

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: P451640

Luminaire Tested: **GALN-SA2C-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14828 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

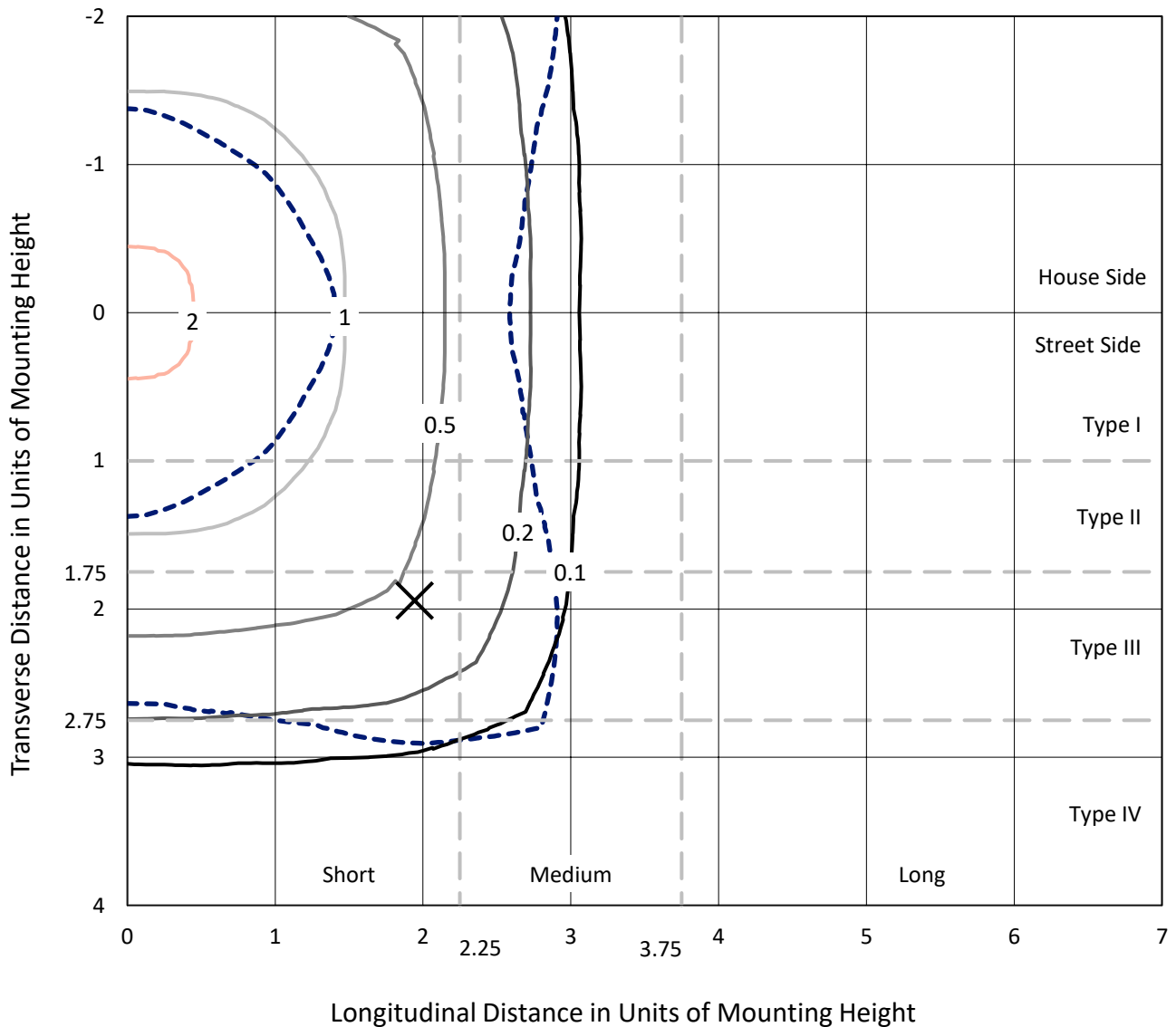
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

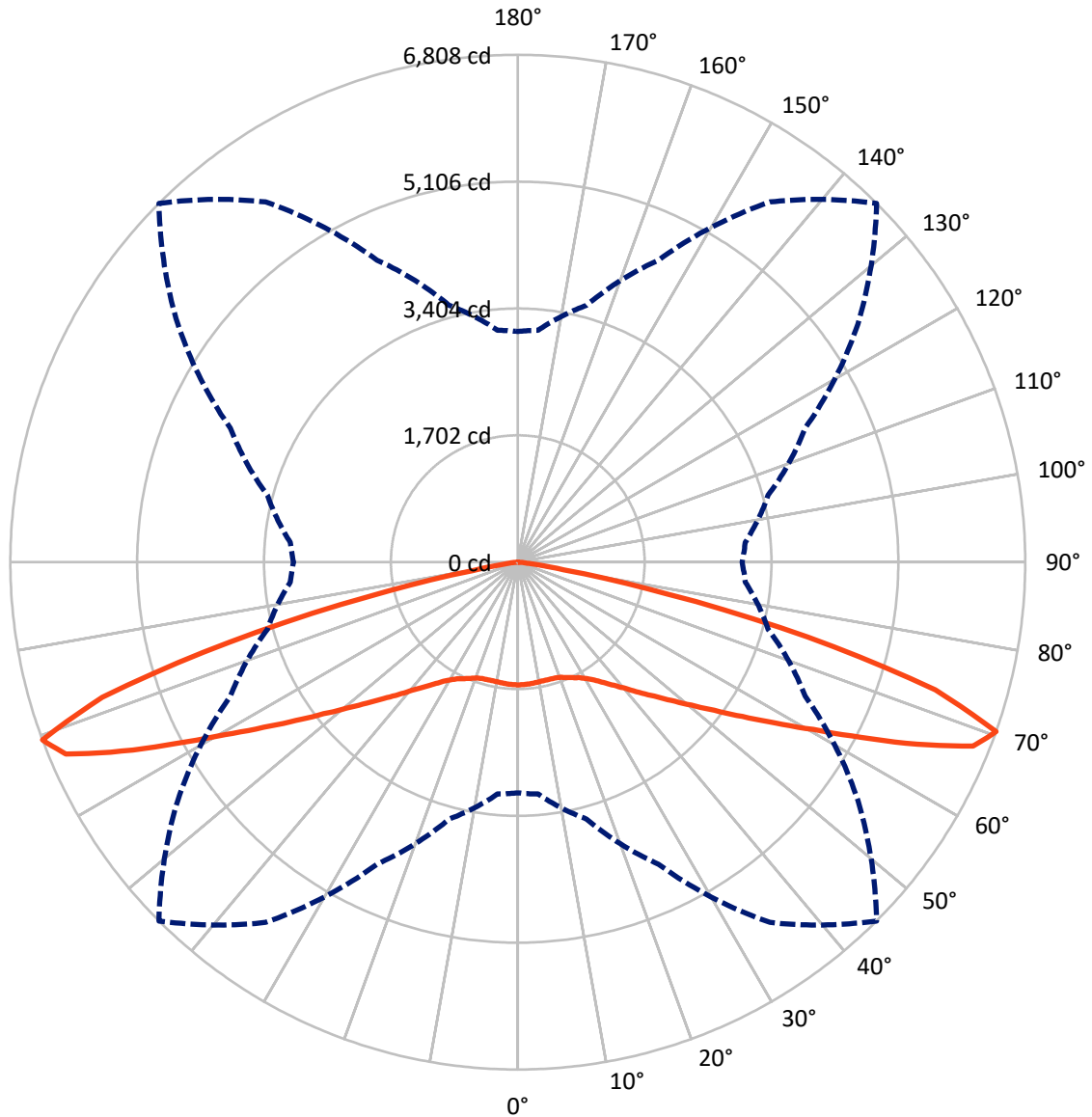
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7414.0	0.0	7414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7414.0	0.0	7414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14828.0	0.0	14828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.1
10°-20°	458.2	3.1
20°-30°	783.6	5.3
30°-40°	1243.8	8.4
40°-50°	2006.6	13.5
50°-60°	3264.8	22.0
60°-70°	4732.8	31.9
70°-80°	2099.3	14.2
80°-90°	82.8	0.6
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°	14828.0	100.0
0°-180°	14828.0	100.0



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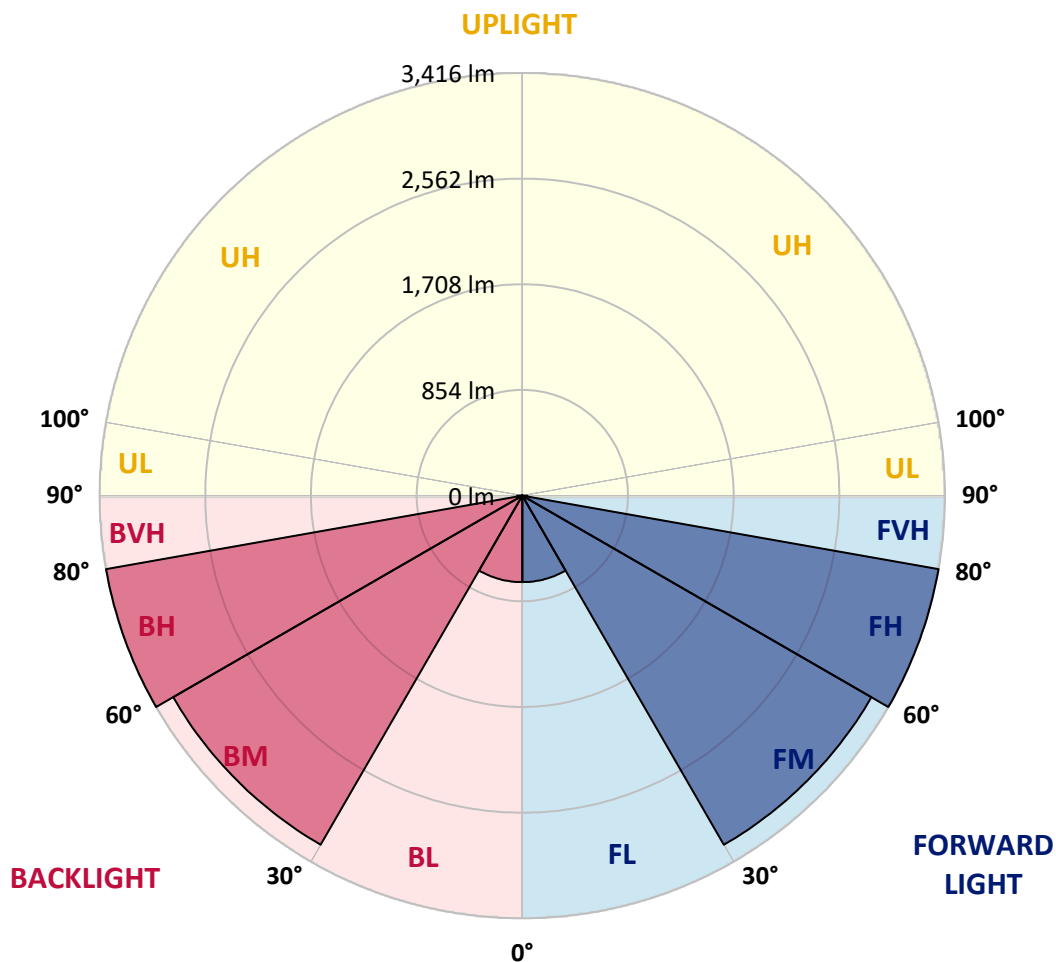
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.0	4.7			
FM (30°-60°)	3257.6	22.0			
FH (60°-80°)	3416.0	23.0			G2/5000
FVH (80°-90°)	41.4	0.3			G1/100
BL (0°-30°)	699.0	4.7	B2/1000		
BM (30°-60°)	3257.6	22.0	B3/5000		
BH (60°-80°)	3416.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	41.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6	1646.6
2.5°	1646.6	1648.1	1645.8	1644.2	1643.5	1643.5	1642.7	1643.5	1648.1	1648.9	1646.6
5°	1641.9	1643.5	1642.7	1641.1	1640.3	1640.3	1639.5	1638.8	1642.7	1644.2	1643.5
7.5°	1635.6	1636.4	1635.6	1634.9	1635.6	1634.9	1632.5	1630.9	1634.1	1634.1	1633.3
10°	1624.7	1626.3	1625.5	1626.3	1627.8	1627.8	1624.7	1621.6	1622.4	1620.8	1620.8
12.5°	1611.4	1613.8	1614.5	1617.7	1621.6	1626.3	1619.2	1612.2	1610.6	1609.8	1609.1
15°	1602.8	1605.2	1608.3	1611.4	1618.4	1628.6	1618.4	1607.5	1604.4	1601.3	1599.7
17.5°	1600.5	1603.6	1608.3	1613.0	1622.4	1632.5	1623.9	1613.0	1605.2	1600.5	1598.9
20°	1606.7	1609.1	1616.1	1624.7	1638.0	1648.1	1639.5	1627.8	1616.1	1609.1	1606.7
22.5°	1619.2	1623.1	1631.7	1647.4	1666.1	1681.0	1669.2	1649.7	1630.9	1621.6	1618.4
25°	1646.6	1649.7	1659.9	1681.0	1702.8	1716.9	1704.4	1681.7	1656.0	1643.5	1639.5
27.5°	1688.0	1692.7	1703.6	1728.6	1746.6	1754.4	1745.8	1730.2	1711.4	1698.2	1695.0
30°	1746.6	1752.1	1768.5	1795.1	1806.8	1811.5	1807.6	1797.4	1784.1	1770.1	1766.9
32.5°	1825.5	1828.7	1847.4	1872.4	1883.4	1884.9	1880.2	1875.6	1853.7	1830.2	1828.7
35°	1913.8	1919.3	1942.0	1971.7	1981.8	1982.6	1973.2	1966.2	1940.4	1921.7	1921.7
37.5°	2031.1	2033.4	2055.3	2088.9	2099.8	2096.7	2092.0	2085.8	2058.4	2034.2	2035.0
40°	2168.6	2173.3	2192.1	2231.1	2231.1	2227.2	2230.3	2225.7	2198.3	2174.9	2175.6
42.5°	2331.9	2334.3	2356.9	2398.4	2395.2	2387.4	2390.5	2384.3	2367.1	2340.5	2331.2
45°	2506.2	2515.6	2554.7	2594.5	2588.3	2563.3	2575.8	2574.2	2558.6	2518.7	2521.1
47.5°	2716.4	2732.1	2769.6	2817.2	2810.2	2771.1	2785.2	2794.6	2772.7	2728.9	2721.1
50°	2953.2	2963.4	3018.9	3063.4	3057.2	3015.7	3047.8	3049.3	2994.6	2932.9	2932.9
52.5°	3205.6	3215.8	3290.8	3360.4	3364.3	3304.1	3329.9	3328.3	3239.2	3158.0	3142.3
55°	3488.5	3493.2	3590.1	3692.5	3714.4	3655.8	3658.9	3627.6	3512.0	3417.4	3408.8
57.5°	3780.8	3798.0	3905.1	4037.9	4102.8	4066.8	4050.4	3966.8	3855.0	3746.4	3740.9
60°	4104.3	4105.1	4244.2	4401.3	4532.6	4556.8	4489.6	4377.9	4233.3	4089.5	4083.2
62.5°	4328.6	4362.2	4538.1	4803.8	5039.0	5175.0	4997.6	4763.1	4478.7	4246.6	4223.1
65°	4374.7	4397.4	4665.4	5115.6	5596.2	5889.2	5479.0	4980.4	4495.1	4185.6	4170.0
67.5°	4002.0	4026.2	4387.2	5078.1	5986.9	6587.9	5791.6	4875.7	4216.9	3833.9	3803.5
70°	3095.4	3122.8	3569.0	4470.1	5900.2	6807.5	5568.8	4252.8	3477.6	3064.2	3008.7
72.5°	1645.8	1746.6	2128.0	3068.1	4788.9	5861.1	4566.2	3103.3	2242.8	1833.4	1759.9
75°	601.0	613.5	826.0	1360.6	2786.0	4019.2	2893.0	1480.1	851.0	657.2	623.6
77.5°	248.5	247.7	272.0	411.1	1012.0	2058.4	1129.2	434.5	271.2	250.9	247.7
80°	146.9	146.9	161.8	171.1	266.5	621.3	297.7	193.8	162.5	148.5	150.8
82.5°	65.6	69.6	102.4	107.8	128.9	170.4	143.8	123.5	106.3	73.5	66.4
85°	35.9	31.3	53.9	56.3	61.7	63.3	68.0	67.2	61.7	35.9	36.7
87.5°	7.0	8.6	15.6	11.7	13.3	11.7	15.6	21.9	22.7	12.5	10.2
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)