

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: P534417

Luminaire Tested: **GALN-SA9D-830-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36014 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): 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

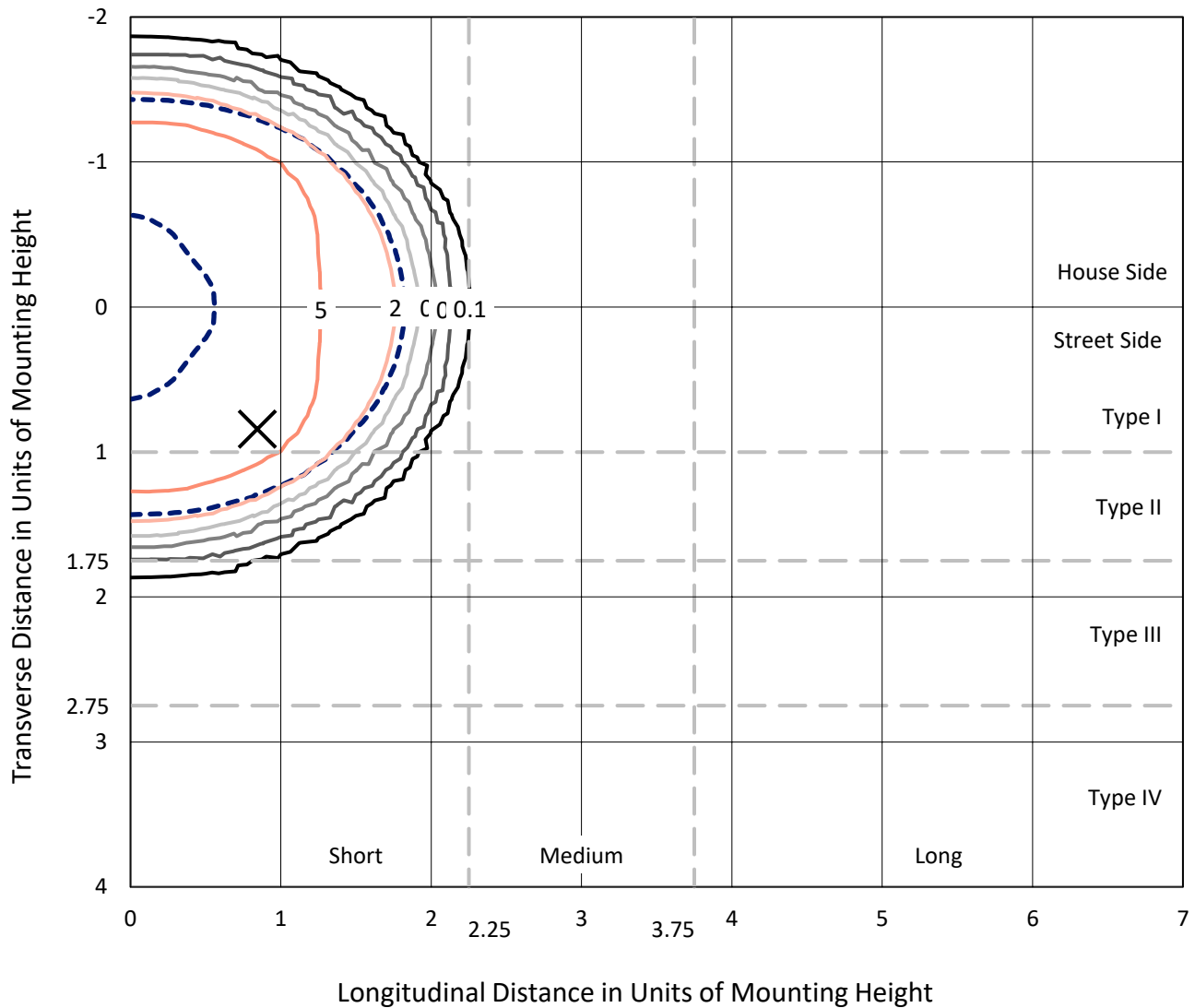


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

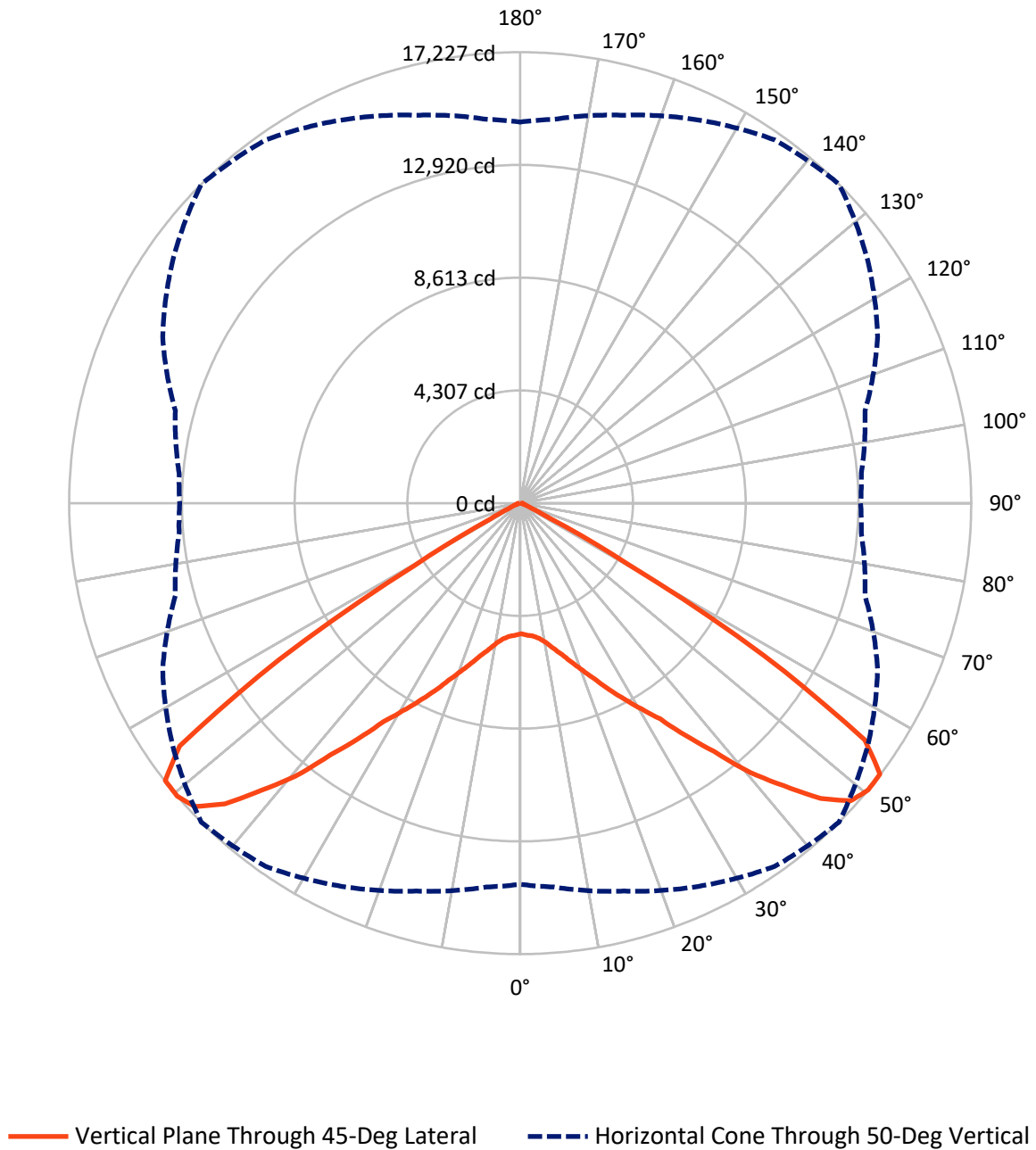


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18007.0	0.0	18007.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18007.0	0.0	18007.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36014.0	0.0	36014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.7	1.4
10°-20°	1712.0	4.8
20°-30°	3496.6	9.7
30°-40°	6667.9	18.5
40°-50°	11236.5	31.2
50°-60°	10716.0	29.8
60°-70°	1495.9	4.2
70°-80°	143.1	0.4
80°-90°	49.4	0.1
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°	36014.0	100.0
0°-180°	36014.0	100.0

Coefficient of Utilization



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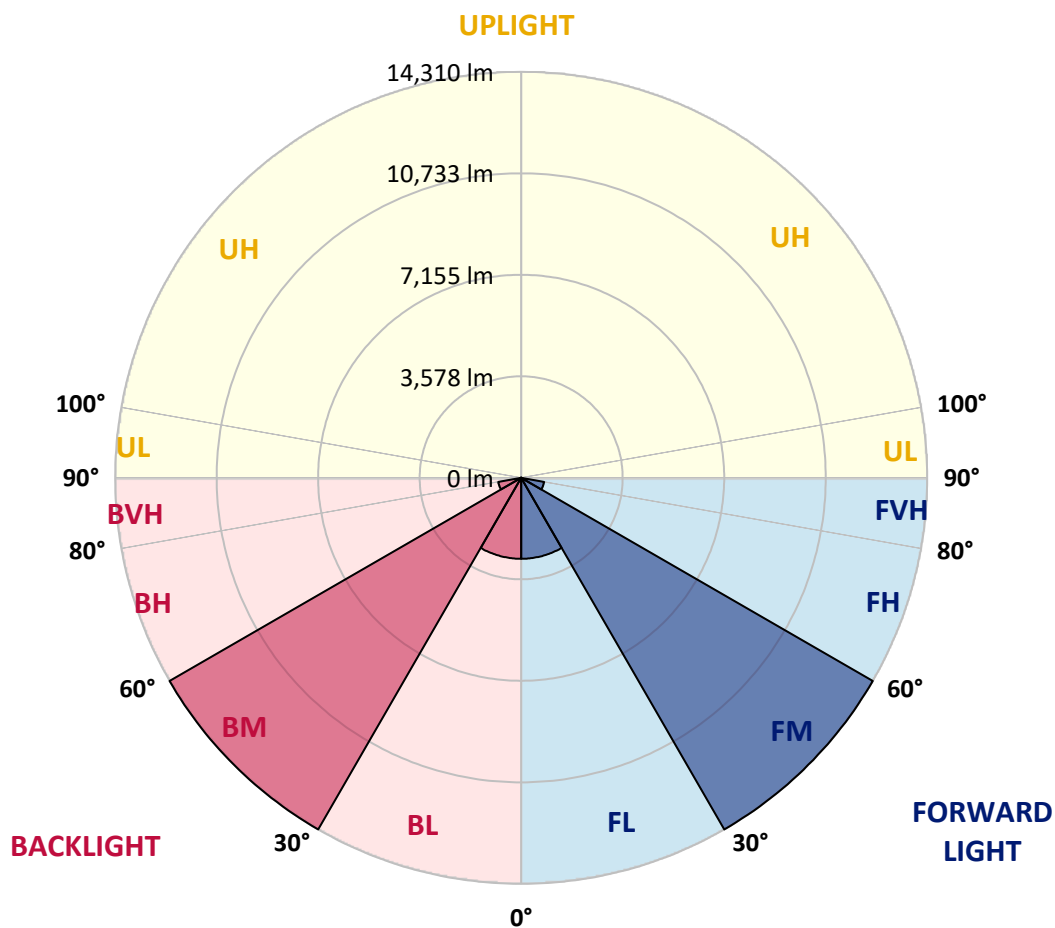
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2852.6	7.9			
FM	(30°-60°)	14310.2	39.7			
FH	(60°-80°)	819.5	2.3			G1/1800
FVH	(80°-90°)	24.7	0.1			G1/100
BL	(0°-30°)	2852.6	7.9	B4/5000		
BM	(30°-60°)	14310.2	39.7	B5		
BH	(60°-80°)	819.5	2.3	B2/1000		G1/1800
BVH	(80°-90°)	24.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4992.9	4992.9	4992.9	4992.9	4992.9	4992.9	4992.9	4992.9	4992.9	4992.9	4992.9
2.5°	4974.8	4974.8	4968.7	5017.2	4992.9	5047.5	5041.4	5059.6	5077.8	5071.7	5120.2
5°	4932.4	4926.3	4926.3	4980.8	5035.4	5096.0	5150.5	5186.8	5247.4	5247.4	5308.0
7.5°	4974.8	4944.5	4986.9	5011.1	5114.1	5217.1	5308.0	5380.7	5520.1	5568.6	5550.4
10°	4986.9	5023.2	5053.5	5126.3	5253.5	5411.0	5489.8	5671.6	5829.1	5938.2	5962.4
12.5°	5065.7	5120.2	5205.0	5380.7	5495.9	5701.9	5811.0	5986.7	6204.8	6326.0	6410.8
15°	5217.1	5235.3	5344.4	5568.6	5817.0	6004.9	6174.5	6301.8	6513.9	6653.2	6659.3
17.5°	5411.0	5489.8	5641.3	5853.4	6113.9	6392.7	6526.0	6665.3	6744.1	6932.0	6974.4
20°	5798.8	5811.0	5956.4	6235.1	6562.3	6816.8	6913.8	6986.5	6956.2	7150.1	7186.4
22.5°	6162.4	6174.5	6356.3	6732.0	7083.4	7301.6	7344.0	7301.6	7210.7	7350.1	7362.2
25°	6532.0	6641.1	6774.4	7150.1	7586.4	7877.2	7883.3	7768.1	7580.3	7604.5	7665.1
27.5°	7107.7	7186.4	7325.8	7671.2	8149.9	8477.1	8422.6	8283.2	8040.8	8059.0	8040.8
30°	7780.3	7853.0	7968.1	8410.4	8761.9	9119.4	9198.2	9064.9	8701.3	8622.5	8713.4
32.5°	8592.2	8695.2	8907.3	9313.3	9610.2	9828.3	9882.9	9834.4	9495.1	9464.8	9525.4
35°	9579.9	9719.3	9913.2	10270.7	10513.1	10906.9	10906.9	10743.3	10434.3	10470.6	10464.6
37.5°	10622.1	10828.1	11131.1	11494.7	11821.9	12034.0	11967.3	11827.9	11518.9	11440.1	11518.9
40°	11931.0	12034.0	12415.7	12888.3	13288.3	13530.6	13245.8	12942.9	12203.6	12318.8	12530.8
42.5°	13124.7	13288.3	13579.1	14100.2	14554.7	14754.6	14415.3	13815.4	12924.7	12833.8	12991.4
45°	14142.6	14318.4	14700.1	15445.4	15924.1	16099.8	15348.5	14379.0	13361.0	13130.7	13197.4
47.5°	14821.3	14912.2	15445.4	16154.4	16590.6	16990.6	15912.0	14766.8	13567.0	13130.7	13106.5
50°	14560.7	14718.3	15342.4	16148.3	16942.1	17226.9	16196.8	15063.7	13633.6	13076.2	13003.5
52.5°	12930.8	13203.4	13900.3	14984.9	16184.7	17202.6	16590.6	14966.7	13609.4	13130.7	13239.8
55°	8998.2	9004.3	9852.6	11452.3	13573.1	15972.6	16015.0	15075.8	13767.0	13470.0	13476.1
57.5°	3617.5	3799.2	4447.6	6053.3	8010.5	10967.5	13039.8	13985.1	13785.1	13712.4	13900.3
60°	915.0	921.0	1121.0	1708.8	2817.6	4702.1	6828.9	9240.6	10640.3	11119.0	11185.7
62.5°	466.6	472.6	521.1	605.9	769.5	1260.4	2242.0	3556.9	5059.6	5823.1	6023.0
65°	381.7	381.7	412.0	454.5	460.5	484.8	581.7	830.1	1205.8	1369.4	1387.6
67.5°	290.9	290.9	315.1	339.3	351.4	345.4	333.3	345.4	418.1	399.9	387.8
70°	181.8	187.8	200.0	224.2	236.3	242.4	248.4	260.6	296.9	309.0	296.9
72.5°	109.1	109.1	115.1	133.3	151.5	163.6	181.8	193.9	212.1	242.4	236.3
75°	48.5	48.5	60.6	78.8	97.0	115.1	133.3	151.5	163.6	181.8	187.8
77.5°	12.1	18.2	30.3	54.5	72.7	97.0	121.2	139.4	151.5	151.5	145.4
80°	6.1	6.1	24.2	42.4	78.8	103.0	133.3	145.4	163.6	151.5	133.3
82.5°	6.1	6.1	24.2	42.4	72.7	103.0	139.4	157.5	169.7	151.5	127.2
85°	0.0	6.1	18.2	36.4	60.6	72.7	60.6	42.4	24.2	24.2	18.2
87.5°	0.0	0.0	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)