

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: P452338

Luminaire Tested: **GALN-SA3B-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17778 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

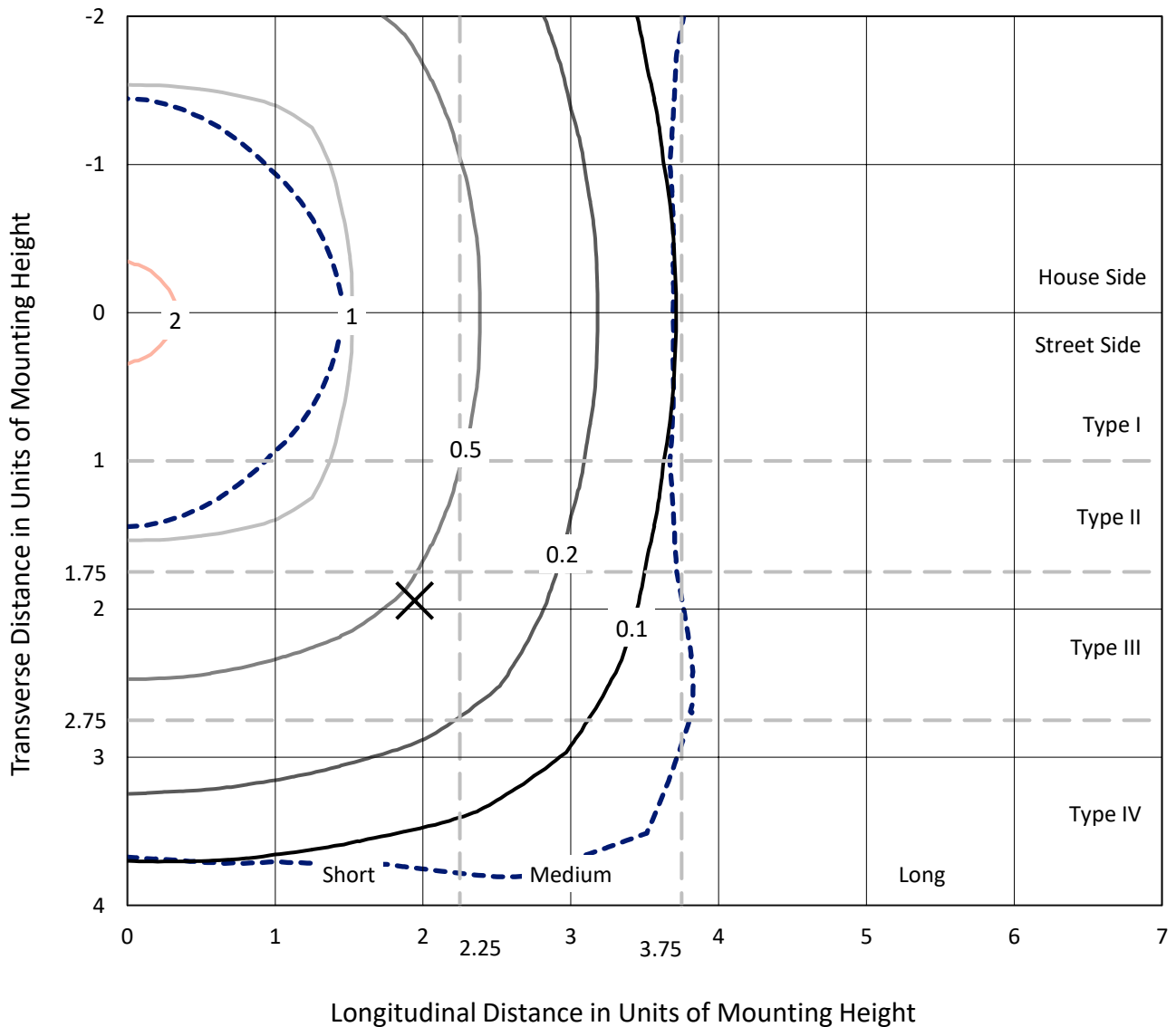
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

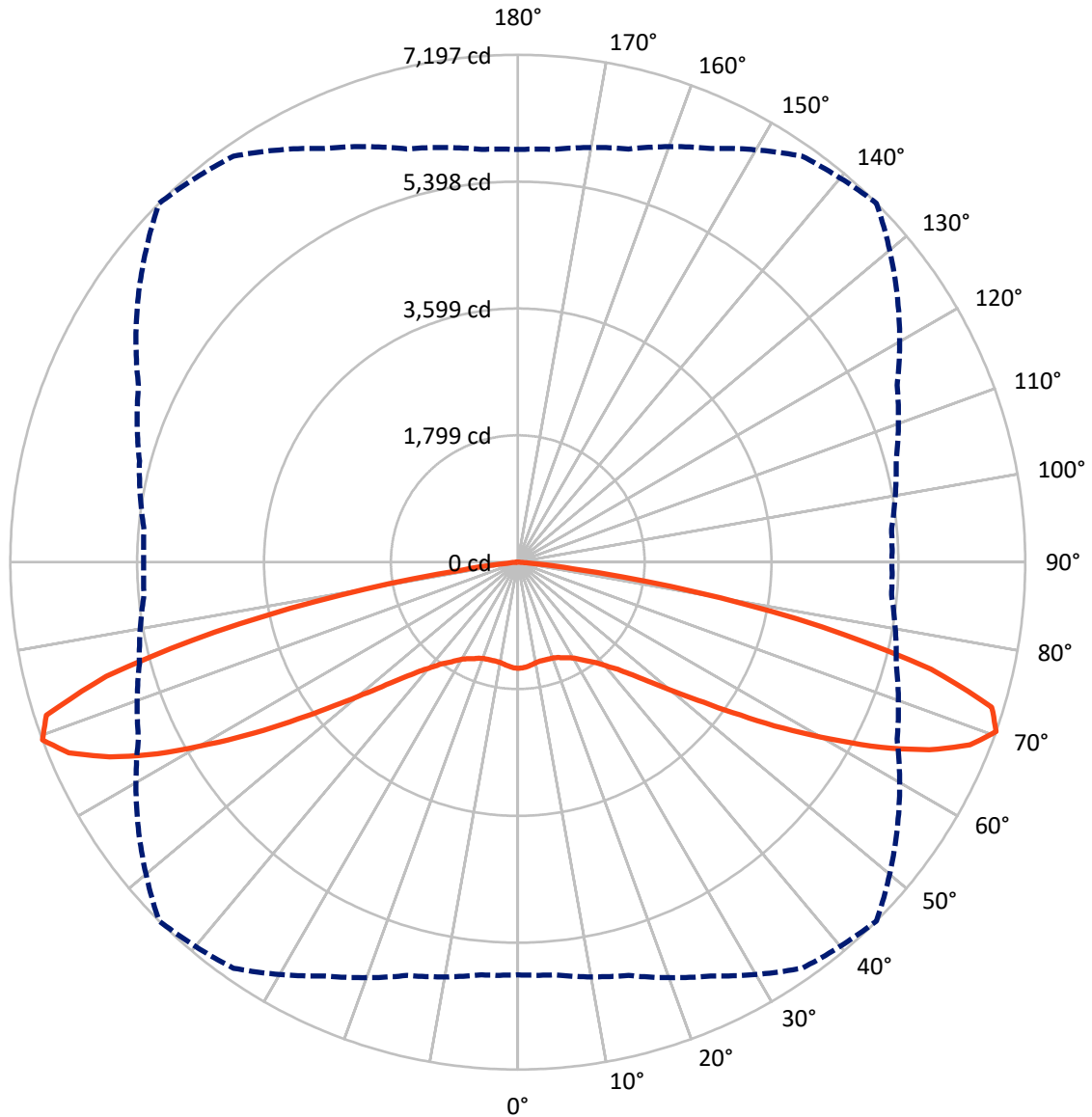
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	8889.0	0.0	8889.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8889.0	0.0	8889.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17778.0	0.0	17778.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	0.8
10°-20°	412.1	2.3
20°-30°	702.1	3.9
30°-40°	1088.2	6.1
40°-50°	1831.6	10.3
50°-60°	3332.6	18.7
60°-70°	5641.9	31.7
70°-80°	4367.1	24.6
80°-90°	261.7	1.5
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°	17778.0	100.0
0°-180°	17778.0	100.0



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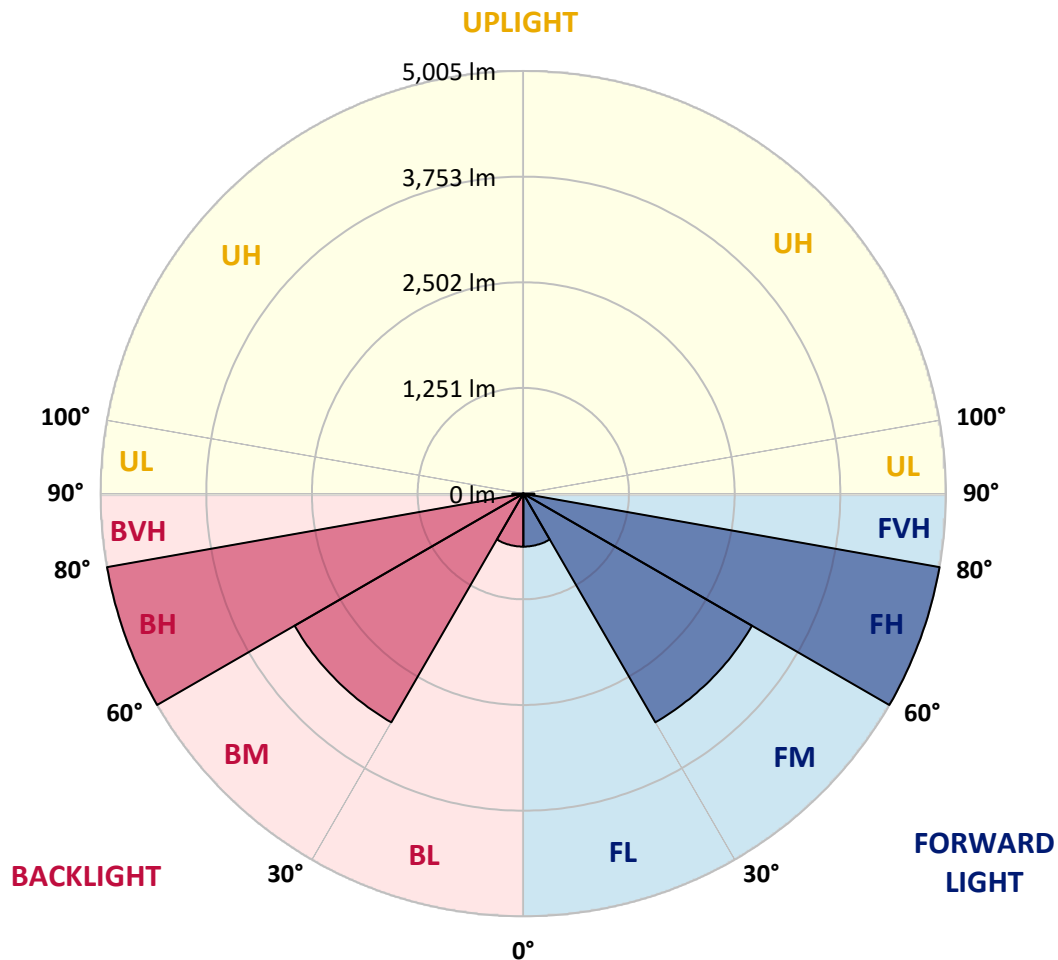
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.5	3.5			
FM (30°-60°)	3126.2	17.6			
FH (60°-80°)	5004.5	28.1			G3/7500
FVH (80°-90°)	130.8	0.7			G2/225
BL (0°-30°)	627.5	3.5	B2/1000		
BM (30°-60°)	3126.2	17.6	B3/5000		
BH (60°-80°)	5004.5	28.1	B5		G3/7500
BVH (80°-90°)	130.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1501.4	1502.3	1502.3	1500.4	1499.5	1499.5	1498.6	1498.6	1501.4	1502.3	1503.2
5°	1488.2	1488.2	1488.2	1487.3	1485.4	1485.4	1483.5	1483.5	1484.5	1487.3	1485.4
7.5°	1470.4	1472.3	1472.3	1468.5	1465.7	1465.7	1464.8	1465.7	1466.6	1469.4	1468.5
10°	1464.8	1465.7	1461.0	1454.4	1449.7	1446.9	1447.8	1449.7	1454.4	1456.3	1457.2
12.5°	1468.5	1468.5	1460.1	1450.7	1442.2	1438.5	1437.5	1444.1	1452.5	1458.2	1460.1
15°	1473.2	1471.3	1461.0	1448.8	1440.3	1439.4	1438.5	1443.2	1455.4	1466.6	1467.6
17.5°	1476.0	1475.1	1461.9	1446.9	1442.2	1442.2	1441.3	1445.0	1458.2	1472.3	1473.2
20°	1485.4	1482.6	1467.6	1451.6	1447.8	1449.7	1446.9	1451.6	1465.7	1482.6	1486.3
22.5°	1504.2	1501.4	1486.3	1470.4	1468.5	1468.5	1467.6	1472.3	1487.3	1505.1	1507.9
25°	1526.7	1523.9	1509.8	1498.6	1500.4	1504.2	1502.3	1503.2	1515.5	1530.5	1535.2
27.5°	1556.8	1552.1	1539.9	1530.5	1536.1	1536.1	1536.1	1535.2	1542.7	1556.8	1561.5
30°	1593.4	1591.5	1578.4	1577.4	1582.1	1577.4	1577.4	1578.4	1579.3	1592.4	1597.1
32.5°	1641.3	1637.5	1630.9	1629.1	1642.2	1646.0	1632.8	1620.6	1627.2	1640.3	1643.2
35°	1720.1	1714.5	1705.1	1694.8	1705.1	1723.0	1694.8	1685.4	1702.3	1720.1	1722.0
37.5°	1827.2	1824.4	1809.3	1790.6	1789.6	1808.4	1779.3	1778.4	1810.3	1831.9	1834.7
40°	1961.5	1964.3	1945.5	1927.6	1918.3	1933.3	1910.7	1919.2	1950.2	1974.6	1972.7
42.5°	2150.2	2139.9	2110.7	2093.8	2083.5	2077.9	2072.2	2085.4	2120.1	2146.4	2167.1
45°	2370.8	2367.1	2330.5	2309.8	2287.3	2278.8	2276.9	2300.4	2342.7	2374.6	2377.4
47.5°	2620.6	2612.1	2588.7	2567.1	2558.6	2548.3	2538.9	2556.7	2599.0	2621.5	2628.1
50°	2877.9	2879.7	2879.7	2876.0	2884.4	2886.3	2861.0	2867.5	2891.0	2889.1	2887.2
52.5°	3171.7	3182.1	3230.9	3235.6	3276.0	3303.2	3257.2	3230.0	3221.5	3170.8	3174.6
55°	3517.3	3526.7	3599.9	3673.1	3782.1	3828.1	3731.4	3646.9	3586.8	3509.8	3513.5
57.5°	3948.3	3952.9	4022.4	4163.3	4336.0	4444.0	4274.1	4106.9	3984.9	3911.6	3882.5
60°	4412.1	4416.8	4518.2	4690.0	4958.6	5090.0	4879.7	4606.5	4452.5	4340.7	4348.2
62.5°	4968.9	4987.7	5078.7	5315.4	5641.2	5788.6	5509.7	5144.5	4936.0	4797.1	4802.7
65°	5565.1	5597.0	5696.6	5956.7	6257.1	6415.8	6074.0	5652.4	5393.3	5223.3	5241.2
67.5°	5952.0	5980.1	6123.8	6411.1	6785.7	6917.2	6475.9	5984.8	5660.9	5458.1	5420.5
70°	5853.4	5876.8	6068.4	6475.9	7030.8	7197.0	6571.7	5936.0	5554.8	5321.0	5306.0
72.5°	5167.0	5118.2	5398.0	5982.9	6751.0	7029.9	6270.3	5421.5	4941.7	4701.3	4673.1
75°	3424.3	3530.4	3943.6	4632.7	5711.6	6057.1	5352.0	4352.9	3749.2	3549.2	3518.2
77.5°	1144.6	1226.3	1593.4	2626.2	3893.8	4413.0	3899.4	2846.9	2014.0	1622.5	1630.0
80°	303.3	299.5	387.8	722.0	1682.6	2555.8	1958.6	964.3	527.7	382.1	362.4
82.5°	108.9	122.1	156.8	200.0	446.0	794.3	560.5	270.4	198.1	146.5	141.8
85°	47.9	46.9	67.6	79.8	111.7	148.4	131.5	114.6	100.5	66.7	62.0
87.5°	10.3	10.3	16.0	12.2	19.7	19.7	24.4	29.1	30.0	19.7	16.0
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)