

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: P648630

Luminaire Tested: **GALN-SA9B-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42362.7 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

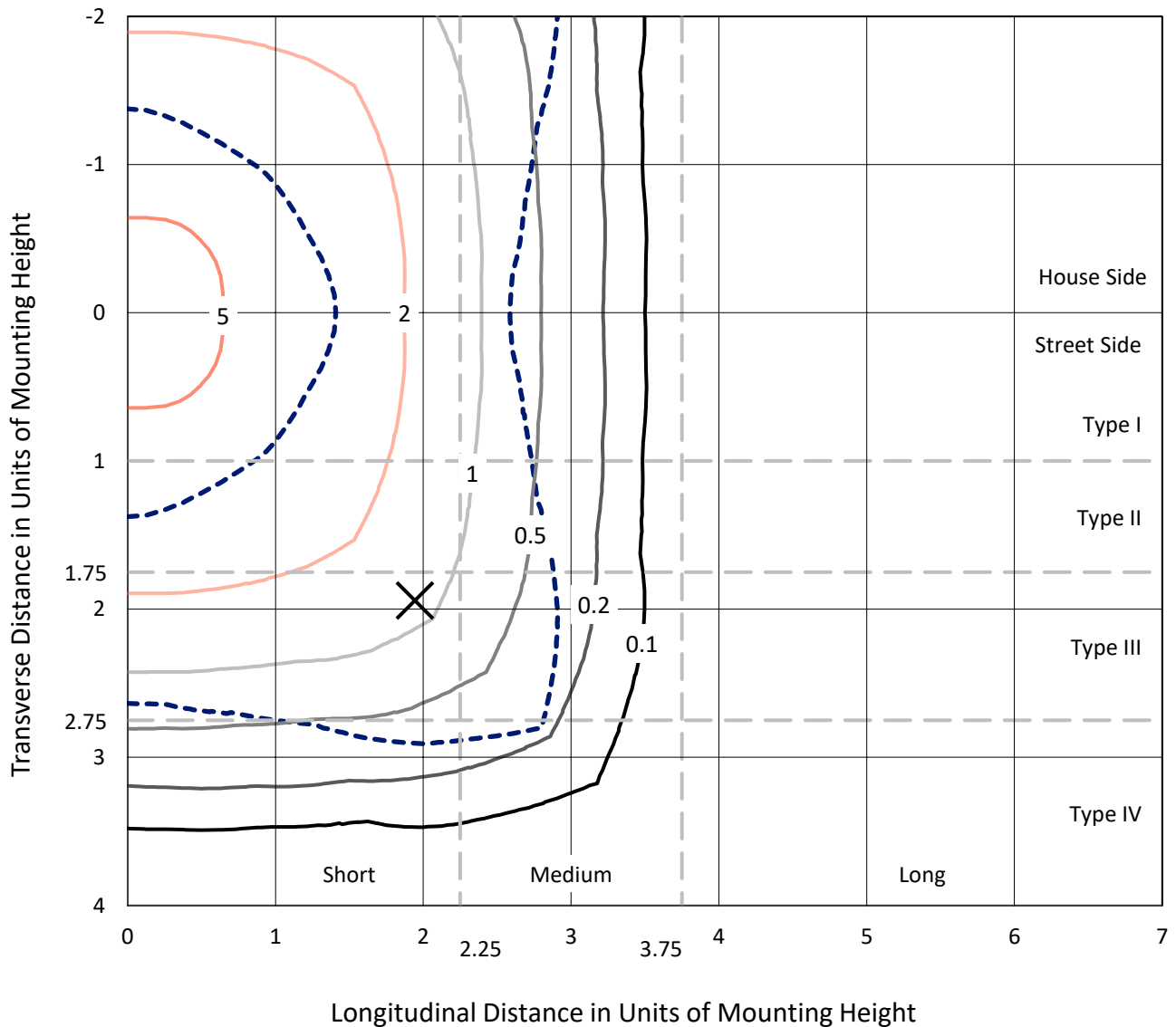
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

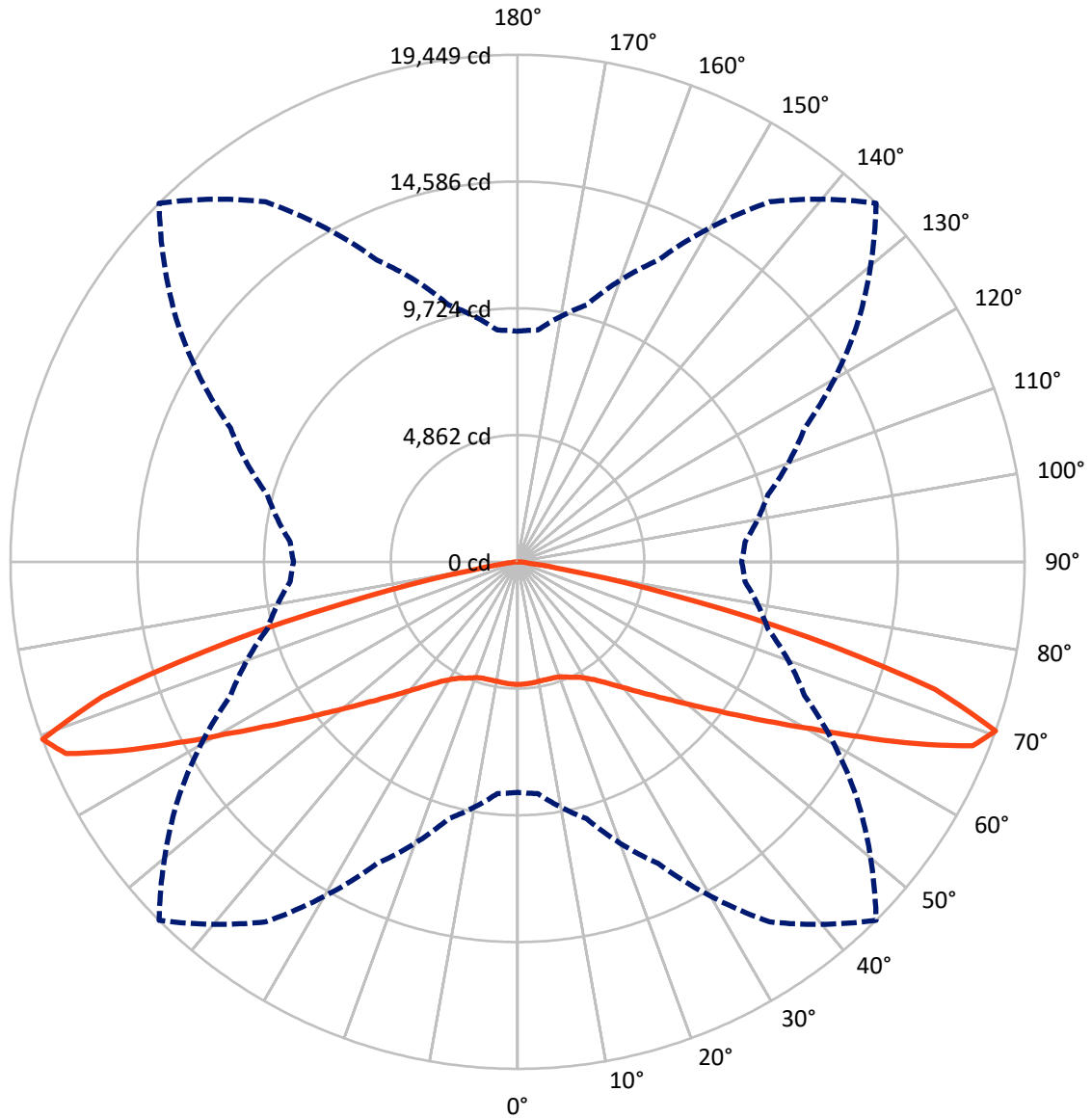
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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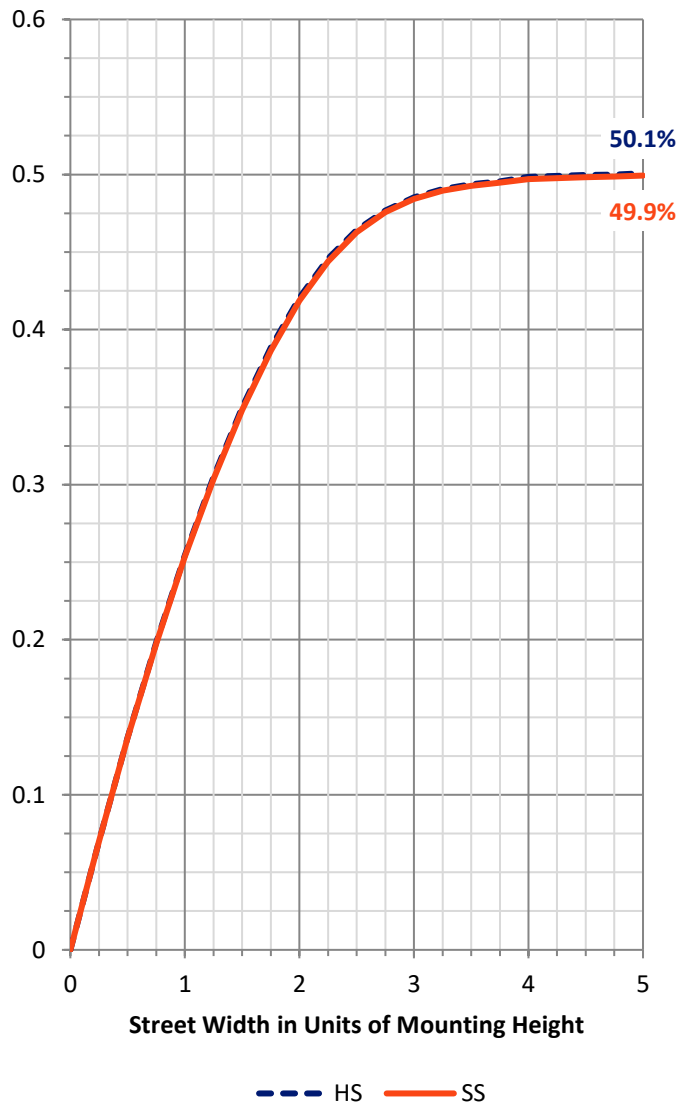
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21181.3	0.0	21181.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21181.3	0.0	21181.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	42362.7	0.0	42362.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.1
10°-20°	1309.0	3.1
20°-30°	2238.8	5.3
30°-40°	3553.5	8.4
40°-50°	5732.7	13.5
50°-60°	9327.3	22.0
60°-70°	13521.2	31.9
70°-80°	5997.5	14.2
80°-90°	236.5	0.6
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°	42362.7	100.0
0°-180°	42362.7	100.0

Coefficient of Utilization



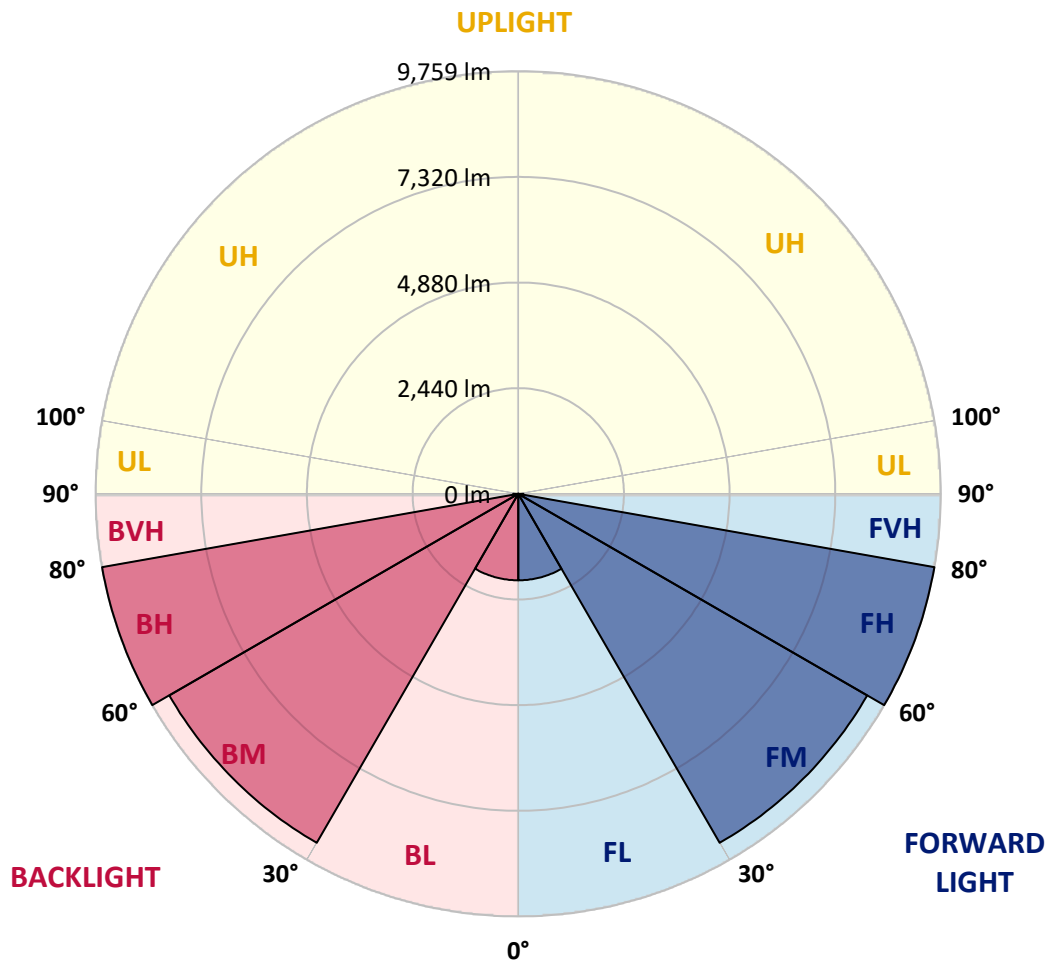
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.0	4.7			
FM (30°-60°)	9306.7	22.0			
FH (60°-80°)	9759.3	23.0			G4/12000
FVH (80°-90°)	118.3	0.3			G2/225
BL (0°-30°)	1997.0	4.7	B3/2500		
BM (30°-60°)	9306.7	22.0	B5		
BH (60°-80°)	9759.3	23.0	B5		G4/12000
BVH (80°-90°)	118.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4704.2	4704.2	4704.2	4704.2	4704.2	4704.2	4704.2	4704.2	4704.2	4704.2	4704.2
2.5°	4704.2	4708.6	4701.9	4697.5	4695.3	4695.3	4693.0	4695.3	4708.6	4710.8	4704.2
5°	4690.8	4695.3	4693.0	4688.5	4686.3	4686.3	4684.1	4681.9	4693.0	4697.5	4695.3
7.5°	4672.9	4675.1	4672.9	4670.7	4672.9	4670.7	4664.0	4659.6	4668.5	4668.5	4666.2
10°	4641.6	4646.1	4643.9	4646.1	4650.6	4650.6	4641.6	4632.7	4635.0	4630.5	4630.5
12.5°	4603.7	4610.4	4612.7	4621.6	4632.7	4646.1	4626.0	4605.9	4601.5	4599.3	4597.0
15°	4579.1	4585.9	4594.8	4603.7	4623.8	4652.8	4623.8	4592.5	4583.6	4574.7	4570.2
17.5°	4572.5	4581.4	4594.8	4608.2	4635.0	4664.0	4639.4	4608.2	4585.9	4572.5	4567.9
20°	4590.3	4597.0	4617.1	4641.6	4679.6	4708.6	4684.1	4650.6	4617.1	4597.0	4590.3
22.5°	4626.0	4637.2	4661.7	4706.4	4760.0	4802.4	4768.9	4713.1	4659.6	4632.7	4623.8
25°	4704.2	4713.1	4742.2	4802.4	4864.9	4905.1	4869.4	4804.6	4731.0	4695.3	4684.1
27.5°	4822.5	4835.9	4867.1	4938.6	4990.0	5012.3	4987.7	4943.1	4889.4	4851.5	4842.6
30°	4990.0	5005.6	5052.5	5128.3	5161.8	5175.2	5164.1	5135.1	5097.1	5056.9	5048.0
32.5°	5215.5	5224.4	5278.0	5349.4	5380.7	5385.2	5371.7	5358.3	5295.8	5228.9	5224.4
35°	5467.8	5483.3	5548.1	5633.0	5662.0	5664.2	5637.4	5617.3	5543.6	5490.1	5490.1
37.5°	5802.7	5809.3	5871.9	5967.9	5999.1	5990.2	5976.8	5958.9	5880.8	5811.6	5813.8
40°	6195.6	6209.0	6262.6	6374.2	6374.2	6363.0	6372.0	6358.6	6280.4	6213.4	6215.7
42.5°	6662.2	6668.9	6733.6	6852.0	6843.0	6820.7	6829.6	6811.8	6762.7	6686.7	6660.0
45°	7160.1	7186.8	7298.5	7412.3	7394.5	7323.1	7358.8	7354.3	7309.7	7195.8	7202.5
47.5°	7760.6	7805.3	7912.4	8048.7	8028.6	7916.9	7957.2	7983.9	7921.4	7796.4	7774.0
50°	8437.1	8466.2	8624.7	8752.0	8734.1	8615.7	8707.3	8711.7	8555.4	8379.1	8379.1
52.5°	9158.3	9187.3	9401.6	9600.4	9611.5	9439.6	9513.3	9508.8	9254.3	9022.1	8977.4
55°	9966.5	9979.9	10256.8	10549.2	10611.8	10444.3	10453.2	10363.9	10033.5	9763.3	9738.8
57.5°	10801.5	10850.7	11156.5	11536.0	11721.4	11618.6	11571.8	11332.9	11013.6	10703.3	10687.6
60°	11725.8	11728.1	12125.5	12574.2	12949.3	13018.5	12826.5	12507.3	12094.2	11683.4	11665.5
62.5°	12366.6	12462.6	12964.9	13724.0	14396.1	14784.5	14277.8	13607.9	12795.2	12132.2	12065.2
65°	12498.3	12563.1	13328.9	14614.9	15987.9	16825.2	15653.0	14228.6	12842.1	11958.1	11913.3
67.5°	11433.4	11502.6	12534.0	14507.7	17104.2	18821.1	16546.1	13929.4	12047.3	10953.3	10866.2
70°	8843.5	8921.7	10196.5	12770.7	16856.4	19448.5	15909.8	12150.0	9935.3	8754.2	8595.7
72.5°	4701.9	4990.0	6079.4	8765.4	13681.6	16744.8	13045.3	8865.8	6407.7	5237.8	5027.9
75°	1716.9	1752.6	2359.9	3887.0	7959.4	11482.5	8265.3	4228.6	2431.4	1877.6	1781.6
77.5°	709.9	707.8	777.0	1174.3	2891.3	5880.8	3226.2	1241.4	774.7	716.7	707.8
80°	419.8	419.8	462.1	489.0	761.3	1775.0	850.7	553.7	464.4	424.2	430.9
82.5°	187.5	198.7	292.5	308.1	368.4	486.7	410.8	352.7	303.6	209.8	189.8
85°	102.7	89.3	154.0	160.7	176.4	180.9	194.3	192.0	176.4	102.7	104.9
87.5°	20.1	24.6	44.6	33.5	38.0	33.5	44.6	62.5	64.8	35.7	29.0
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)