

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: P459007

Luminaire Tested: **GALN-SA5B-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27703 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

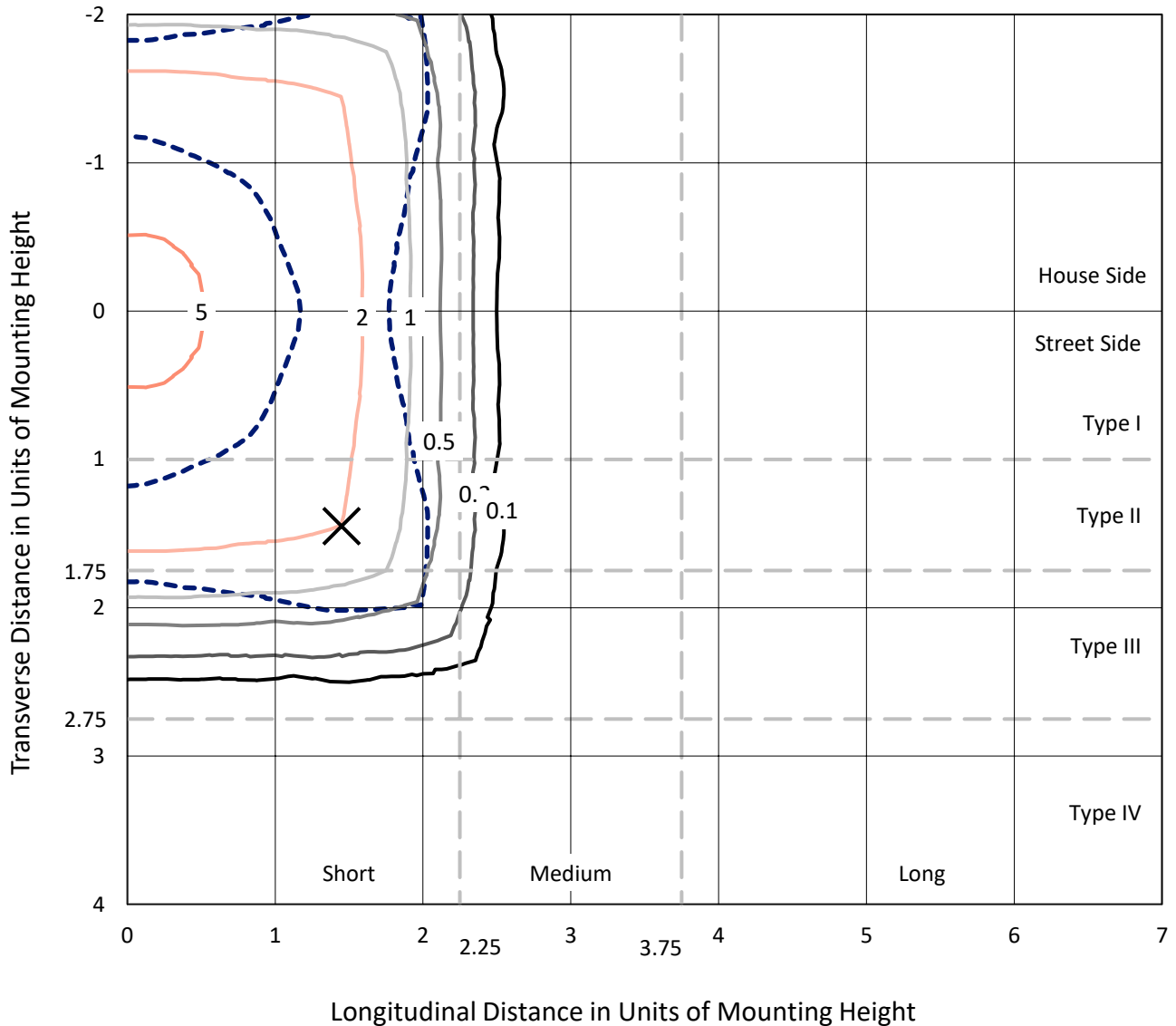
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

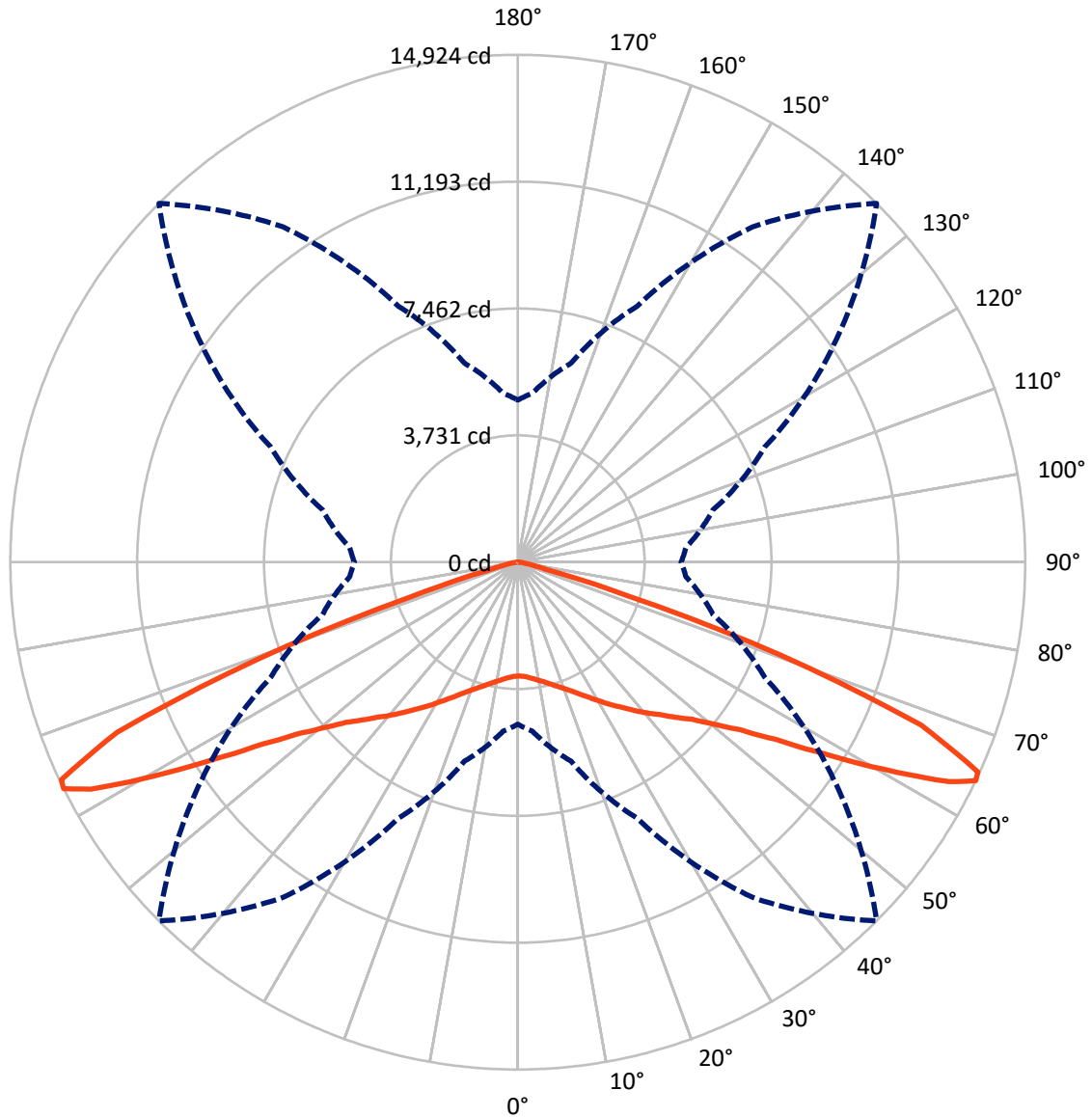
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13851.5	0.0	13851.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13851.5	0.0	13851.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27703.0	0.0	27703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.2
10°-20°	1061.1	3.8
20°-30°	2005.2	7.2
30°-40°	3320.8	12.0
40°-50°	5184.3	18.7
50°-60°	8014.7	28.9
60°-70°	6911.0	24.9
70°-80°	783.2	2.8
80°-90°	93.8	0.3
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°	27703.0	100.0
0°-180°	27703.0	100.0



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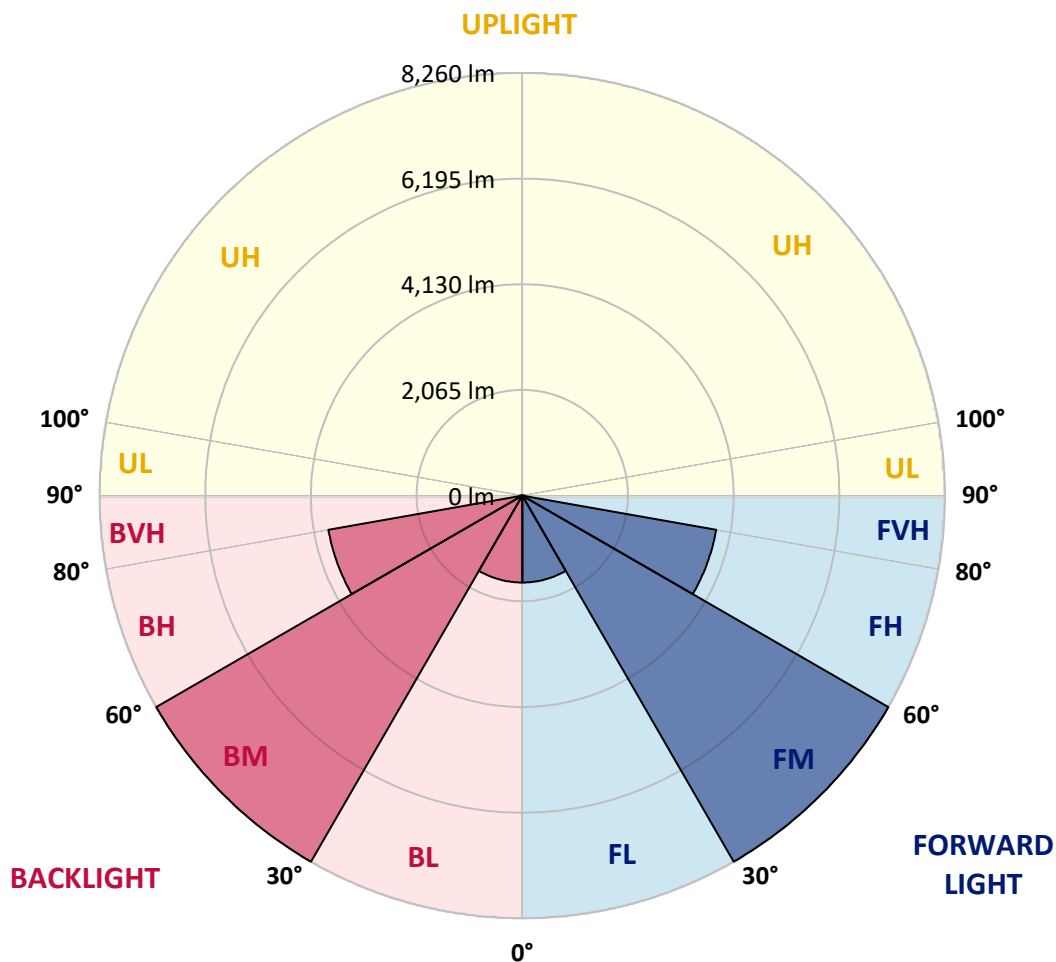
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.6	6.1			
FM (30°-60°)	8259.9	29.8			
FH (60°-80°)	3847.1	13.9			G2/5000
FVH (80°-90°)	46.9	0.2			G1/100
BL (0°-30°)	1697.6	6.1	B3/2500		
BM (30°-60°)	8259.9	29.8	B4/8500		
BH (60°-80°)	3847.1	13.9	B4/5000		G2/5000
BVH (80°-90°)	46.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3348.4	3348.4	3348.4	3348.4	3348.4	3348.4	3348.4	3348.4	3348.4	3348.4	3348.4
2.5°	3361.6	3368.9	3363.0	3361.6	3360.1	3360.1	3360.1	3361.6	3367.4	3371.9	3368.9
5°	3404.1	3410.0	3407.1	3405.6	3404.1	3405.6	3402.7	3401.2	3405.6	3405.6	3404.1
7.5°	3457.0	3464.3	3461.4	3464.3	3465.8	3467.2	3459.9	3454.0	3452.6	3457.0	3454.0
10°	3528.9	3534.7	3536.2	3537.7	3540.6	3539.1	3530.3	3520.0	3518.6	3517.1	3515.6
12.5°	3609.6	3614.0	3615.4	3621.3	3625.7	3627.2	3616.9	3608.1	3593.4	3596.3	3590.5
15°	3700.5	3709.3	3707.9	3716.7	3728.4	3731.3	3721.1	3706.4	3693.2	3685.9	3681.4
17.5°	3812.0	3817.9	3815.0	3823.8	3838.5	3845.8	3837.0	3817.9	3804.7	3788.6	3779.8
20°	3944.1	3954.4	3957.3	3957.3	3970.5	3977.8	3964.6	3958.8	3938.2	3926.5	3919.2
22.5°	4093.8	4098.2	4107.0	4115.8	4129.0	4126.0	4121.6	4112.8	4093.8	4083.5	4071.8
25°	4262.5	4266.9	4288.9	4308.0	4312.4	4309.5	4303.6	4299.2	4281.6	4258.1	4249.3
27.5°	4459.1	4467.9	4497.3	4514.9	4514.9	4516.3	4504.6	4519.3	4481.1	4453.2	4450.3
30°	4705.6	4711.5	4736.4	4754.0	4745.2	4737.9	4735.0	4749.6	4708.6	4658.7	4646.9
32.5°	4949.2	4969.7	4991.7	5029.9	4999.1	4985.9	4982.9	4993.2	4946.3	4890.5	4874.4
35°	5210.4	5225.0	5266.1	5298.4	5270.5	5239.7	5252.9	5285.2	5229.4	5154.6	5151.7
37.5°	5499.4	5512.6	5565.5	5599.2	5578.7	5525.8	5547.9	5586.0	5530.2	5437.8	5418.7
40°	5800.2	5828.1	5894.1	5929.4	5895.6	5825.2	5866.3	5907.3	5857.5	5750.3	5707.8
42.5°	6137.7	6181.7	6277.1	6294.7	6230.1	6134.8	6206.7	6272.7	6237.5	6114.2	6098.1
45°	6532.4	6558.8	6676.2	6714.4	6624.8	6506.0	6595.5	6715.8	6689.4	6547.1	6516.3
47.5°	6974.1	6999.0	7120.8	7178.0	7065.0	6905.1	7066.5	7223.5	7207.4	7054.8	7040.1
50°	7496.4	7502.3	7671.0	7735.6	7622.6	7484.7	7628.5	7823.6	7759.1	7563.9	7561.0
52.5°	8068.7	8076.0	8288.8	8413.5	8350.4	8194.9	8365.1	8483.9	8319.6	8064.3	8045.2
55°	8564.6	8601.3	8891.8	9223.4	9310.0	9197.0	9248.4	9192.6	8787.6	8429.6	8373.9
57.5°	8767.1	8839.0	9280.7	9899.9	10463.3	10630.6	10234.4	9703.2	8974.0	8467.8	8413.5
60°	8272.6	8350.4	9035.6	10210.9	11648.9	12375.2	11261.5	9789.8	8549.9	7838.3	7753.2
62.5°	6624.8	6646.9	7654.9	9478.7	12340.0	14221.0	11694.4	9051.8	7315.9	6349.0	6315.2
64°	4767.3	4993.2	6061.4	8310.8	12037.7	14923.9	11444.9	8017.3	5942.6	4963.9	4805.4
65°	3565.5	3627.2	4886.1	7097.3	11505.1	14871.1	10960.7	7028.4	4921.3	3798.8	3622.8
67.5°	1347.0	1354.3	1803.3	3537.7	8190.5	12794.8	8365.1	3823.8	2073.3	1499.6	1445.3
70°	559.0	569.3	661.8	1190.0	3520.0	8215.4	4033.6	1379.3	758.6	614.8	606.0
72.5°	409.4	415.2	443.1	528.2	1082.9	3373.3	1326.4	585.5	444.6	397.6	393.2
75°	321.3	324.3	344.8	388.8	504.8	934.7	551.7	402.0	338.9	305.2	302.3
77.5°	245.0	252.4	267.0	296.4	338.9	443.1	365.4	300.8	261.2	233.3	228.9
80°	168.7	177.5	205.4	217.2	227.4	287.6	249.4	227.4	204.0	170.2	159.9
82.5°	104.2	110.0	137.9	148.2	143.8	161.4	159.9	162.9	145.3	105.6	98.3
85°	54.3	57.2	74.8	77.8	71.9	66.0	82.2	95.4	89.5	60.2	58.7
87.5°	11.7	13.2	16.1	14.7	16.1	16.1	20.5	30.8	32.3	20.5	19.1
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)