

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: P459475

Luminaire Tested: **GALN-SA9B-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459475
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-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49579 lumens
Efficiency: N/A
Efficacy: 136.2 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 (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

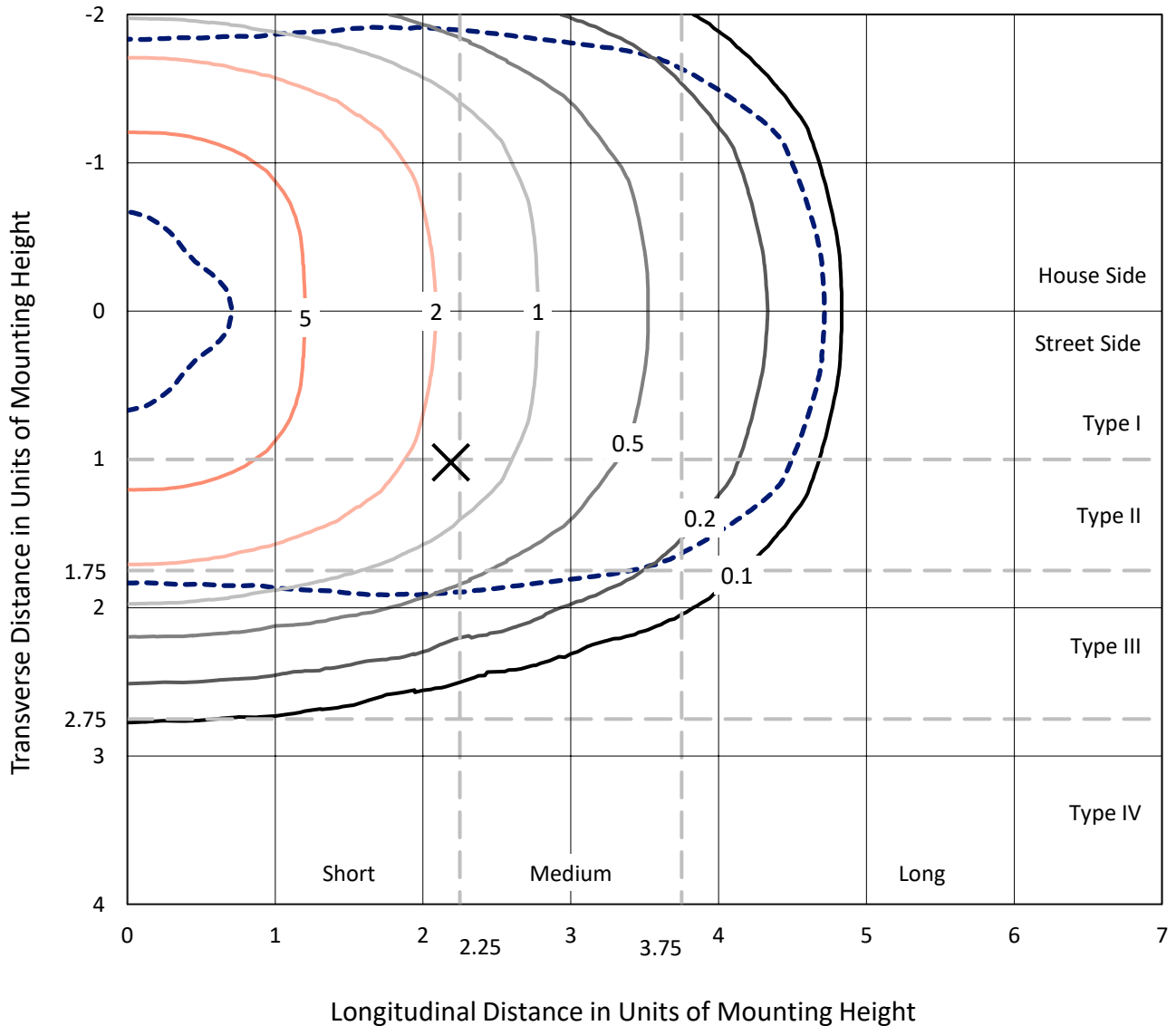




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Iso-Footcandle Lines of Horizontal Illumination

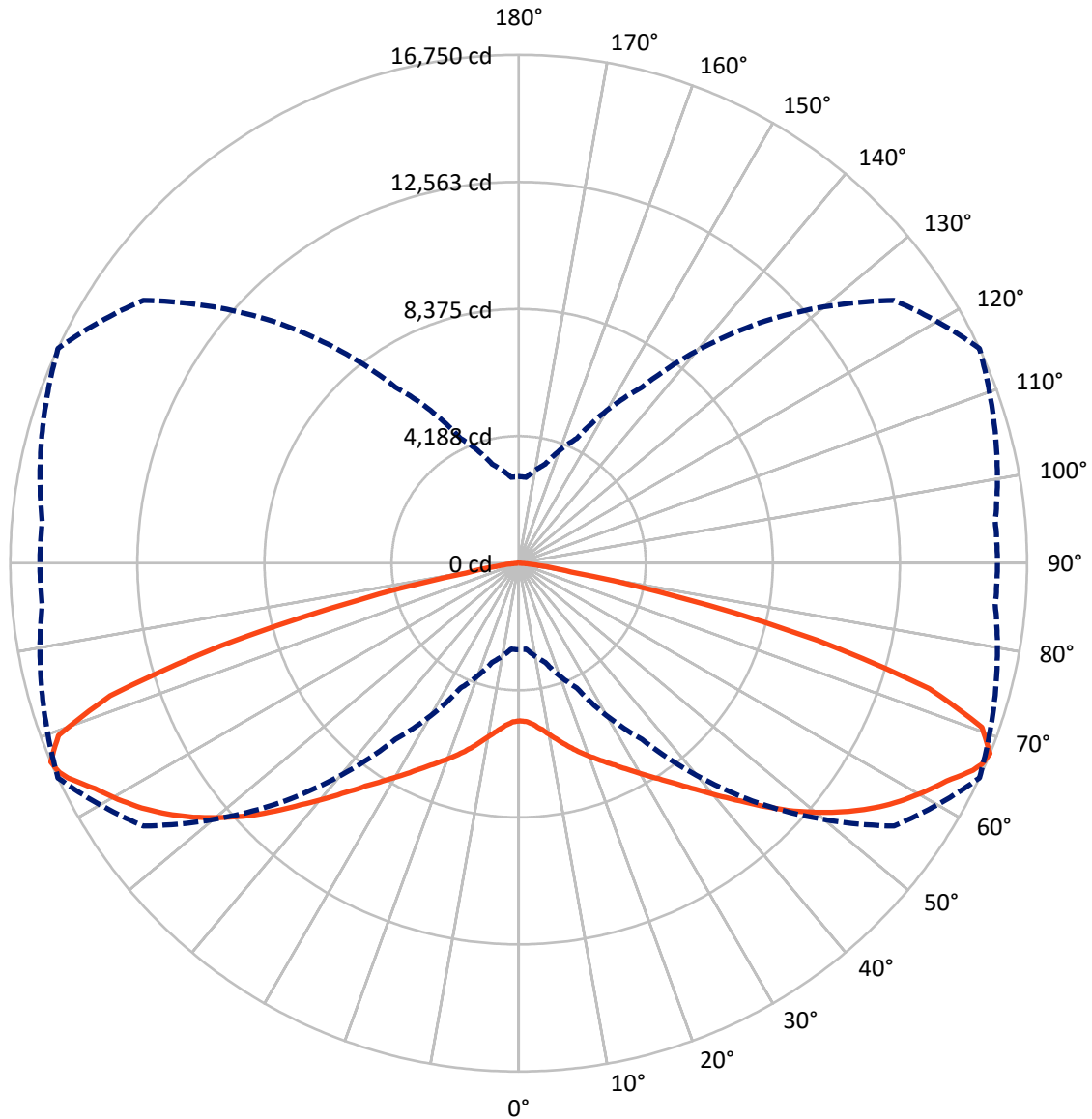
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	24789.5	0.0	24789.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24789.5	0.0	24789.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49579.0	0.0	49579.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.2	1.0
10°-20°	1714.2	3.5
20°-30°	3353.0	6.8
30°-40°	5703.1	11.5
40°-50°	9026.3	18.2
50°-60°	11968.7	24.1
60°-70°	11290.1	22.8
70°-80°	5581.3	11.3
80°-90°	430.1	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°	49579.0	100.0
0°-180°	49579.0	100.0



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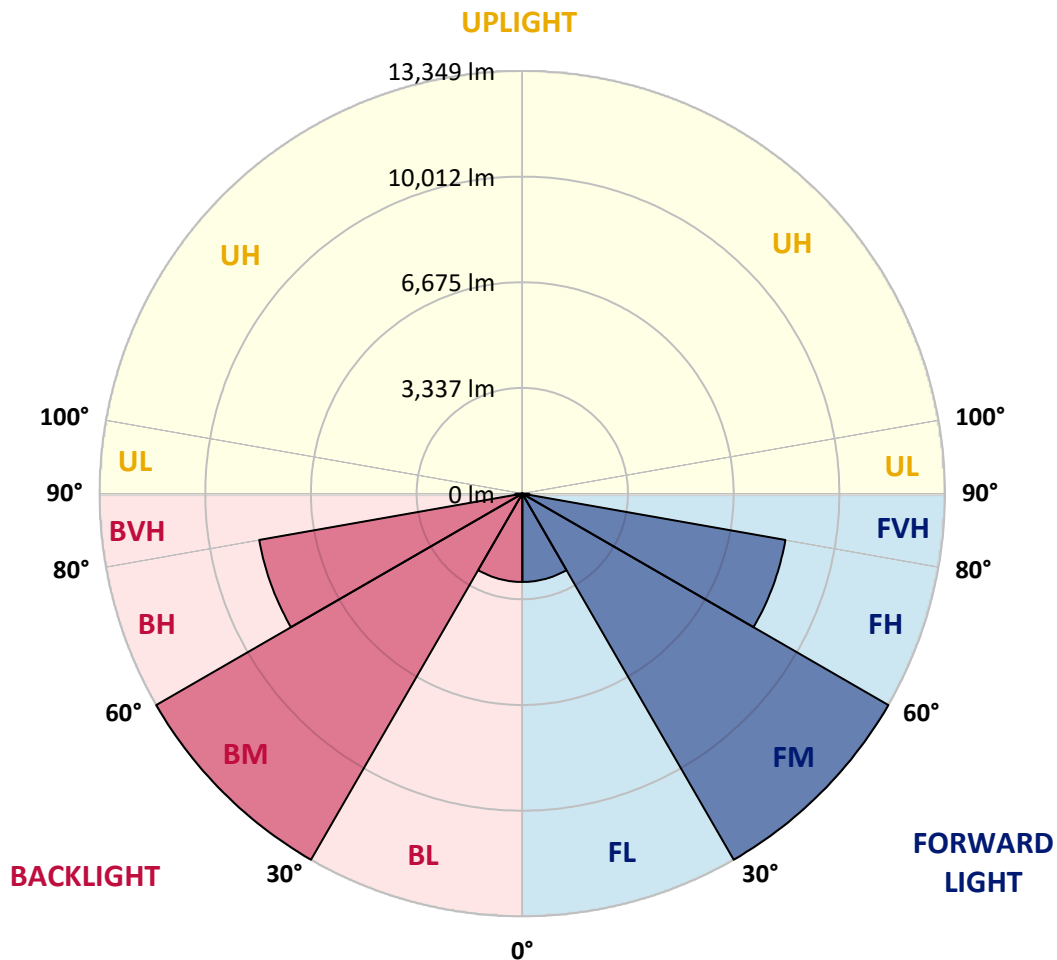
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2789.7	5.6			
FM	(30°-60°)	13349.0	26.9			
FH	(60°-80°)	8435.7	17.0			G4/12000
FVH	(80°-90°)	215.1	0.4			G2/225
BL	(0°-30°)	2789.7	5.6	B4/5000		
BM	(30°-60°)	13349.0	26.9	B5		
BH	(60°-80°)	8435.7	17.0	B5		G5
BVH	(80°-90°)	215.1	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°	5193.0	5193.0	5193.0	5193.0	5193.0	5193.0	5193.0	5193.0	5193.0	5193.0	5193.0
2.5°	5166.4	5171.7	5177.0	5185.0	5195.6	5211.6	5222.2	5230.2	5251.4	5254.1	5251.4
5°	5147.8	5153.1	5166.4	5190.3	5224.8	5272.7	5309.8	5355.0	5389.5	5413.4	5408.1
7.5°	5145.2	5155.8	5177.0	5227.5	5293.9	5376.2	5461.2	5538.3	5604.7	5657.8	5649.8
10°	5187.7	5200.9	5235.5	5309.8	5413.4	5533.0	5652.5	5766.7	5862.3	5931.4	5955.3
12.5°	5259.4	5270.0	5333.7	5445.3	5594.1	5742.8	5878.3	6019.1	6151.9	6268.7	6268.7
15°	5384.2	5402.8	5482.5	5644.5	5827.8	6000.5	6138.6	6287.3	6430.8	6563.6	6603.4
17.5°	5556.9	5583.4	5703.0	5910.1	6143.9	6303.3	6433.4	6555.6	6680.5	6808.0	6826.6
20°	5793.3	5819.8	5979.2	6228.9	6505.1	6696.4	6784.1	6813.3	6874.4	6996.6	7012.5
22.5°	6114.7	6141.2	6319.2	6600.8	6908.9	7116.1	7153.3	7084.2	7068.3	7163.9	7174.5
25°	6478.6	6502.5	6707.0	7009.8	7328.6	7554.4	7543.7	7373.7	7278.1	7336.6	7352.5
27.5°	6887.6	6922.2	7129.4	7442.8	7788.1	7987.3	7955.5	7708.4	7503.9	7493.3	7498.6
30°	7410.9	7448.1	7644.7	7944.8	8284.8	8468.1	8401.7	8069.7	7753.6	7647.3	7647.3
32.5°	7963.4	8056.4	8255.6	8569.1	8834.7	8967.5	8866.6	8468.1	8048.4	7899.7	7891.7
35°	8683.3	8733.7	8930.3	9235.8	9435.0	9538.6	9344.7	8917.0	8433.6	8258.3	8234.4
37.5°	9387.2	9429.7	9658.1	9950.3	10192.0	10186.7	9923.7	9450.9	8911.7	8715.1	8699.2
40°	10107.0	10152.2	10412.5	10680.8	10922.5	10901.2	10582.5	10053.9	9480.1	9259.7	9302.2
42.5°	10731.2	10781.7	11076.5	11459.0	11676.9	11671.5	11302.3	10707.3	10109.7	9913.1	9950.3
45°	11299.7	11344.8	11687.5	12125.8	12444.5	12484.4	12080.6	11451.1	10837.5	10585.1	10595.8
47.5°	11700.8	11785.8	12144.4	12646.4	13079.4	13220.1	12824.4	12208.1	11501.5	11238.6	11254.5
50°	12006.2	12059.4	12449.8	13020.9	13568.1	13860.3	13541.5	12909.4	12165.6	11886.7	11923.9
52.5°	12043.4	12107.2	12532.2	13190.9	13892.2	14335.8	14179.0	13594.7	12843.0	12556.1	12635.8
55°	11740.6	11777.8	12285.1	13084.7	14019.7	14689.0	14728.9	14232.2	13488.4	13270.6	13323.7
57.5°	10877.3	10973.0	11615.8	12588.0	13844.4	14877.6	15140.6	14811.2	14141.9	13926.7	14011.7
60°	9461.6	9557.2	10202.6	11435.1	13183.0	14790.0	15480.6	15323.9	14734.2	14561.5	14606.7
62.5°	7413.6	7405.6	8205.1	9716.6	11868.1	14359.7	15733.0	15818.0	15318.6	15100.8	15169.8
65°	4805.2	4829.1	5602.0	7230.3	9883.9	13265.3	15788.7	16447.5	15892.3	15563.0	15613.4
66°	3864.8	3936.6	4592.7	6093.4	8871.9	12548.1	15621.4	16633.4	16067.6	15669.2	15693.1
67.5°	2852.8	2839.5	3378.7	4536.9	7084.2	11185.5	15098.1	16750.3	16266.9	15764.8	15775.5
70°	1628.3	1625.6	1816.9	2491.6	4165.0	7875.8	12726.1	16189.8	16670.6	16110.1	16080.9
72.5°	1190.0	1182.0	1208.6	1375.9	2032.0	3976.4	8778.9	14149.8	16463.4	16054.4	15972.0
75°	998.7	993.4	988.1	1009.4	1139.5	1800.9	4659.1	10178.7	14285.3	15068.9	14983.9
77.5°	815.5	815.5	818.1	812.8	818.1	948.3	1931.1	5455.9	8699.2	9711.2	9947.6
80°	637.5	634.8	680.0	661.4	618.9	608.3	855.3	1755.8	2887.3	2871.4	2369.4
82.5°	470.2	438.3	518.0	504.7	456.9	387.8	499.4	749.1	964.2	626.9	464.8
85°	297.5	294.8	366.6	334.7	278.9	183.3	239.1	321.4	398.4	241.7	196.6
87.5°	53.1	50.5	116.9	85.0	85.0	53.1	66.4	87.7	130.2	90.3	66.4
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)