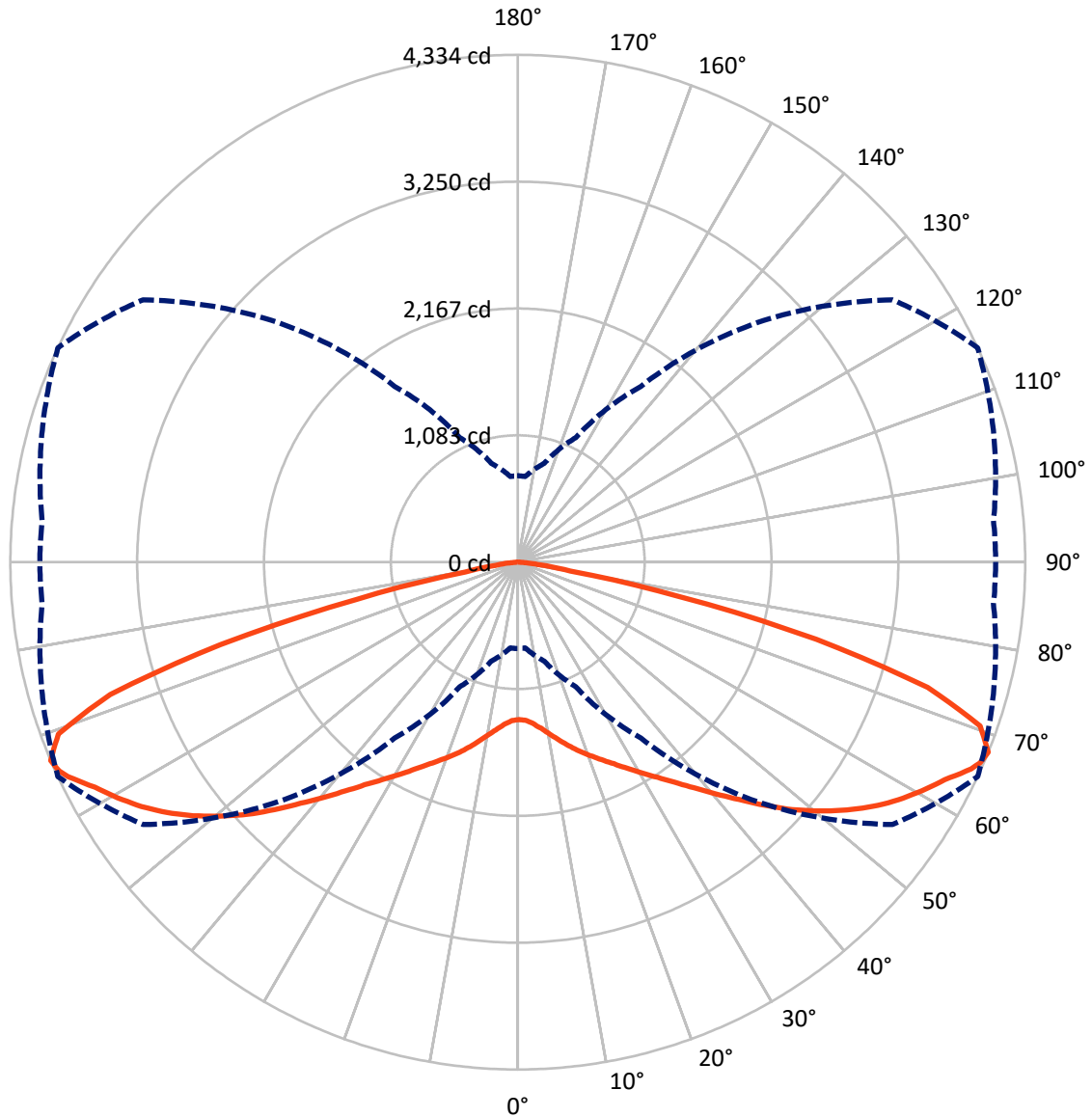
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	6413.5	0.0	6413.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6413.5	0.0	6413.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12827.0	0.0	12827.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	1.0
10°-20°	443.5	3.5
20°-30°	867.5	6.8
30°-40°	1475.5	11.5
40°-50°	2335.3	18.2
50°-60°	3096.5	24.1
60°-70°	2921.0	22.8
70°-80°	1444.0	11.3
80°-90°	111.3	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°	12827.0	100.0
0°-180°	12827.0	100.0



REPORT NUMBER: P452080

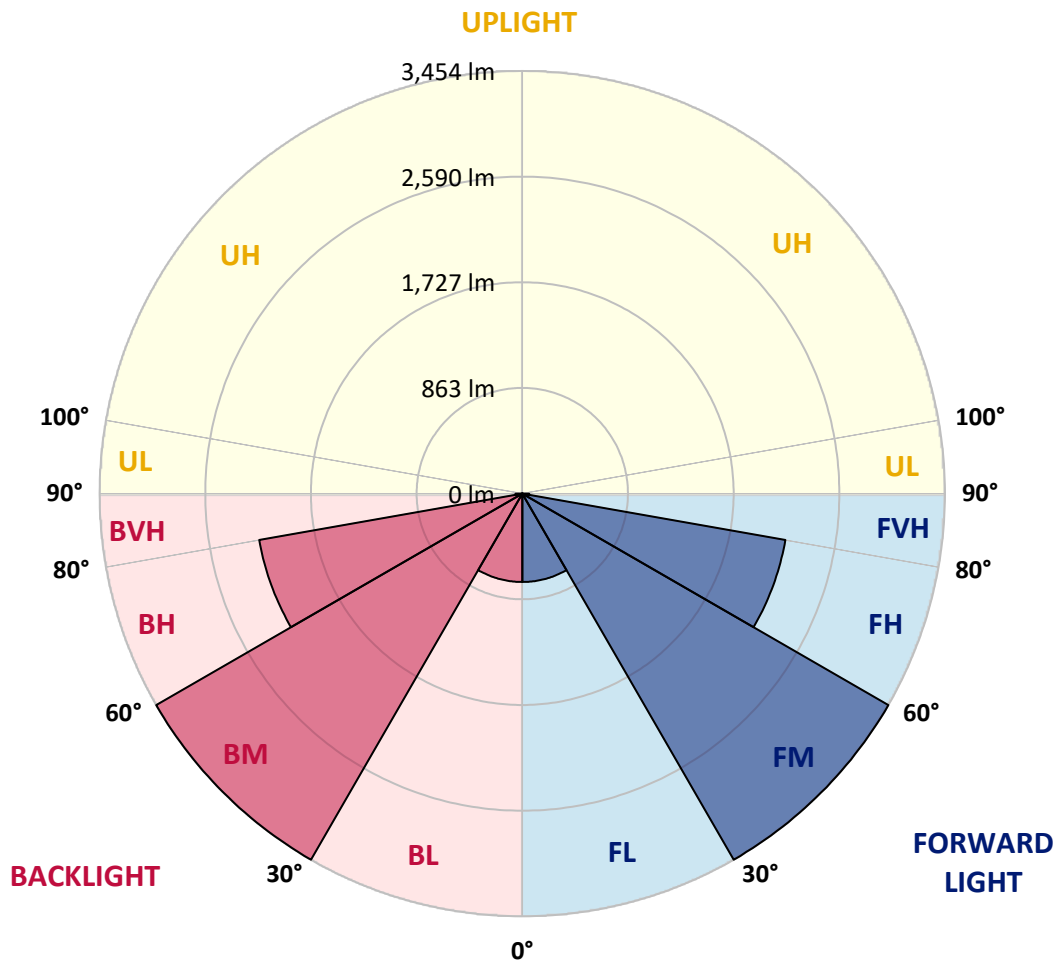
CATALOG NUMBER: GALN-SA3A-730-U-RW

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.7	5.6			
FM	(30°-60°)	3453.6	26.9			
FH	(60°-80°)	2182.5	17.0			G2/5000
FVH	(80°-90°)	55.6	0.4			G1/100
BL	(0°-30°)	721.7	5.6	B2/1000		
BM	(30°-60°)	3453.6	26.9	B3/5000		
BH	(60°-80°)	2182.5	17.0	B3/2500		G3/2500
BVH	(80°-90°)	55.6	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°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5
2.5°	1336.6	1338.0	1339.4	1341.5	1344.2	1348.3	1351.1	1353.1	1358.6	1359.3	1358.6
5°	1331.8	1333.2	1336.6	1342.8	1351.8	1364.1	1373.8	1385.4	1394.4	1400.6	1399.2
7.5°	1331.1	1333.9	1339.4	1352.4	1369.6	1390.9	1412.9	1432.9	1450.0	1463.8	1461.7
10°	1342.1	1345.6	1354.5	1373.8	1400.6	1431.5	1462.4	1492.0	1516.7	1534.6	1540.7
12.5°	1360.7	1363.4	1379.9	1408.8	1447.3	1485.8	1520.8	1557.2	1591.6	1621.8	1621.8
15°	1393.0	1397.8	1418.4	1460.3	1507.8	1552.4	1588.2	1626.6	1663.8	1698.1	1708.4
17.5°	1437.7	1444.5	1475.5	1529.1	1589.5	1630.8	1664.4	1696.1	1728.4	1761.3	1766.2
20°	1498.8	1505.7	1546.9	1611.5	1683.0	1732.5	1755.2	1762.7	1778.5	1810.1	1814.3
22.5°	1582.0	1588.9	1634.9	1707.7	1787.5	1841.1	1850.7	1832.8	1828.7	1853.4	1856.2
25°	1676.1	1682.3	1735.2	1813.6	1896.0	1954.5	1951.7	1907.7	1883.0	1898.1	1902.2
27.5°	1782.0	1790.9	1844.5	1925.6	2014.9	2066.5	2058.2	1994.3	1941.4	1938.6	1940.0
30°	1917.3	1927.0	1977.8	2055.5	2143.4	2190.9	2173.7	2087.8	2006.0	1978.5	1978.5
32.5°	2060.3	2084.3	2135.9	2217.0	2285.7	2320.1	2293.9	2190.9	2082.3	2043.8	2041.7
35°	2246.5	2259.6	2310.4	2389.5	2441.0	2467.8	2417.6	2307.0	2181.9	2136.6	2130.4
37.5°	2428.6	2439.6	2498.7	2574.3	2636.9	2635.5	2567.5	2445.1	2305.6	2254.8	2250.6
40°	2614.9	2626.6	2693.9	2763.3	2825.8	2820.4	2737.9	2601.1	2452.7	2395.6	2406.6
42.5°	2776.4	2789.4	2865.7	2964.7	3021.0	3019.6	2924.1	2770.2	2615.6	2564.7	2574.3
45°	2923.4	2935.1	3023.8	3137.2	3219.6	3229.9	3125.5	2962.6	2803.9	2738.6	2741.3
47.5°	3027.2	3049.2	3142.0	3271.9	3383.9	3420.3	3317.9	3158.5	2975.7	2907.6	2911.8
50°	3106.2	3120.0	3221.0	3368.8	3510.3	3585.9	3503.4	3339.9	3147.5	3075.3	3084.9
52.5°	3115.9	3132.3	3242.3	3412.7	3594.2	3708.9	3668.4	3517.2	3322.7	3248.5	3269.1
55°	3037.5	3047.1	3178.4	3385.2	3627.1	3800.3	3810.6	3682.1	3489.7	3433.4	3447.1
57.5°	2814.2	2838.9	3005.2	3256.7	3581.8	3849.1	3917.2	3831.9	3658.8	3603.1	3625.1
60°	2447.9	2472.6	2639.6	2958.5	3410.7	3826.4	4005.1	3964.6	3812.0	3767.3	3779.0
62.5°	1918.0	1916.0	2122.8	2513.9	3070.5	3715.1	4070.4	4092.4	3963.2	3906.8	3924.7
65°	1243.2	1249.4	1449.3	1870.6	2557.1	3432.0	4084.8	4255.3	4111.6	4026.4	4039.5
66°	999.9	1018.5	1188.2	1576.5	2295.3	3246.4	4041.5	4303.4	4157.0	4053.9	4060.1
67.5°	738.1	734.6	874.1	1173.8	1832.8	2893.9	3906.2	4333.6	4208.5	4078.7	4081.4
70°	421.3	420.6	470.1	644.6	1077.6	2037.6	3292.5	4188.6	4313.0	4168.0	4160.4
72.5°	307.9	305.8	312.7	356.0	525.7	1028.8	2271.3	3660.8	4259.4	4153.6	4132.3
75°	258.4	257.0	255.6	261.1	294.8	465.9	1205.4	2633.4	3695.9	3898.6	3876.6
77.5°	211.0	211.0	211.7	210.3	211.7	245.3	499.6	1411.5	2250.6	2512.5	2573.6
80°	164.9	164.2	175.9	171.1	160.1	157.4	221.3	454.3	747.0	742.9	613.0
82.5°	121.6	113.4	134.0	130.6	118.2	100.3	129.2	193.8	249.5	162.2	120.3
85°	77.0	76.3	94.8	86.6	72.2	47.4	61.8	83.2	103.1	62.5	50.9
87.5°	13.7	13.1	30.2	22.0	22.0	13.7	17.2	22.7	33.7	23.4	17.2
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)