

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: P651558

Luminaire Tested: **GALN-SA8D-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651558
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-SA8D-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54202.4 lumens
Efficiency: N/A
Efficacy: 109.9 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

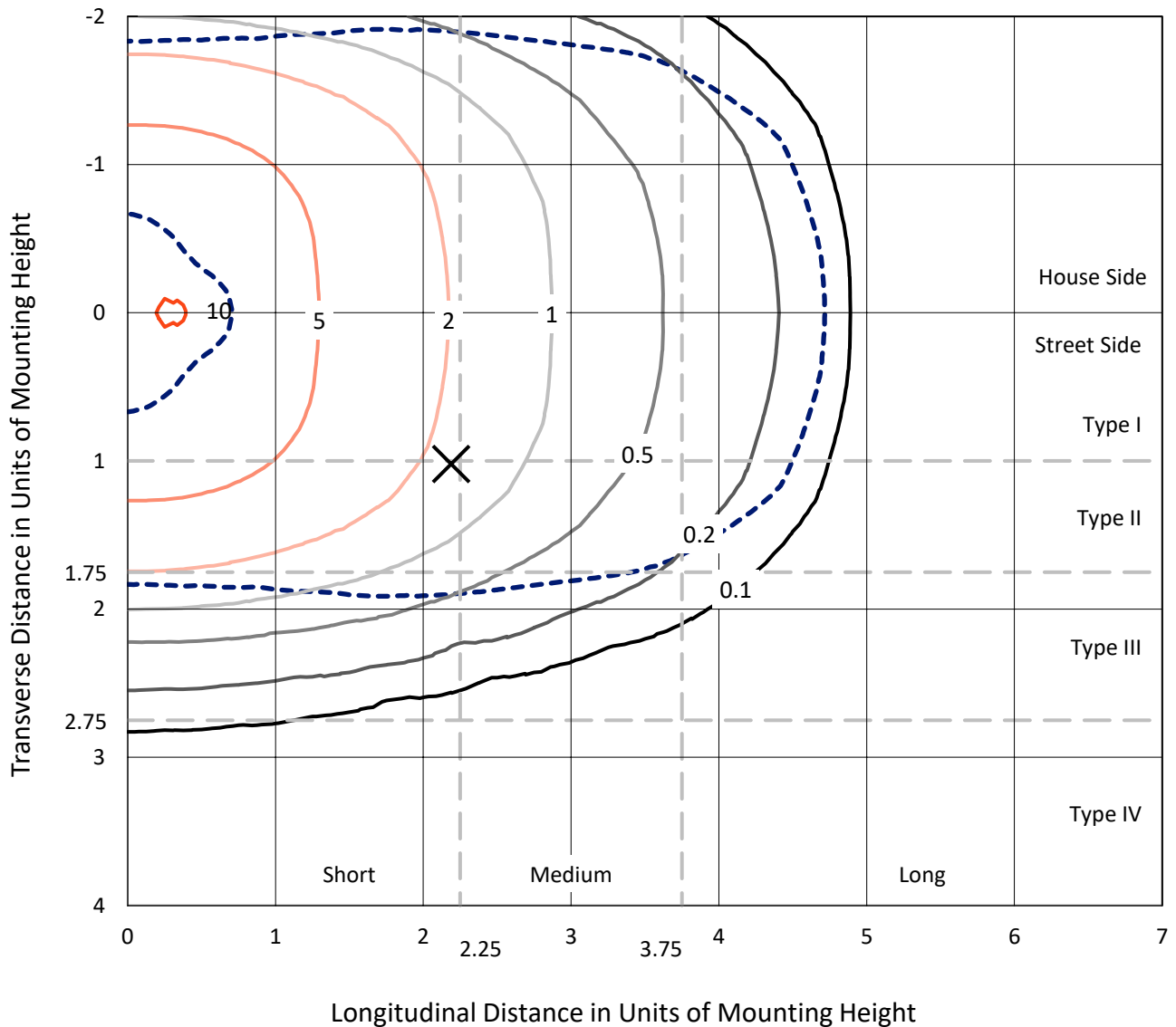
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

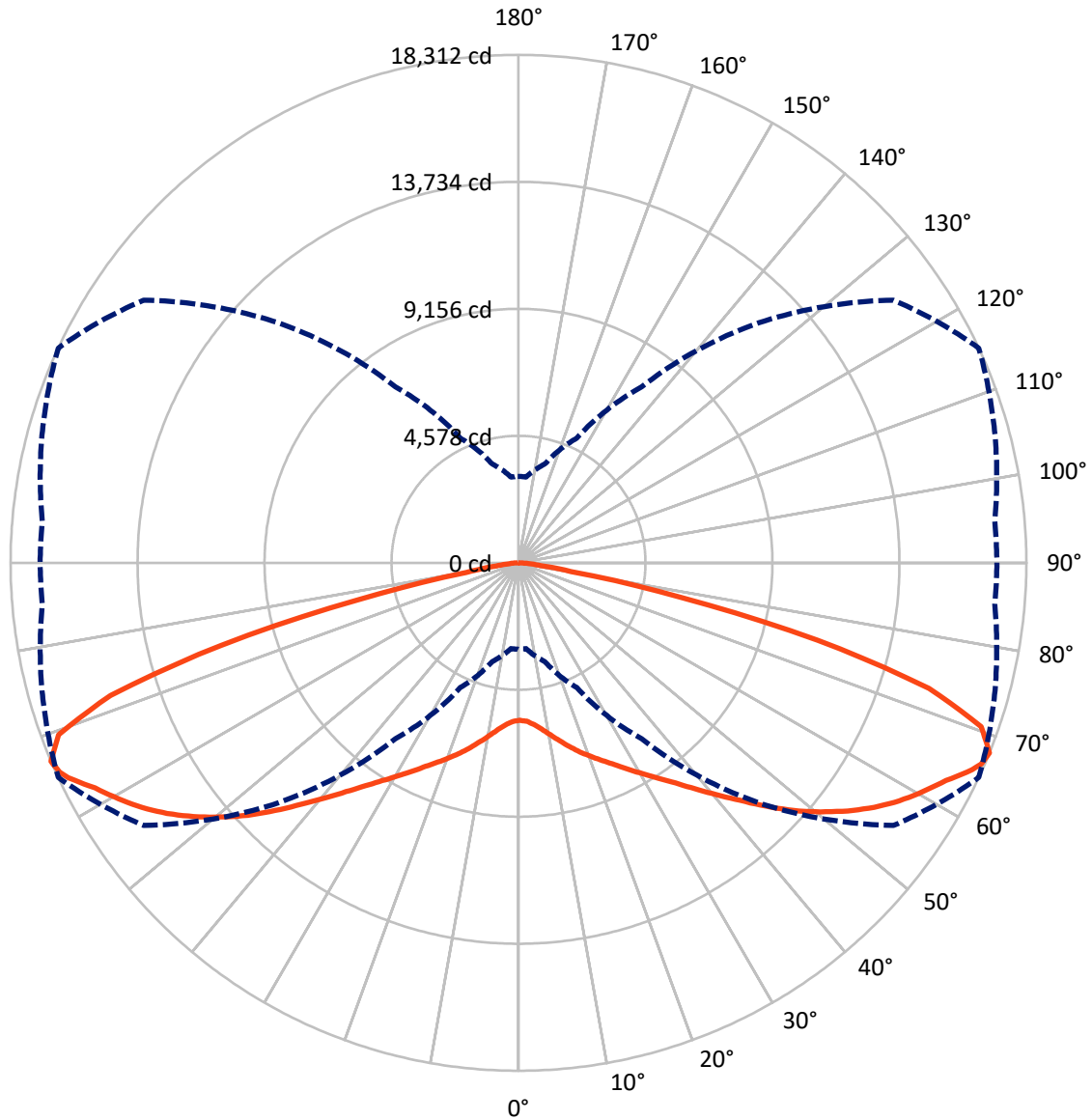
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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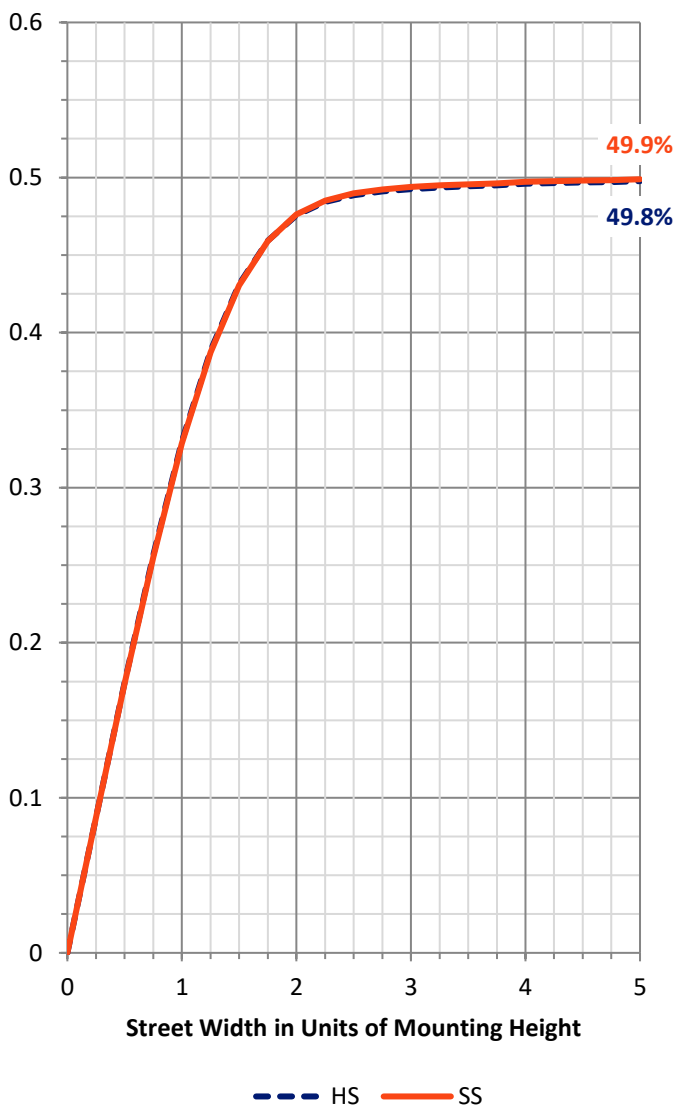
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27101.2	0.0	27101.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27101.2	0.0	27101.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	54202.4	0.0	54202.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	1.0
10°-20°	1874.0	3.5
20°-30°	3665.7	6.8
30°-40°	6234.9	11.5
40°-50°	9868.0	18.2
50°-60°	13084.8	24.1
60°-70°	12343.0	22.8
70°-80°	6101.8	11.3
80°-90°	470.2	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°	54202.4	100.0
0°-180°	54202.4	100.0

Coefficient of Utilization



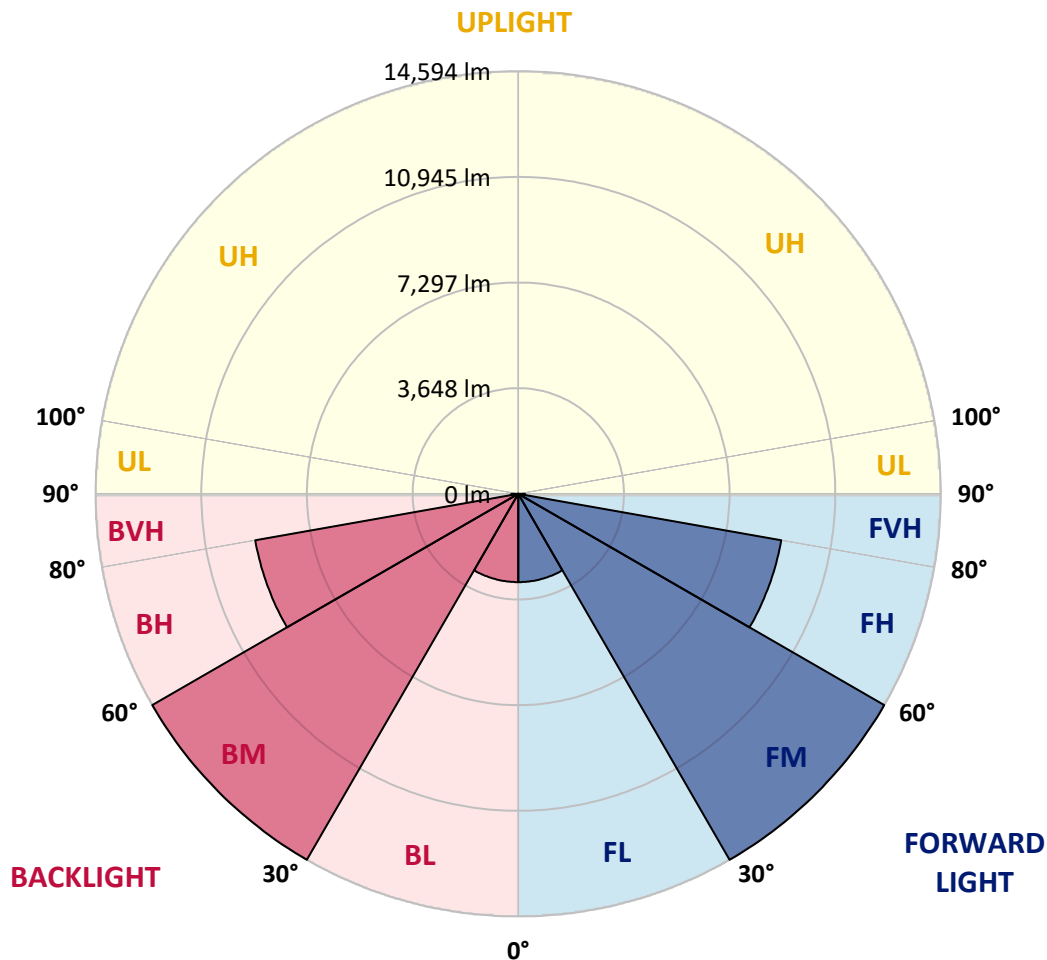
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3049.8	5.6			
FM	(30°-60°)	14593.9	26.9			
FH	(60°-80°)	9222.4	17.0			G4/12000
FVH	(80°-90°)	235.1	0.4			G3/500
BL	(0°-30°)	3049.8	5.6	B4/5000		
BM	(30°-60°)	14593.9	26.9	B5		
BH	(60°-80°)	9222.4	17.0	B5		G5
BVH	(80°-90°)	235.1	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°	5677.3	5677.3	5677.3	5677.3	5677.3	5677.3	5677.3	5677.3	5677.3	5677.3	5677.3
2.5°	5648.2	5654.0	5659.8	5668.5	5680.1	5697.5	5709.2	5717.9	5741.1	5744.0	5741.1
5°	5627.9	5633.7	5648.2	5674.3	5712.1	5764.4	5805.0	5854.4	5892.1	5918.3	5912.5
7.5°	5624.9	5636.6	5659.8	5715.0	5787.6	5877.6	5970.5	6054.8	6127.4	6185.4	6176.7
10°	5671.5	5685.9	5723.7	5805.0	5918.3	6048.9	6179.6	6304.5	6409.0	6484.5	6510.7
12.5°	5749.8	5761.4	5831.2	5953.1	6115.8	6278.3	6426.4	6580.3	6725.6	6853.3	6853.3
15°	5886.3	5906.7	5993.7	6170.9	6371.2	6560.1	6711.0	6873.7	7030.5	7175.7	7219.2
17.5°	6075.0	6104.1	6234.8	6461.3	6716.8	6891.1	7033.4	7166.9	7303.4	7442.8	7463.1
20°	6333.5	6362.6	6536.8	6809.7	7111.7	7320.9	7416.7	7448.7	7515.4	7649.0	7666.5
22.5°	6684.9	6714.0	6908.5	7216.3	7553.2	7779.7	7820.4	7744.9	7727.4	7832.0	7843.6
25°	7082.7	7108.9	7332.5	7663.5	8012.0	8258.9	8247.3	8061.4	7956.9	8020.7	8038.1
27.5°	7530.0	7567.7	7794.2	8136.8	8514.4	8732.2	8697.4	8427.2	8203.7	8192.0	8197.9
30°	8102.0	8142.6	8357.6	8685.8	9057.4	9257.8	9185.2	8822.2	8476.6	8360.5	8360.5
32.5°	8706.0	8807.7	9025.5	9368.2	9658.5	9803.7	9693.4	9257.8	8799.0	8636.4	8627.7
35°	9493.0	9548.2	9763.1	10097.0	10314.9	10428.1	10216.1	9748.5	9220.1	9028.4	9002.2
37.5°	10262.6	10309.1	10558.8	10878.2	11142.5	11136.7	10849.2	10332.3	9742.7	9527.9	9510.4
40°	11049.6	11098.9	11383.5	11676.8	11941.0	11917.8	11569.4	10991.4	10364.2	10123.2	10169.6
42.5°	11731.9	11787.1	12109.5	12527.6	12765.8	12760.0	12356.3	11705.8	11052.4	10837.5	10878.2
45°	12353.4	12402.8	12777.4	13256.5	13605.0	13648.6	13207.1	12519.0	11848.1	11572.2	11583.8
47.5°	12791.9	12884.9	13276.9	13825.7	14299.1	14453.0	14020.3	13346.6	12574.1	12286.6	12304.1
50°	13125.9	13183.9	13610.8	14235.2	14833.4	15152.8	14804.4	14113.2	13300.1	12995.2	13035.8
52.5°	13166.5	13236.2	13700.8	14421.0	15187.7	15672.6	15501.3	14862.4	14040.6	13727.0	13814.1
55°	12835.5	12876.1	13430.8	14304.9	15327.1	16058.9	16102.5	15559.3	14746.3	14508.2	14566.2
57.5°	11891.7	11996.2	12699.0	13761.9	15135.4	16265.0	16552.6	16192.4	15460.6	15225.5	15318.4
60°	10343.9	10448.4	11154.1	12501.5	14412.3	16169.2	16924.2	16752.9	16108.3	15919.5	15968.8
62.5°	8105.0	8096.2	8970.3	10622.7	12974.9	15698.8	17200.1	17293.1	16747.1	16509.0	16584.4
65°	5253.2	5279.4	6124.4	7904.6	10805.6	14502.4	17261.1	17981.3	17374.4	17014.3	17069.4
66°	4225.3	4303.6	5020.9	6661.6	9699.2	13718.3	17078.2	18184.5	17566.1	17130.4	17156.6
67.5°	3118.8	3104.3	3693.8	4960.0	7744.9	12228.6	16506.1	18312.4	17783.8	17234.9	17246.6
70°	1780.1	1777.2	1986.3	2723.9	4553.4	8610.2	13912.8	17699.6	18225.2	17612.5	17580.5
72.5°	1300.9	1292.3	1321.3	1504.2	2221.5	4347.2	9597.6	15469.4	17998.7	17551.5	17461.4
75°	1091.9	1086.1	1080.3	1103.5	1245.8	1968.9	5093.5	11127.9	15617.5	16474.1	16381.2
77.5°	891.5	891.5	894.4	888.6	894.4	1036.7	2111.2	5964.7	9510.4	10616.9	10875.3
80°	696.9	694.1	743.4	723.1	676.6	665.0	935.1	1919.5	3156.6	3139.2	2590.4
82.5°	514.0	479.1	566.2	551.8	499.5	423.9	546.0	818.9	1054.1	685.3	508.2
85°	325.2	322.4	400.7	365.9	304.9	200.4	261.4	351.4	435.6	264.2	214.9
87.5°	58.1	55.2	127.7	92.9	92.9	58.1	72.6	95.8	142.3	98.7	72.6
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)