

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: P456285

Luminaire Tested: **GALN-SA7C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456285
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-SA7C-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50522 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

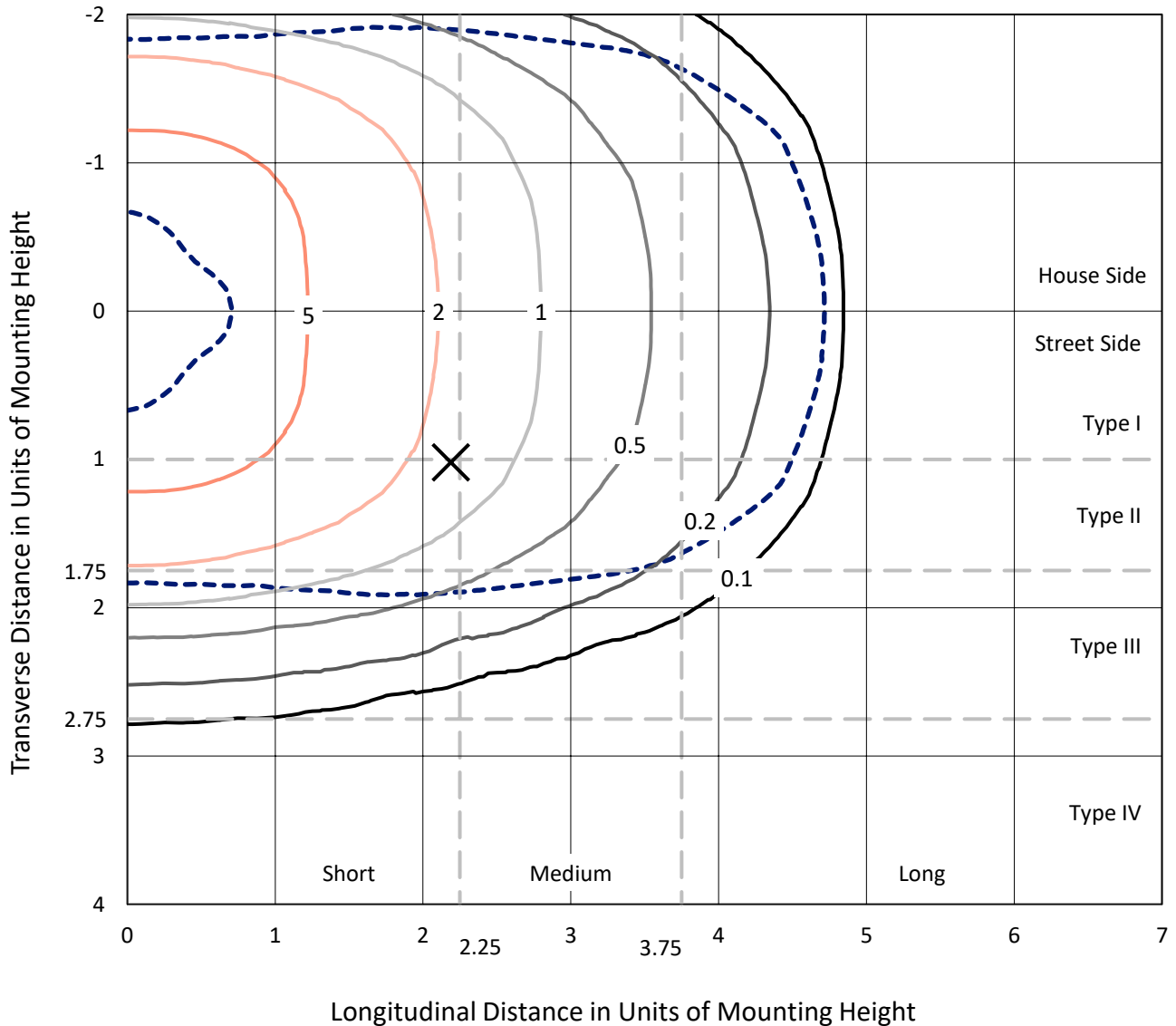
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

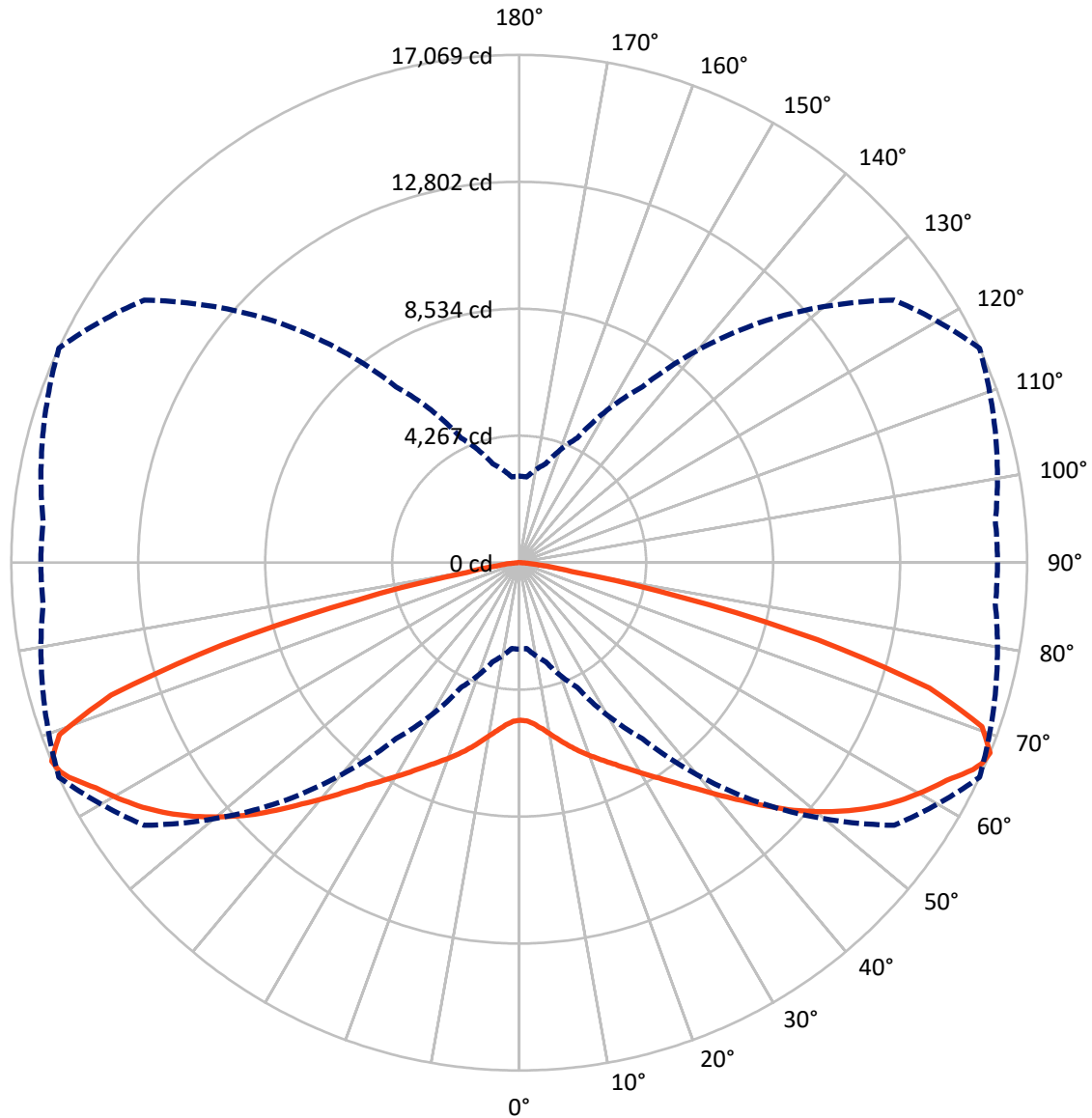
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	25261.0	0.0	25261.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25261.0	0.0	25261.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50522.0	0.0	50522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.9	1.0
10°-20°	1746.8	3.5
20°-30°	3416.8	6.8
30°-40°	5811.6	11.5
40°-50°	9198.0	18.2
50°-60°	12196.3	24.1
60°-70°	11504.9	22.8
70°-80°	5687.4	11.3
80°-90°	438.3	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°	50522.0	100.0
0°-180°	50522.0	100.0

Coefficient of Utilization



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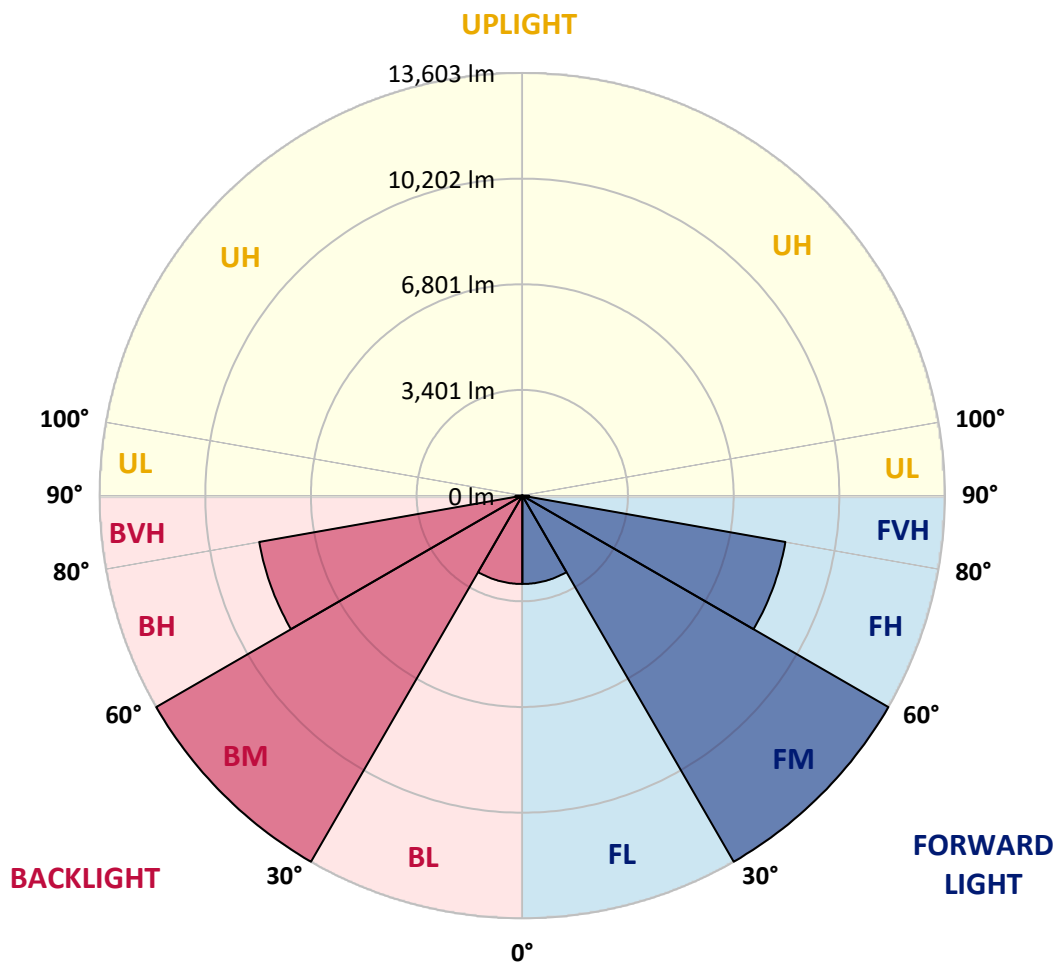
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2842.8	5.6			
FM	(30°-60°)	13602.9	26.9			
FH	(60°-80°)	8596.2	17.0			G4/12000
FVH	(80°-90°)	219.2	0.4			G2/225
BL	(0°-30°)	2842.8	5.6	B4/5000		
BM	(30°-60°)	13602.9	26.9	B5		
BH	(60°-80°)	8596.2	17.0	B5		G5
BVH	(80°-90°)	219.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7
2.5°	5264.7	5270.1	5275.5	5283.6	5294.4	5310.7	5321.5	5329.6	5351.3	5354.0	5351.3
5°	5245.7	5251.1	5264.7	5289.0	5324.2	5372.9	5410.8	5456.8	5492.0	5516.4	5511.0
7.5°	5243.0	5253.8	5275.5	5326.9	5394.6	5478.5	5565.1	5643.6	5711.3	5765.4	5757.3
10°	5286.3	5299.9	5335.0	5410.8	5516.4	5638.2	5760.0	5876.4	5973.8	6044.2	6068.6
12.5°	5359.4	5370.2	5435.2	5548.9	5700.5	5852.0	5990.1	6133.5	6268.9	6388.0	6388.0
15°	5486.6	5505.6	5586.8	5751.9	5938.7	6114.6	6255.3	6406.9	6553.1	6688.4	6729.0
17.5°	5662.6	5689.6	5811.4	6022.6	6260.8	6423.2	6555.8	6680.3	6807.5	6937.4	6956.4
20°	5903.5	5930.5	6092.9	6347.4	6628.9	6823.8	6913.1	6942.9	7005.1	7129.6	7145.9
22.5°	6231.0	6258.1	6439.4	6726.3	7040.3	7251.4	7289.3	7219.0	7202.7	7300.2	7311.0
25°	6601.8	6626.2	6834.6	7143.2	7468.0	7698.1	7687.2	7514.0	7416.5	7476.1	7492.3
27.5°	7018.7	7053.8	7265.0	7584.4	7936.2	8139.3	8106.8	7855.0	7646.6	7635.8	7641.2
30°	7551.9	7589.8	7790.1	8095.9	8442.4	8629.2	8561.5	8223.2	7901.1	7792.8	7792.8
32.5°	8114.9	8209.6	8412.6	8732.0	9002.7	9138.1	9035.2	8629.2	8201.5	8049.9	8041.8
35°	8848.4	8899.9	9100.2	9411.4	9614.4	9720.0	9522.4	9086.6	8594.0	8415.3	8391.0
37.5°	9565.7	9609.0	9841.8	10139.6	10385.9	10380.5	10112.5	9630.7	9081.2	8880.9	8864.7
40°	10299.3	10345.3	10610.5	10883.9	11130.2	11108.6	10783.8	10245.1	9660.5	9435.8	9479.1
42.5°	10935.3	10986.8	11287.2	11677.0	11899.0	11893.5	11517.3	10911.0	10302.0	10101.7	10139.6
45°	11514.6	11560.6	11909.8	12356.4	12681.2	12721.8	12310.4	11668.9	11043.6	10786.5	10797.3
47.5°	11923.3	12009.9	12375.3	12886.9	13328.1	13471.6	13068.3	12440.3	11720.3	11452.3	11468.6
50°	12234.6	12288.7	12686.6	13268.6	13826.2	14123.9	13799.1	13154.9	12397.0	12112.8	12150.7
52.5°	12272.5	12337.5	12770.5	13441.8	14156.4	14608.4	14448.7	13853.2	13087.2	12794.9	12876.1
55°	11963.9	12001.8	12518.8	13333.5	14286.3	14968.4	15009.0	14502.9	13745.0	13523.0	13577.2
57.5°	11084.2	11181.7	11836.7	12827.4	14107.7	15160.6	15428.6	15092.9	14410.8	14191.6	14278.2
60°	9641.5	9739.0	10396.7	11652.6	13433.7	15071.3	15775.1	15615.4	15014.4	14838.5	14884.5
62.5°	7554.6	7546.5	8361.2	9901.4	12093.8	14632.8	16032.2	16118.8	15609.9	15388.0	15458.4
65°	4896.5	4920.9	5708.6	7367.8	10071.9	13517.6	16089.0	16760.3	16194.6	15859.0	15910.4
66°	3938.3	4011.4	4680.0	6209.3	9040.6	12786.8	15918.5	16949.8	16373.2	15967.2	15991.6
67.5°	2907.1	2893.5	3443.0	4623.2	7219.0	11398.2	15385.3	17068.9	16576.3	16064.7	16075.5
70°	1659.2	1656.5	1851.4	2538.9	4244.2	8025.6	12968.1	16497.8	16987.7	16416.6	16386.8
72.5°	1212.6	1204.5	1231.6	1402.1	2070.7	4052.0	8945.9	14419.0	16776.6	16359.7	16275.8
75°	1017.7	1012.3	1006.9	1028.6	1161.2	1835.2	4747.7	10372.3	14557.0	15355.5	15268.9
77.5°	831.0	831.0	833.7	828.3	833.7	966.3	1967.8	5559.7	8864.7	9895.9	10136.9
80°	649.6	646.9	692.9	674.0	630.7	619.9	871.6	1789.2	2942.3	2926.0	2414.4
82.5°	479.1	446.6	527.8	514.3	465.6	395.2	508.9	763.3	982.6	638.8	473.7
85°	303.2	300.5	373.5	341.1	284.2	186.8	243.6	327.5	406.0	246.3	200.3
87.5°	54.1	51.4	119.1	86.6	86.6	54.1	67.7	89.3	132.6	92.0	67.7
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)