

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: P457909

Luminaire Tested: **GALN-SA9B-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457909
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-SA9B-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53222 lumens
Efficiency: N/A
Efficacy: 146.2 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

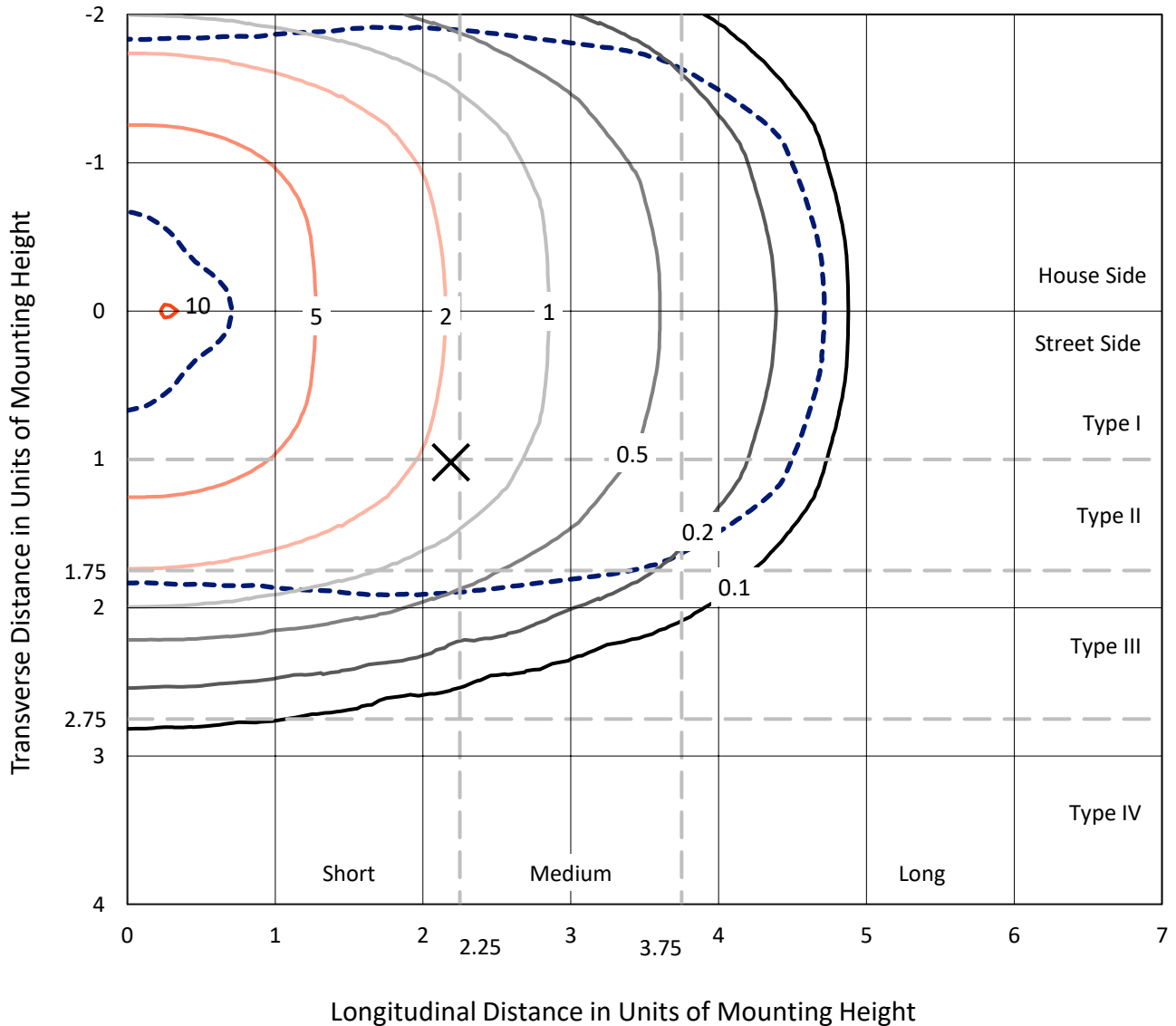
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

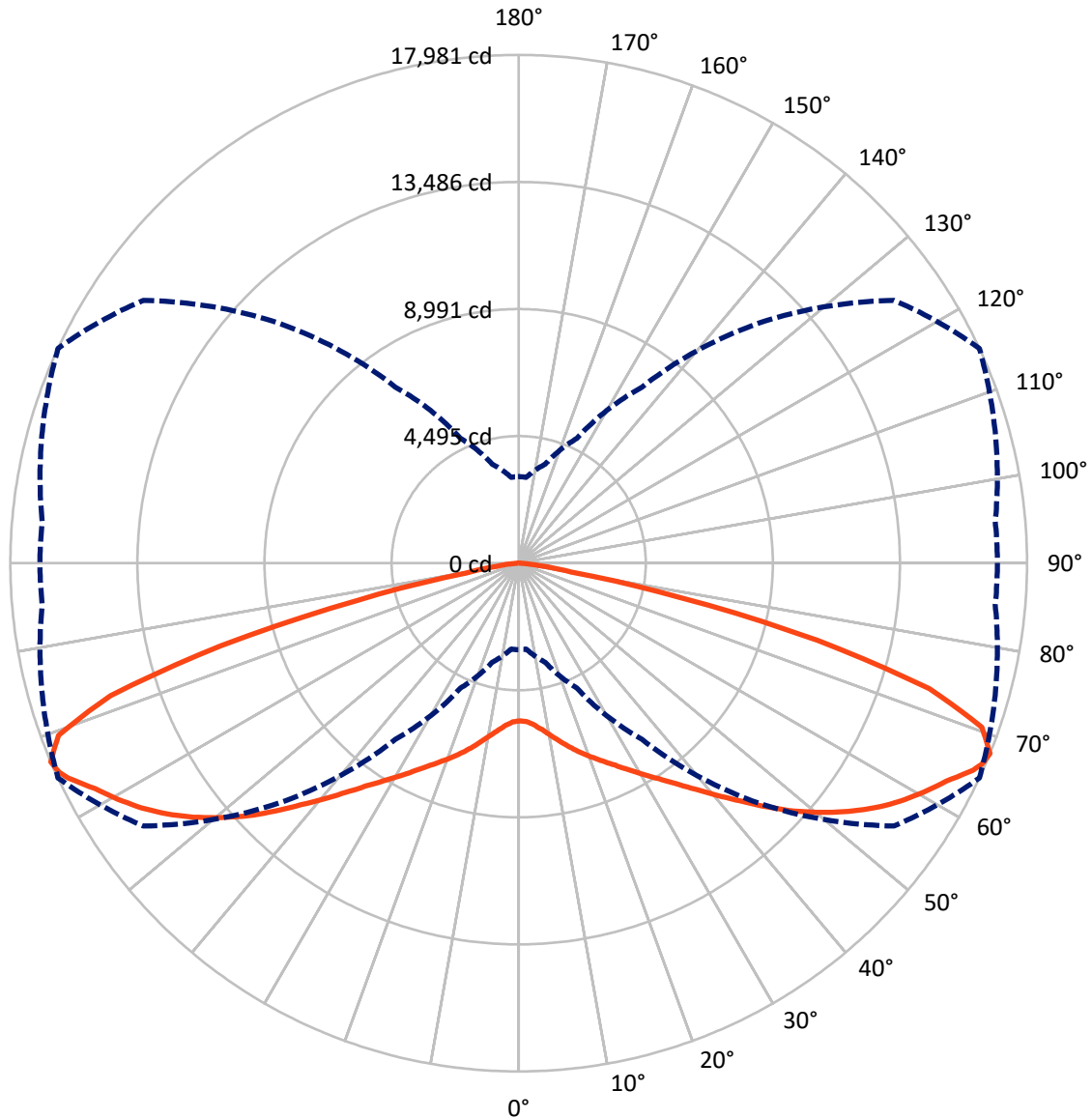
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	26611.0	0.0	26611.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26611.0	0.0	26611.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53222.0	0.0	53222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	1.0
10°-20°	1840.1	3.5
20°-30°	3599.4	6.8
30°-40°	6122.1	11.5
40°-50°	9689.5	18.2
50°-60°	12848.1	24.1
60°-70°	12119.7	22.8
70°-80°	5991.4	11.3
80°-90°	461.7	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°	53222.0	100.0
0°-180°	53222.0	100.0

Coefficient of Utilization



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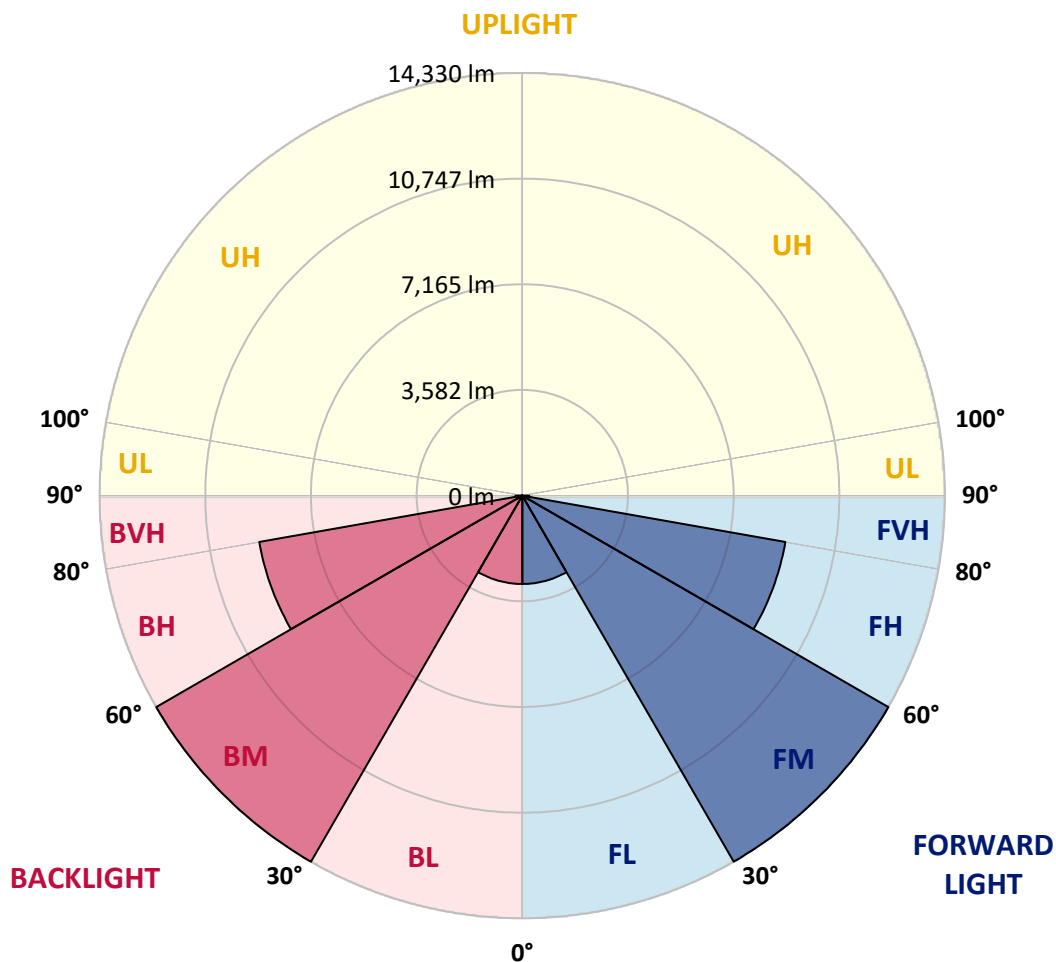
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2994.7	5.6			
FM (30°-60°)	14329.9	26.9			
FH (60°-80°)	9055.6	17.0			G4/12000
FVH (80°-90°)	230.9	0.4			G3/500
BL (0°-30°)	2994.7	5.6	B4/5000		
BM (30°-60°)	14329.9	26.9	B5		
BH (60°-80°)	9055.6	17.0	B5		G5
BVH (80°-90°)	230.9	0.4			G3/500
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°	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5	5574.5
2.5°	5546.0	5551.7	5557.4	5566.0	5577.4	5594.5	5605.9	5614.5	5637.3	5640.1	5637.3
5°	5526.1	5531.8	5546.0	5571.7	5608.8	5660.1	5700.0	5748.5	5785.5	5811.2	5805.5
7.5°	5523.2	5534.6	5557.4	5611.6	5682.9	5771.3	5862.5	5945.2	6016.5	6073.5	6065.0
10°	5568.8	5583.1	5620.2	5700.0	5811.2	5939.5	6067.8	6190.4	6293.1	6367.2	6392.9
12.5°	5645.8	5657.2	5725.7	5845.4	6005.1	6164.8	6310.2	6461.3	6603.9	6729.4	6729.4
15°	5779.8	5799.8	5885.3	6059.3	6256.0	6441.4	6589.6	6749.3	6903.3	7045.9	7088.6
17.5°	5965.2	5993.7	6122.0	6344.4	6595.3	6766.4	6906.2	7037.3	7171.3	7308.2	7328.2
20°	6219.0	6247.5	6418.6	6686.6	6983.1	7188.4	7282.5	7313.9	7379.5	7510.7	7527.8
22.5°	6564.0	6592.5	6783.5	7085.8	7416.6	7639.0	7678.9	7604.7	7587.6	7690.3	7701.7
25°	6954.6	6980.3	7199.8	7524.9	7867.1	8109.5	8098.0	7915.6	7812.9	7875.6	7892.7
27.5°	7393.7	7430.8	7653.2	7989.7	8360.4	8574.2	8540.0	8274.8	8055.3	8043.9	8049.6
30°	7955.5	7995.4	8206.4	8528.6	8893.6	9090.3	9019.1	8662.6	8323.3	8209.3	8209.3
32.5°	8548.6	8648.4	8862.2	9198.7	9483.8	9626.4	9518.1	9090.3	8639.8	8480.1	8471.6
35°	9321.3	9375.5	9586.5	9914.4	10128.3	10239.5	10031.3	9572.2	9053.3	8865.1	8839.4
37.5°	10076.9	10122.6	10367.8	10681.4	10940.9	10935.2	10652.9	10145.4	9566.5	9355.5	9338.4
40°	10849.7	10898.1	11177.6	11465.6	11725.1	11702.2	11360.1	10792.6	10176.7	9940.1	9985.7
42.5°	11519.8	11573.9	11890.4	12301.0	12534.9	12529.2	12132.8	11494.1	10852.5	10641.5	10681.4
45°	12130.0	12178.4	12546.3	13016.8	13358.9	13401.7	12968.3	12292.5	11633.8	11362.9	11374.3
47.5°	12560.5	12651.8	13036.7	13575.6	14040.4	14191.5	13766.7	13105.1	12346.7	12064.4	12081.5
50°	12888.4	12945.5	13364.6	13977.7	14565.1	14878.7	14536.6	13857.9	13059.5	12760.1	12800.0
52.5°	12928.4	12996.8	13453.0	14160.2	14913.0	15389.1	15220.9	14593.6	13786.6	13478.7	13564.2
55°	12603.3	12643.2	13187.8	14046.1	15049.8	15768.4	15811.1	15277.9	14479.5	14245.7	14302.7
57.5°	11676.6	11779.2	12469.3	13512.9	14861.6	15970.8	16253.1	15899.5	15181.0	14950.0	15041.3
60°	10156.8	10259.4	10952.3	12275.4	14151.6	15876.7	16618.1	16449.9	15816.9	15631.5	15680.0
62.5°	7958.3	7949.8	8808.1	10430.5	12740.2	15414.8	16889.0	16980.2	16444.2	16210.3	16284.5
65°	5158.2	5183.9	6013.7	7761.6	10610.2	14240.0	16948.9	17656.0	17060.1	16706.5	16760.7
66°	4148.8	4225.8	4930.1	6541.2	9523.8	13470.1	16769.2	17855.6	17248.3	16820.6	16846.2
67.5°	3062.4	3048.2	3627.0	4870.2	7604.7	12007.3	16207.5	17981.1	17462.1	16923.2	16934.6
70°	1747.9	1745.1	1950.4	2674.6	4471.0	8454.5	13661.2	17379.4	17895.5	17293.9	17262.5
72.5°	1277.4	1268.9	1297.4	1477.0	2181.3	4268.6	9424.0	15189.5	17673.1	17234.0	17145.6
75°	1072.1	1066.4	1060.7	1083.5	1223.3	1933.3	5001.4	10926.7	15335.0	16176.1	16084.9
77.5°	875.4	875.4	878.2	872.5	878.2	1018.0	2073.0	5856.8	9338.4	10424.8	10678.6
80°	684.3	681.5	730.0	710.0	664.4	653.0	918.2	1884.8	3099.5	3082.4	2543.5
82.5°	504.7	470.5	556.0	541.8	490.4	416.3	536.1	804.1	1035.1	672.9	499.0
85°	319.4	316.5	393.5	359.3	299.4	196.7	256.6	345.0	427.7	259.5	211.0
87.5°	57.0	54.2	125.5	91.2	91.2	57.0	71.3	94.1	139.7	96.9	71.3
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)