

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: P459356

Luminaire Tested: **GALN-SA8B-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459356
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-SA8B-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 44798 lumens
Efficiency: N/A
Efficacy: 137.8 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

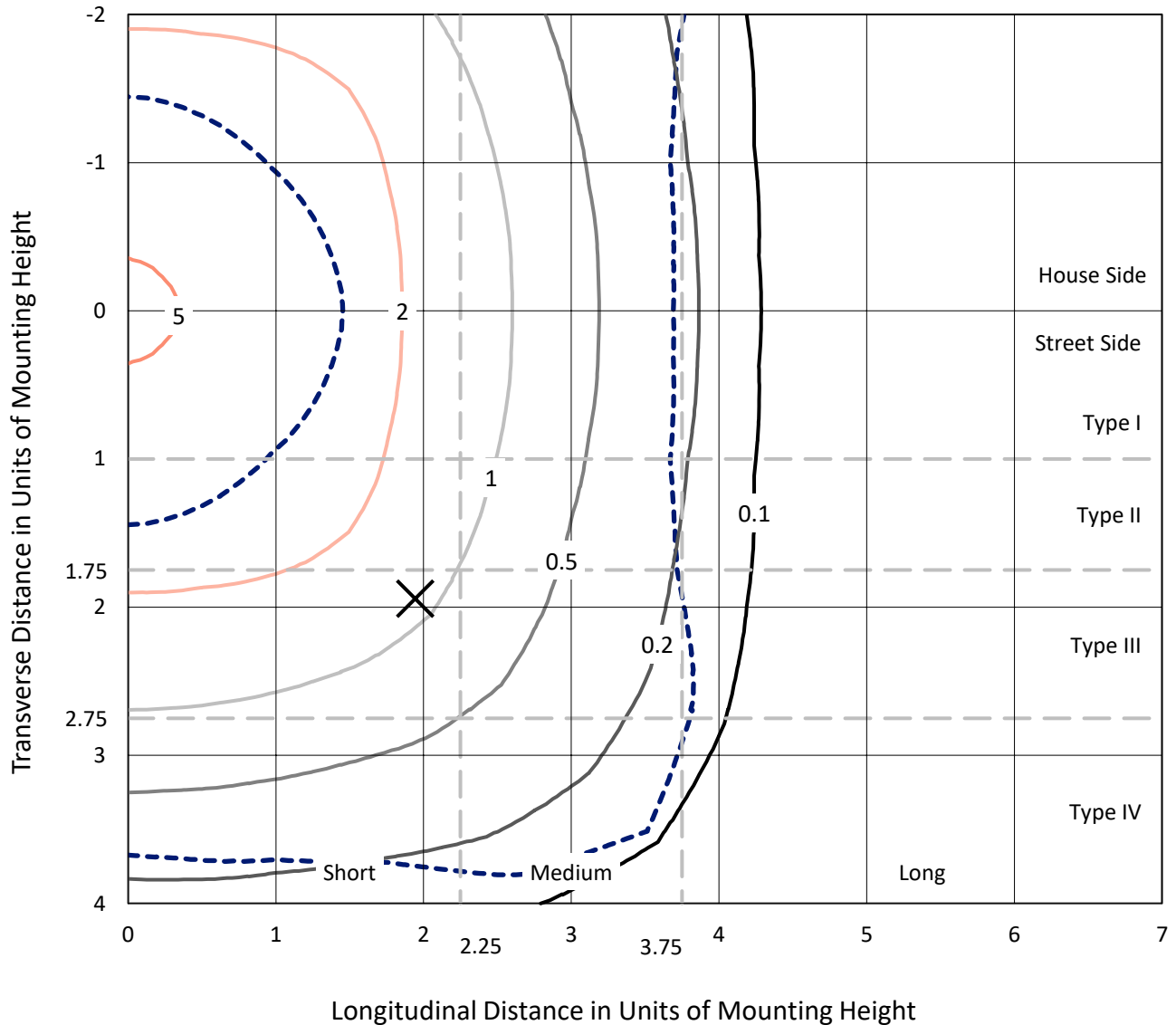
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

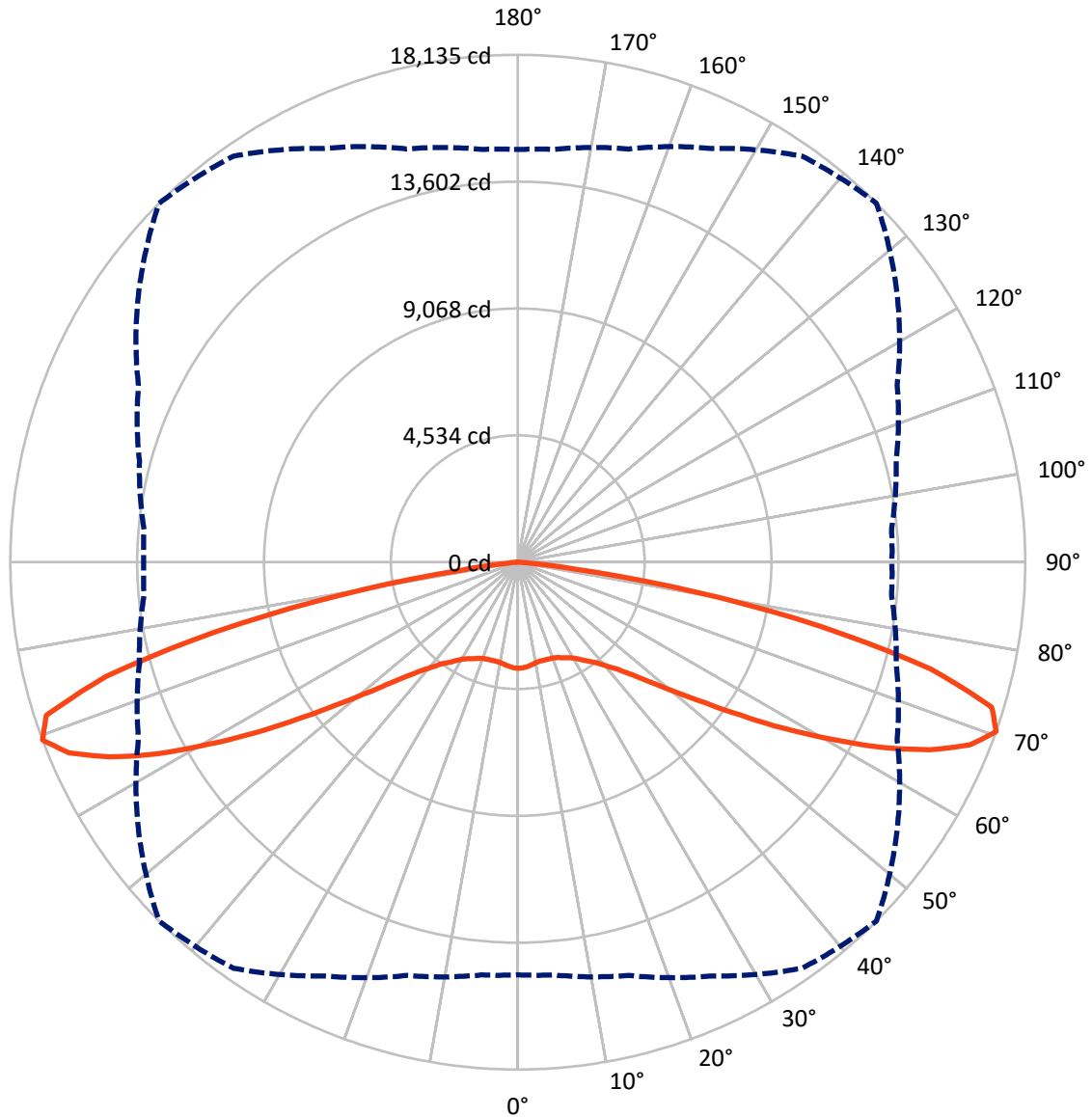
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	22399.0	0.0	22399.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22399.0	0.0	22399.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44798.0	0.0	44798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	0.8
10°-20°	1038.4	2.3
20°-30°	1769.1	3.9
30°-40°	2742.1	6.1
40°-50°	4615.4	10.3
50°-60°	8397.6	18.7
60°-70°	14216.9	31.7
70°-80°	11004.4	24.6
80°-90°	659.4	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°	44798.0	100.0
0°-180°	44798.0	100.0



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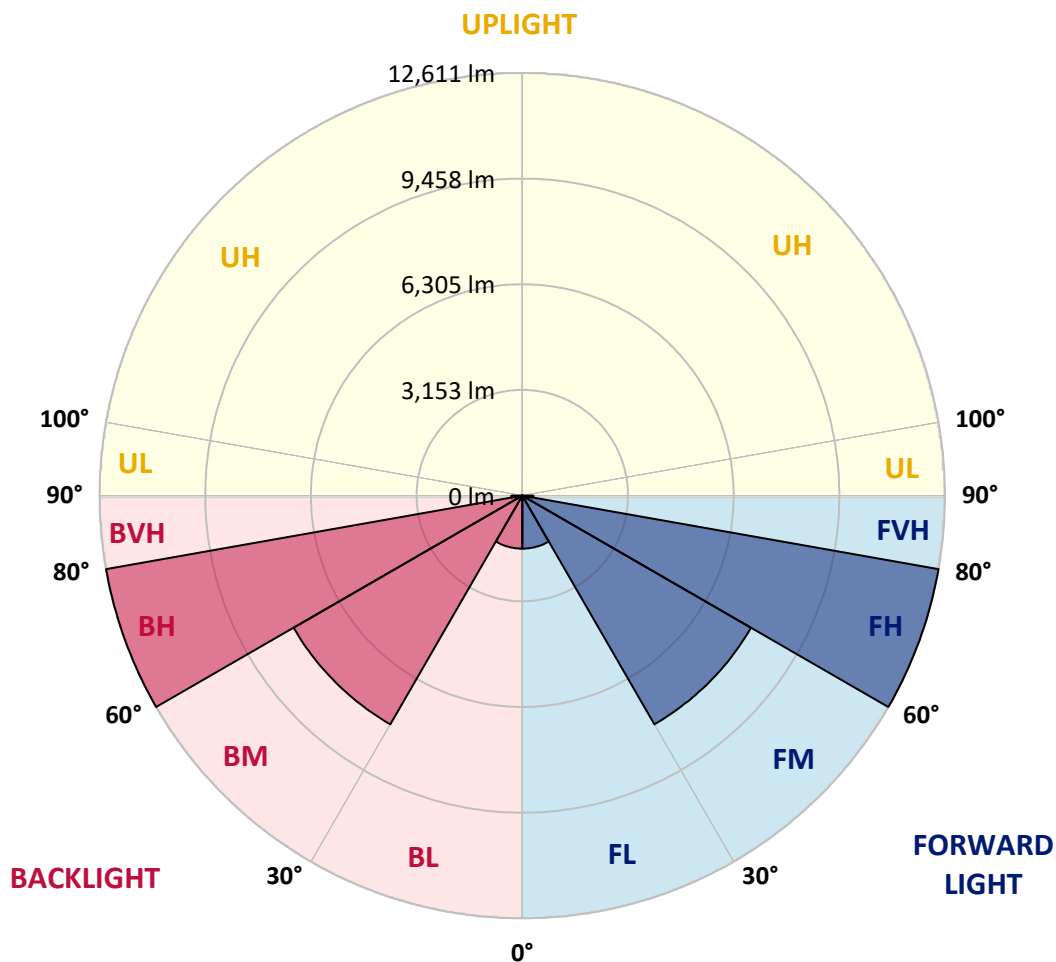
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.1	3.5			
FM (30°-60°)	7877.6	17.6			
FH (60°-80°)	12610.6	28.1			G5
FVH (80°-90°)	329.7	0.7			G3/500
BL (0°-30°)	1581.1	3.5	B3/2500		
BM (30°-60°)	7877.6	17.6	B4/8500		
BH (60°-80°)	12610.6	28.1	B5		G5
BVH (80°-90°)	329.7	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°	3792.7	3792.7	3792.7	3792.7	3792.7	3792.7	3792.7	3792.7	3792.7	3792.7	3792.7
2.5°	3783.2	3785.6	3785.6	3780.9	3778.5	3778.5	3776.1	3776.1	3783.2	3785.6	3788.0
5°	3750.1	3750.1	3750.1	3747.7	3743.0	3743.0	3738.3	3738.3	3740.6	3747.7	3743.0
7.5°	3705.2	3709.9	3709.9	3700.4	3693.3	3693.3	3691.0	3693.3	3695.7	3702.8	3700.4
10°	3691.0	3693.3	3681.5	3664.9	3653.1	3646.0	3648.4	3653.1	3664.9	3669.7	3672.0
12.5°	3700.4	3700.4	3679.1	3655.5	3634.2	3624.7	3622.3	3638.9	3660.2	3674.4	3679.1
15°	3712.3	3707.5	3681.5	3650.7	3629.4	3627.1	3624.7	3636.5	3667.3	3695.7	3698.1
17.5°	3719.4	3717.0	3683.9	3646.0	3634.2	3634.2	3631.8	3641.3	3674.4	3709.9	3712.3
20°	3743.0	3735.9	3698.1	3657.8	3648.4	3653.1	3646.0	3657.8	3693.3	3735.9	3745.4
22.5°	3790.3	3783.2	3745.4	3705.2	3700.4	3700.4	3698.1	3709.9	3747.7	3792.7	3799.8
25°	3847.1	3840.0	3804.5	3776.1	3780.9	3790.3	3785.6	3788.0	3818.7	3856.6	3868.4
27.5°	3922.8	3911.0	3880.2	3856.6	3870.8	3870.8	3870.8	3868.4	3887.3	3922.8	3934.7
30°	4015.1	4010.4	3977.2	3974.9	3986.7	3974.9	3974.9	3977.2	3979.6	4012.7	4024.6
32.5°	4135.8	4126.3	4109.7	4105.0	4138.1	4147.6	4114.5	4083.7	4100.3	4133.4	4140.5
35°	4334.5	4320.3	4296.7	4270.6	4296.7	4341.6	4270.6	4247.0	4289.6	4334.5	4339.2
37.5°	4604.2	4597.1	4559.3	4512.0	4509.6	4556.9	4483.6	4481.2	4561.6	4616.1	4623.2
40°	4942.6	4949.7	4902.4	4857.4	4833.7	4871.6	4814.8	4836.1	4914.2	4975.7	4971.0
42.5°	5418.1	5392.1	5318.8	5276.2	5250.2	5236.0	5221.8	5254.9	5342.4	5408.7	5460.7
45°	5974.2	5964.7	5872.4	5820.4	5763.6	5742.3	5737.6	5796.7	5903.2	5983.6	5990.7
47.5°	6603.5	6582.2	6523.1	6468.6	6447.4	6421.3	6397.7	6442.6	6549.1	6605.9	6622.4
50°	7251.8	7256.5	7256.5	7247.1	7268.4	7273.1	7209.2	7225.8	7284.9	7280.2	7275.5
52.5°	7992.4	8018.4	8141.4	8153.2	8255.0	8323.6	8207.7	8139.0	8117.7	7990.0	7999.4
55°	8863.0	8886.7	9071.2	9255.8	9530.3	9646.2	9402.5	9189.5	9038.1	8844.1	8853.6
57.5°	9949.0	9960.9	10135.9	10490.8	10926.2	11198.3	10770.0	10348.9	10041.3	9856.8	9783.4
60°	11117.8	11129.7	11385.2	11818.2	12494.9	12826.1	12296.1	11607.6	11219.6	10938.0	10956.9
62.5°	12520.9	12568.2	12797.7	13393.9	14214.9	14586.4	13883.7	12963.3	12438.1	12087.9	12102.1
65°	14023.3	14103.7	14354.5	15009.9	15767.0	16166.9	15305.7	14243.3	13590.3	13162.1	13207.0
67.5°	14998.1	15069.1	15431.1	16155.1	17099.1	17430.3	16318.3	15080.9	14264.6	13753.6	13658.9
70°	14749.6	14808.8	15291.5	16318.3	17716.6	18135.4	16559.6	14957.9	13997.3	13408.1	13370.3
72.5°	13020.1	12897.1	13602.1	15076.2	17011.5	17714.2	15800.2	13661.3	12452.3	11846.6	11775.6
75°	8628.8	8896.2	9937.2	11673.8	14392.4	15263.1	13486.2	10968.8	9447.4	8943.5	8865.4
77.5°	2884.2	3090.0	4015.1	6617.7	9811.8	11120.2	9826.0	7173.7	5075.1	4088.4	4107.4
80°	764.2	754.8	977.2	1819.5	4239.9	6440.3	4935.5	2429.9	1329.7	963.0	913.3
82.5°	274.5	307.6	395.1	504.0	1123.9	2001.6	1412.5	681.4	499.2	369.1	357.3
85°	120.7	118.3	170.4	201.1	281.6	373.8	331.2	288.7	253.2	168.0	156.2
87.5°	26.0	26.0	40.2	30.8	49.7	49.7	61.5	73.3	75.7	49.7	40.2
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)