

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: P451409

Luminaire Tested: **GALN-SA2B-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451409
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-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 11942 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

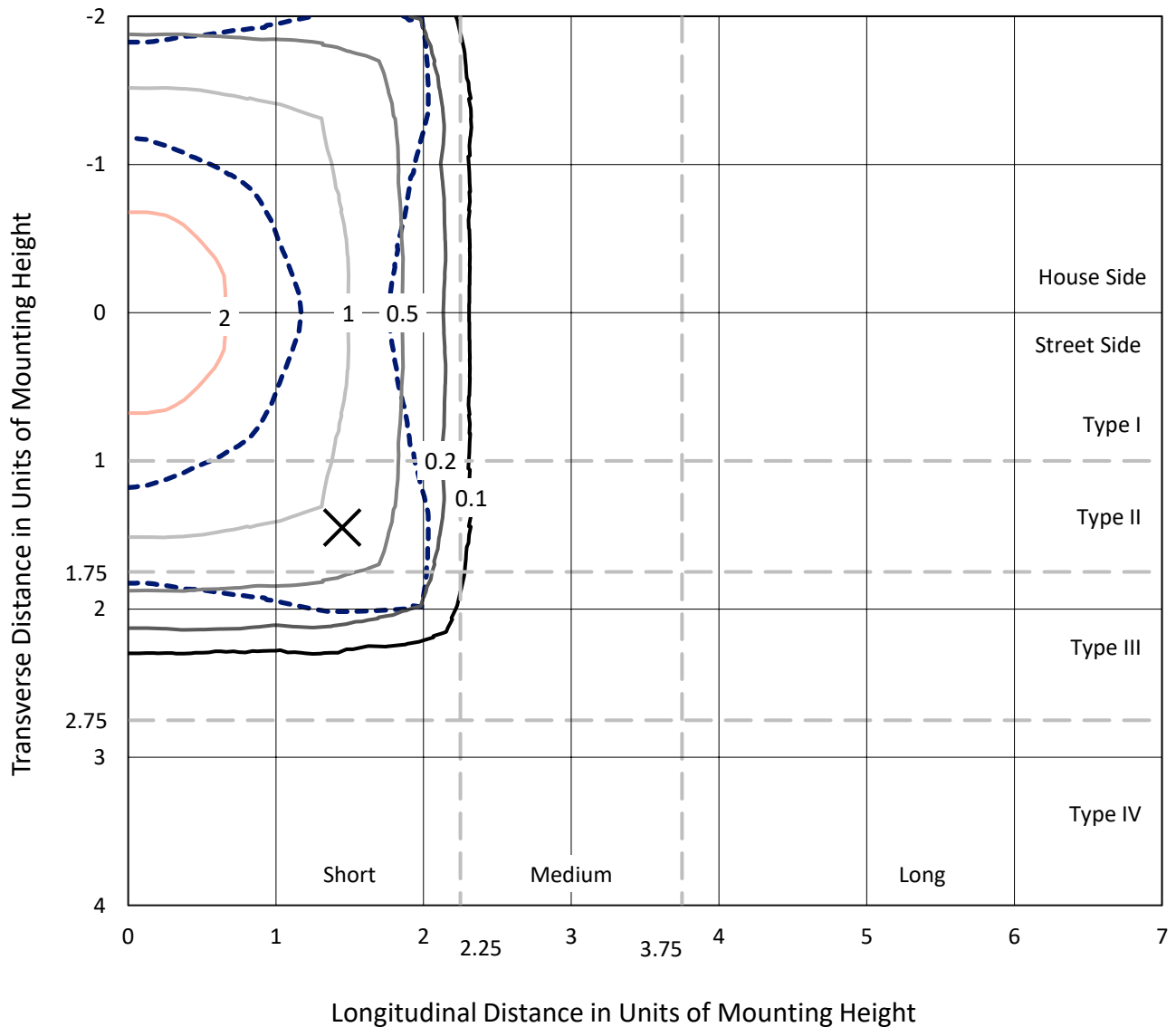
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

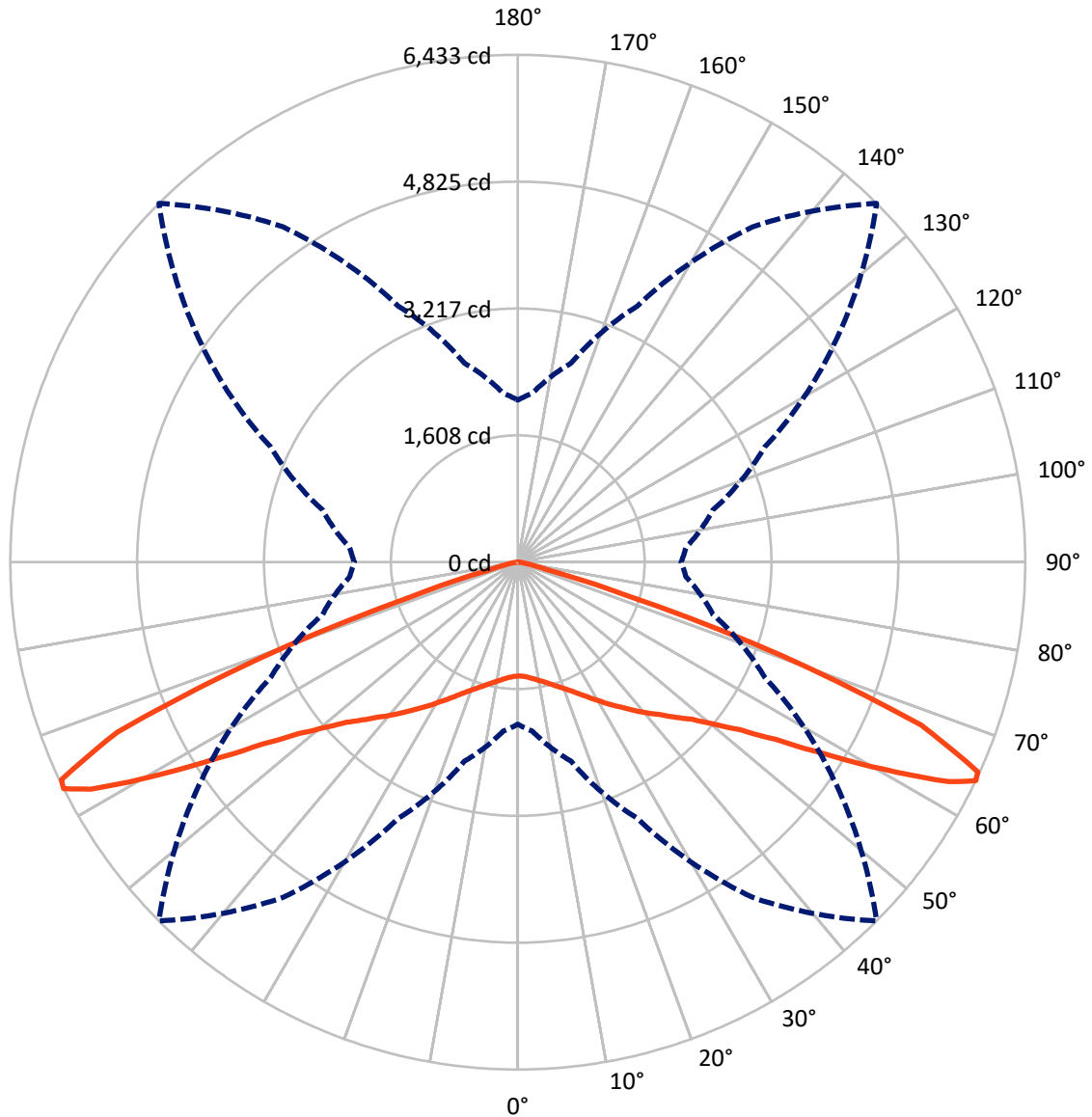
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	5971.0	0.0	5971.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5971.0	0.0	5971.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11942.0	0.0	11942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.2
10°-20°	457.4	3.8
20°-30°	864.4	7.2
30°-40°	1431.5	12.0
40°-50°	2234.8	18.7
50°-60°	3454.9	28.9
60°-70°	2979.1	24.9
70°-80°	337.6	2.8
80°-90°	40.5	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°	11942.0	100.0
0°-180°	11942.0	100.0

Coefficient of Utilization



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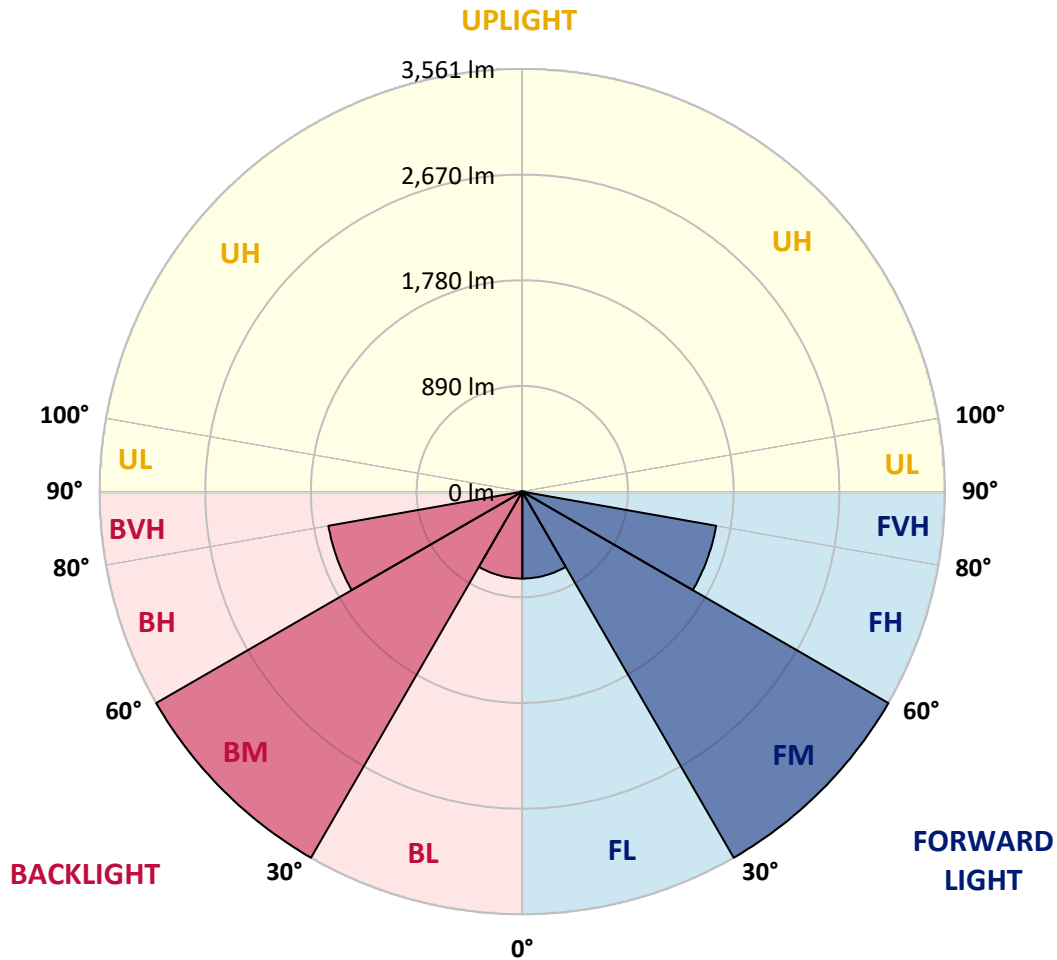
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.8	6.1			
FM	(30°-60°)	3560.6	29.8			
FH	(60°-80°)	1658.4	13.9			G1/1800
FVH	(80°-90°)	20.2	0.2			G1/100
BL	(0°-30°)	731.8	6.1	B2/1000		
BM	(30°-60°)	3560.6	29.8	B3/5000		
BH	(60°-80°)	1658.4	13.9	B3/2500		G1/1800
BVH	(80°-90°)	20.2	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°	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4
2.5°	1449.1	1452.2	1449.7	1449.1	1448.5	1448.5	1448.5	1449.1	1451.6	1453.5	1452.2
5°	1467.4	1470.0	1468.7	1468.1	1467.4	1468.1	1466.8	1466.2	1468.1	1468.1	1467.4
7.5°	1490.2	1493.4	1492.1	1493.4	1494.0	1494.6	1491.5	1488.9	1488.3	1490.2	1488.9
10°	1521.2	1523.7	1524.4	1525.0	1526.3	1525.6	1521.8	1517.4	1516.8	1516.1	1515.5
12.5°	1556.0	1557.9	1558.5	1561.0	1562.9	1563.6	1559.1	1555.3	1549.0	1550.3	1547.8
15°	1595.2	1599.0	1598.4	1602.2	1607.2	1608.5	1604.0	1597.7	1592.0	1588.9	1587.0
17.5°	1643.3	1645.8	1644.5	1648.3	1654.7	1657.8	1654.0	1645.8	1640.1	1633.1	1629.3
20°	1700.2	1704.6	1705.9	1705.9	1711.6	1714.7	1709.0	1706.5	1697.7	1692.6	1689.4
22.5°	1764.7	1766.6	1770.4	1774.2	1779.9	1778.6	1776.7	1772.9	1764.7	1760.3	1755.2
25°	1837.4	1839.3	1848.8	1857.1	1859.0	1857.7	1855.2	1853.3	1845.7	1835.5	1831.8
27.5°	1922.2	1926.0	1938.6	1946.2	1946.2	1946.9	1941.8	1948.1	1931.7	1919.7	1918.4
30°	2028.5	2031.0	2041.7	2049.3	2045.5	2042.4	2041.1	2047.4	2029.7	2008.2	2003.2
32.5°	2133.5	2142.3	2151.8	2168.2	2155.0	2149.3	2148.0	2152.4	2132.2	2108.2	2101.2
35°	2246.0	2252.4	2270.1	2284.0	2272.0	2258.7	2264.4	2278.3	2254.3	2222.0	2220.7
37.5°	2370.7	2376.3	2399.1	2413.7	2404.8	2382.0	2391.5	2408.0	2383.9	2344.1	2335.9
40°	2500.3	2512.3	2540.8	2556.0	2541.4	2511.1	2528.8	2546.5	2525.0	2478.8	2460.5
42.5°	2645.8	2664.8	2705.9	2713.5	2685.6	2644.5	2675.5	2704.0	2688.8	2635.7	2628.7
45°	2815.9	2827.3	2877.9	2894.4	2855.8	2804.6	2843.1	2895.0	2883.6	2822.3	2809.0
47.5°	3006.3	3017.1	3069.6	3094.2	3045.5	2976.6	3046.2	3113.9	3106.9	3041.1	3034.8
50°	3231.5	3234.0	3306.8	3334.6	3285.9	3226.4	3288.4	3372.6	3344.7	3260.6	3259.3
52.5°	3478.2	3481.3	3573.1	3626.8	3599.6	3532.6	3605.9	3657.2	3586.3	3476.3	3468.1
55°	3692.0	3707.8	3833.0	3976.0	4013.3	3964.6	3986.7	3962.7	3788.1	3633.8	3609.7
57.5°	3779.3	3810.2	4000.6	4267.6	4510.4	4582.5	4411.8	4182.8	3868.4	3650.2	3626.8
60°	3566.1	3599.6	3895.0	4401.6	5021.5	5334.6	4854.5	4220.1	3685.6	3378.9	3342.2
62.5°	2855.8	2865.3	3299.8	4086.0	5319.4	6130.3	5041.1	3902.0	3153.7	2736.9	2722.3
64°	2055.0	2152.4	2612.9	3582.5	5189.1	6433.3	4933.6	3456.0	2561.7	2139.8	2071.5
65°	1537.0	1563.6	2106.3	3059.5	4959.5	6410.5	4724.9	3029.7	2121.4	1637.6	1561.7
67.5°	580.6	583.8	777.4	1525.0	3530.7	5515.5	3605.9	1648.3	893.7	646.4	623.0
70°	241.0	245.4	285.3	513.0	1517.4	3541.4	1738.8	594.6	327.0	265.0	261.2
72.5°	176.5	179.0	191.0	227.7	466.8	1454.1	571.8	252.4	191.7	171.4	169.5
75°	138.5	139.8	148.6	167.6	217.6	402.9	237.8	173.3	146.1	131.6	130.3
77.5°	105.6	108.8	115.1	127.8	146.1	191.0	157.5	129.7	112.6	100.6	98.7
80°	72.7	76.5	88.6	93.6	98.0	124.0	107.5	98.0	87.9	73.4	68.9
82.5°	44.9	47.4	59.5	63.9	62.0	69.6	68.9	70.2	62.6	45.5	42.4
85°	23.4	24.7	32.3	33.5	31.0	28.5	35.4	41.1	38.6	25.9	25.3
87.5°	5.1	5.7	7.0	6.3	7.0	7.0	8.9	13.3	13.9	8.9	8.2
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)