

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: P451380

Luminaire Tested: **GALN-SA2B-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10876 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

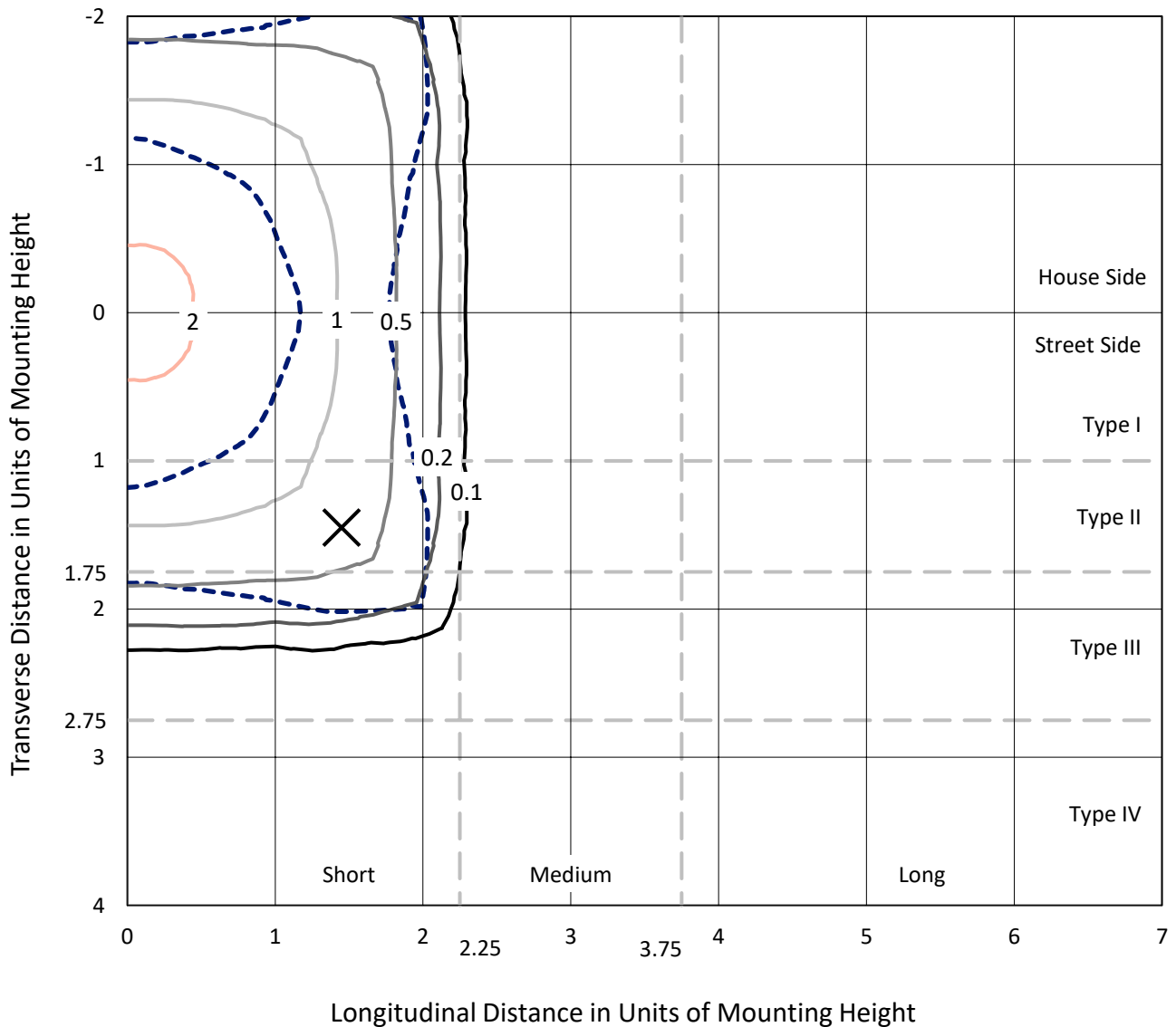
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

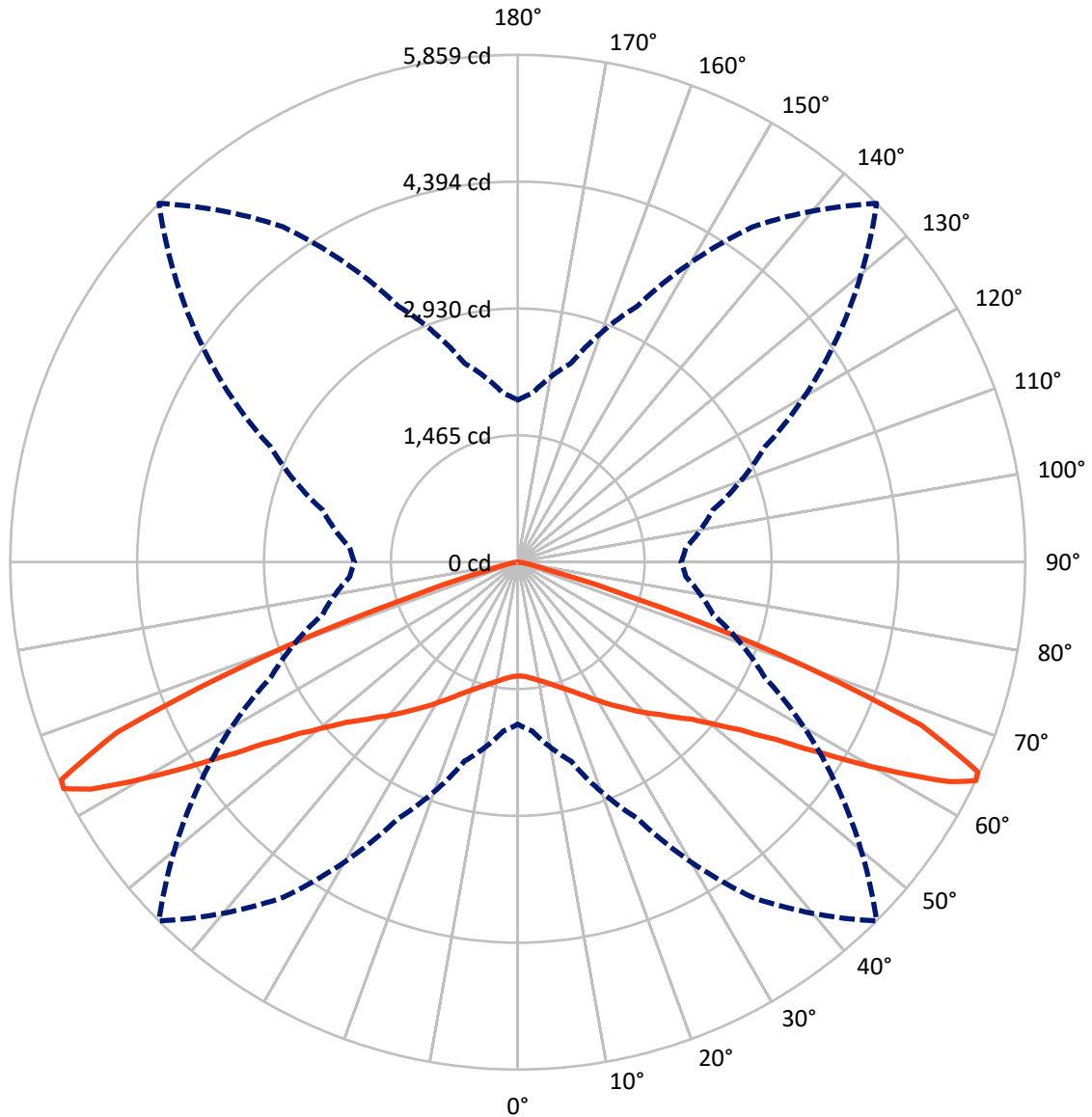
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5438.0	0.0	5438.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5438.0	0.0	5438.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10876.0	0.0	10876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.2
10°-20°	416.6	3.8
20°-30°	787.2	7.2
30°-40°	1303.7	12.0
40°-50°	2035.3	18.7
50°-60°	3146.5	28.9
60°-70°	2713.2	24.9
70°-80°	307.5	2.8
80°-90°	36.8	0.3
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°	10876.0	100.0
0°-180°	10876.0	100.0



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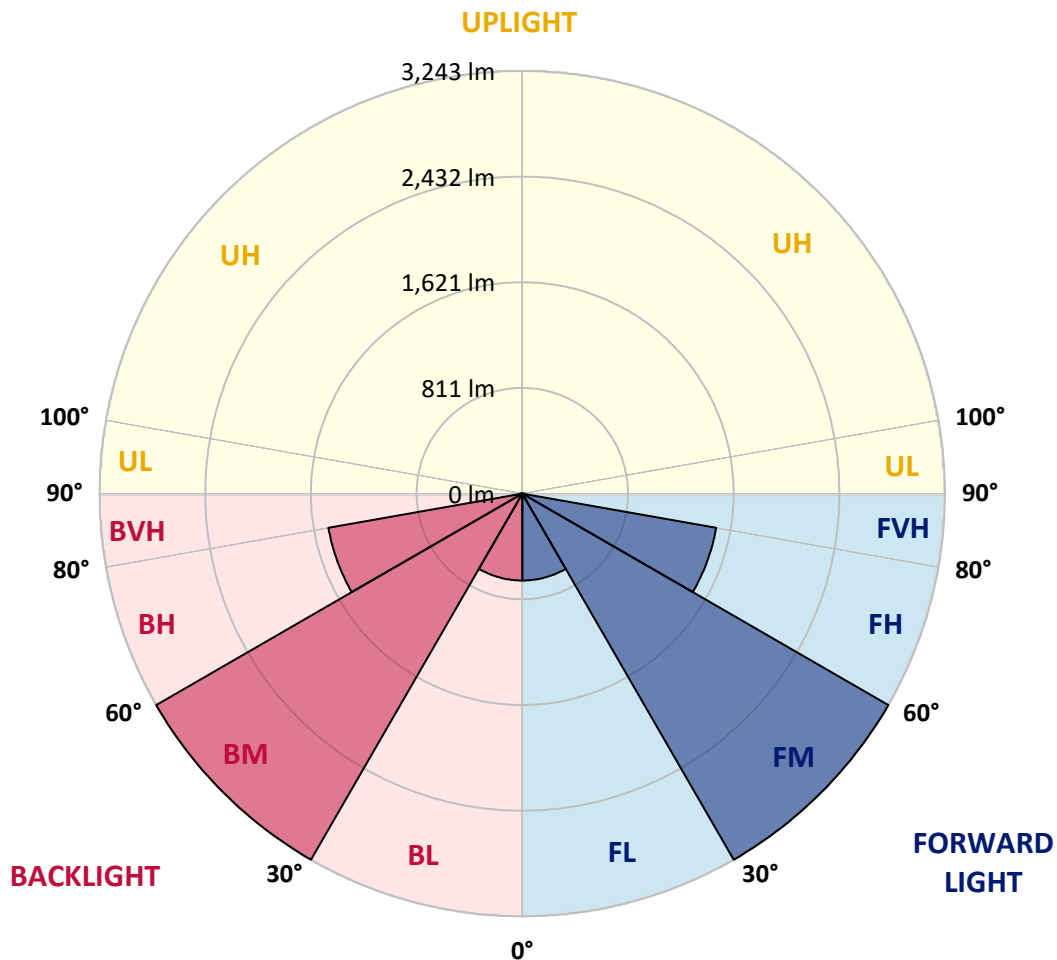
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.5	6.1			
FM (30°-60°)	3242.8	29.8			
FH (60°-80°)	1510.3	13.9			G1/1800
FVH (80°-90°)	18.4	0.2			G1/100
BL (0°-30°)	666.5	6.1	B2/1000		
BM (30°-60°)	3242.8	29.8	B3/5000		
BH (60°-80°)	1510.3	13.9	B3/2500		G1/1800
BVH (80°-90°)	18.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5
2.5°	1319.7	1322.6	1320.3	1319.7	1319.2	1319.2	1319.2	1319.7	1322.0	1323.8	1322.6
5°	1336.4	1338.7	1337.6	1337.0	1336.4	1337.0	1335.9	1335.3	1337.0	1337.0	1336.4
7.5°	1357.2	1360.1	1358.9	1360.1	1360.6	1361.2	1358.3	1356.0	1355.4	1357.2	1356.0
10°	1385.4	1387.7	1388.3	1388.9	1390.0	1389.4	1386.0	1381.9	1381.4	1380.8	1380.2
12.5°	1417.1	1418.8	1419.4	1421.7	1423.4	1424.0	1420.0	1416.5	1410.7	1411.9	1409.6
15°	1452.8	1456.3	1455.7	1459.1	1463.7	1464.9	1460.9	1455.1	1449.9	1447.0	1445.3
17.5°	1496.6	1498.9	1497.7	1501.2	1506.9	1509.8	1506.4	1498.9	1493.7	1487.4	1483.9
20°	1548.4	1552.5	1553.6	1553.6	1558.8	1561.7	1556.5	1554.2	1546.1	1541.5	1538.6
22.5°	1607.2	1608.9	1612.4	1615.8	1621.0	1619.9	1618.1	1614.7	1607.2	1603.1	1598.5
25°	1673.4	1675.2	1683.8	1691.3	1693.0	1691.9	1689.6	1687.8	1680.9	1671.7	1668.2
27.5°	1750.6	1754.1	1765.6	1772.5	1772.5	1773.1	1768.5	1774.2	1759.3	1748.3	1747.2
30°	1847.4	1849.7	1859.5	1866.4	1862.9	1860.1	1858.9	1864.7	1848.5	1829.0	1824.4
32.5°	1943.0	1951.1	1959.7	1974.7	1962.6	1957.4	1956.3	1960.3	1941.9	1920.0	1913.6
35°	2045.6	2051.3	2067.4	2080.1	2069.2	2057.1	2062.3	2074.9	2053.0	2023.7	2022.5
37.5°	2159.0	2164.2	2185.0	2198.2	2190.1	2169.4	2178.0	2193.0	2171.1	2134.8	2127.4
40°	2277.1	2288.1	2314.0	2327.8	2314.6	2286.9	2303.1	2319.2	2299.6	2257.5	2240.8
42.5°	2409.6	2426.9	2464.3	2471.3	2445.9	2408.5	2436.7	2462.6	2448.8	2400.4	2394.1
45°	2564.6	2574.9	2621.0	2636.0	2600.9	2554.2	2589.3	2636.6	2626.2	2570.3	2558.2
47.5°	2738.0	2747.8	2795.6	2818.0	2773.7	2710.9	2774.3	2835.9	2829.6	2769.7	2763.9
50°	2943.0	2945.3	3011.6	3036.9	2992.6	2938.4	2994.9	3071.5	3046.2	2969.5	2968.4
52.5°	3167.7	3170.6	3254.1	3303.1	3278.3	3217.2	3284.1	3330.7	3266.2	3166.0	3158.5
55°	3362.4	3376.8	3490.9	3621.1	3655.0	3610.7	3630.8	3609.0	3450.0	3309.4	3287.5
57.5°	3441.9	3470.1	3643.5	3886.6	4107.8	4173.5	4018.0	3809.4	3523.1	3324.4	3303.1
60°	3247.8	3278.3	3547.3	4008.7	4573.3	4858.4	4421.2	3843.4	3356.6	3077.3	3043.9
62.5°	2600.9	2609.5	3005.3	3721.3	4844.6	5583.1	4591.1	3553.7	2872.2	2492.6	2479.3
64°	1871.6	1960.3	2379.7	3262.8	4725.9	5859.0	4493.2	3147.5	2333.0	1948.8	1886.6
65°	1399.8	1424.0	1918.2	2786.4	4516.8	5838.3	4303.1	2759.3	1932.1	1491.4	1422.3
67.5°	528.8	531.7	708.0	1388.9	3215.5	5023.2	3284.1	1501.2	814.0	588.7	567.4
70°	219.5	223.5	259.8	467.2	1381.9	3225.3	1583.6	541.5	297.8	241.4	237.9
72.5°	160.7	163.0	174.0	207.4	425.1	1324.3	520.7	229.8	174.5	156.1	154.4
75°	126.2	127.3	135.4	152.7	198.2	366.9	216.6	157.8	133.1	119.8	118.7
77.5°	96.2	99.1	104.8	116.4	133.1	174.0	143.4	118.1	102.5	91.6	89.9
80°	66.2	69.7	80.6	85.3	89.3	112.9	97.9	89.3	80.1	66.8	62.8
82.5°	40.9	43.2	54.1	58.2	56.5	63.4	62.8	63.9	57.0	41.5	38.6
85°	21.3	22.5	29.4	30.5	28.2	25.9	32.3	37.4	35.1	23.6	23.0
87.5°	4.6	5.2	6.3	5.8	6.3	6.3	8.1	12.1	12.7	8.1	7.5
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)