

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: P459472

Luminaire Tested: **GALN-SA9B-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50293 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

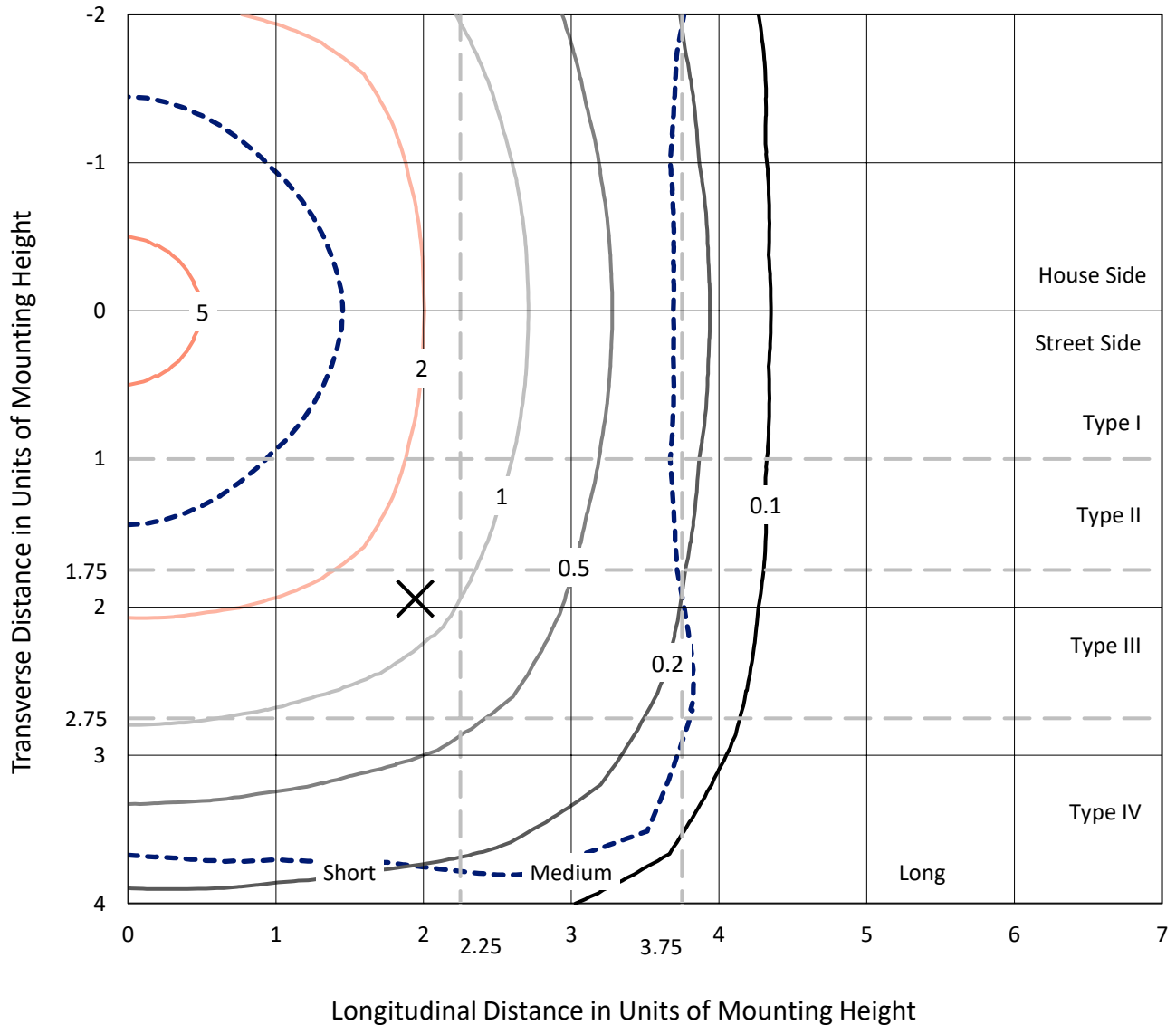
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

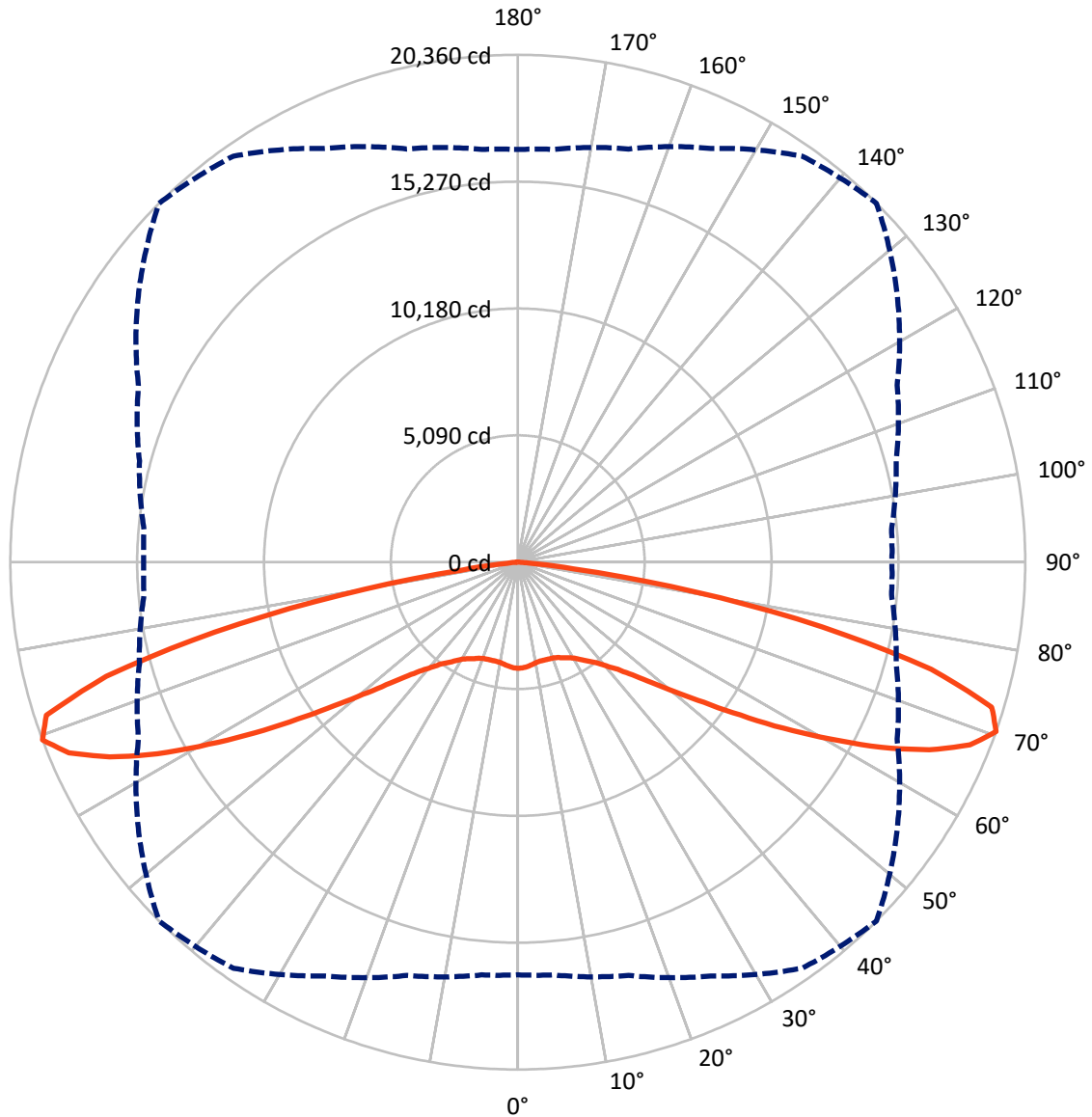
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25146.5	0.0	25146.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25146.5	0.0	25146.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50293.0	0.0	50293.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	0.8
10°-20°	1165.7	2.3
20°-30°	1986.1	3.9
30°-40°	3078.5	6.1
40°-50°	5181.6	10.3
50°-60°	9427.6	18.7
60°-70°	15960.7	31.7
70°-80°	12354.2	24.6
80°-90°	740.3	1.5
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°	50293.0	100.0
0°-180°	50293.0	100.0



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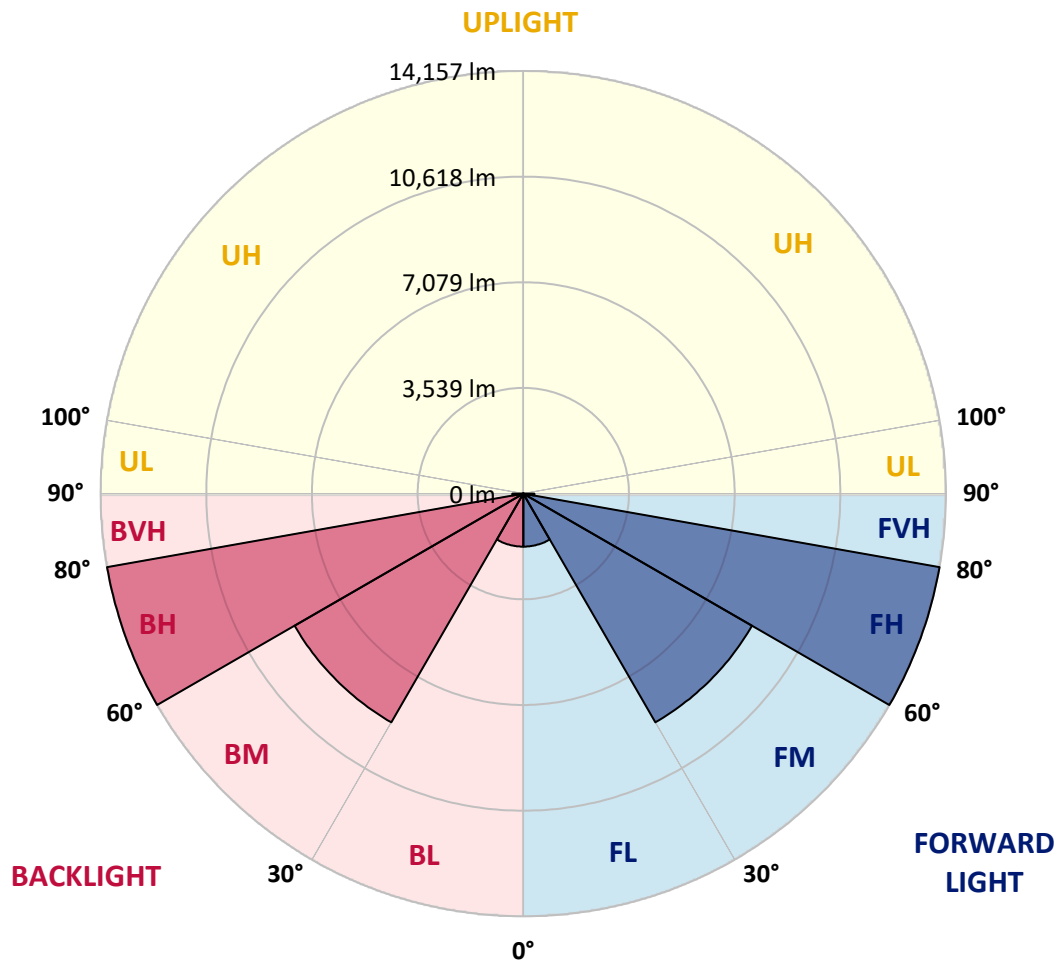
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.0	3.5			
FM (30°-60°)	8843.8	17.6			
FH (60°-80°)	14157.5	28.1			G5
FVH (80°-90°)	370.1	0.7			G3/500
BL (0°-30°)	1775.0	3.5	B3/2500		
BM (30°-60°)	8843.8	17.6	B5		
BH (60°-80°)	14157.5	28.1	B5		G5
BVH (80°-90°)	370.1	0.7			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9	4257.9
2.5°	4247.3	4249.9	4249.9	4244.6	4242.0	4242.0	4239.3	4239.3	4247.3	4249.9	4252.6
5°	4210.1	4210.1	4210.1	4207.5	4202.1	4202.1	4196.8	4196.8	4199.5	4207.5	4202.1
7.5°	4159.6	4165.0	4165.0	4154.3	4146.4	4146.4	4143.7	4146.4	4149.0	4157.0	4154.3
10°	4143.7	4146.4	4133.1	4114.5	4101.2	4093.2	4095.9	4101.2	4114.5	4119.8	4122.5
12.5°	4154.3	4154.3	4130.4	4103.9	4080.0	4069.3	4066.7	4085.3	4109.2	4125.1	4130.4
15°	4167.6	4162.3	4133.1	4098.5	4074.6	4072.0	4069.3	4082.6	4117.1	4149.0	4151.7
17.5°	4175.6	4172.9	4135.7	4093.2	4080.0	4080.0	4077.3	4087.9	4125.1	4165.0	4167.6
20°	4202.1	4194.2	4151.7	4106.5	4095.9	4101.2	4093.2	4106.5	4146.4	4194.2	4204.8
22.5°	4255.3	4247.3	4204.8	4159.6	4154.3	4154.3	4151.7	4165.0	4207.5	4257.9	4265.9
25°	4319.0	4311.0	4271.2	4239.3	4244.6	4255.3	4249.9	4252.6	4287.1	4329.6	4342.9
27.5°	4404.0	4390.7	4356.2	4329.6	4345.6	4345.6	4345.6	4342.9	4364.2	4404.0	4417.3
30°	4507.6	4502.3	4465.1	4462.4	4475.7	4462.4	4462.4	4465.1	4467.8	4504.9	4518.2
32.5°	4643.1	4632.4	4613.9	4608.5	4645.7	4656.4	4619.2	4584.6	4603.2	4640.4	4648.4
35°	4866.2	4850.3	4823.7	4794.5	4823.7	4874.2	4794.5	4767.9	4815.7	4866.2	4871.5
37.5°	5169.0	5161.0	5118.5	5065.4	5062.8	5115.9	5033.5	5030.9	5121.2	5182.3	5190.3
40°	5548.8	5556.8	5503.7	5453.2	5426.7	5469.2	5405.4	5429.3	5517.0	5586.0	5580.7
42.5°	6082.7	6053.5	5971.2	5923.4	5894.1	5878.2	5862.3	5899.5	5997.7	6072.1	6130.6
45°	6707.0	6696.3	6592.7	6534.3	6470.5	6446.6	6441.3	6507.7	6627.3	6717.6	6725.5
47.5°	7413.5	7389.6	7323.2	7262.1	7238.2	7209.0	7182.4	7232.9	7352.4	7416.2	7434.8
50°	8141.3	8146.6	8146.6	8136.0	8159.9	8165.2	8093.5	8112.1	8178.5	8173.2	8167.9
52.5°	8972.7	9001.9	9140.0	9153.3	9267.5	9344.6	9214.4	9137.4	9113.5	8970.1	8980.7
55°	9950.2	9976.8	10183.9	10391.1	10699.2	10829.4	10555.8	10316.8	10146.8	9928.9	9939.6
57.5°	11169.4	11182.7	11379.2	11777.7	12266.4	12571.9	12091.1	11618.3	11273.0	11065.8	10983.5
60°	12481.6	12494.9	12781.7	13267.8	14027.5	14399.4	13804.4	13031.4	12595.8	12279.7	12300.9
62.5°	14056.7	14109.8	14367.5	15036.9	15958.6	16375.6	15586.7	14553.4	13963.7	13570.6	13586.6
65°	15743.4	15833.7	16115.3	16851.1	17701.0	18149.9	17183.1	15990.4	15257.3	14776.5	14827.0
67.5°	16837.8	16917.5	17323.9	18136.7	19196.5	19568.4	18319.9	16930.7	16014.3	15440.6	15334.3
70°	16558.9	16625.3	17167.1	18319.9	19889.8	20359.9	18590.9	16792.6	15714.2	15052.8	15010.3
72.5°	14617.2	14479.0	15270.6	16925.4	19098.2	19887.1	17738.2	15337.0	13979.7	13299.7	13220.0
75°	9687.2	9987.4	11156.1	13105.8	16157.8	17135.3	15140.4	12314.2	10606.3	10040.5	9952.9
77.5°	3237.9	3469.0	4507.6	7429.4	11015.3	12484.2	11031.3	8053.7	5697.6	4589.9	4611.2
80°	858.0	847.3	1097.0	2042.6	4759.9	7230.2	5540.9	2727.9	1492.8	1081.1	1025.3
82.5°	308.1	345.3	443.6	565.8	1261.7	2247.2	1585.8	765.0	560.5	414.4	401.1
85°	135.5	132.8	191.2	225.8	316.1	419.7	371.9	324.1	284.2	188.6	175.3
87.5°	29.2	29.2	45.2	34.5	55.8	55.8	69.1	82.3	85.0	55.8	45.2
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)