

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: P459325

Luminaire Tested: **GALN-SA8A-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459325
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-SA8A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36079 lumens
Efficiency: N/A
Efficacy: 147.9 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

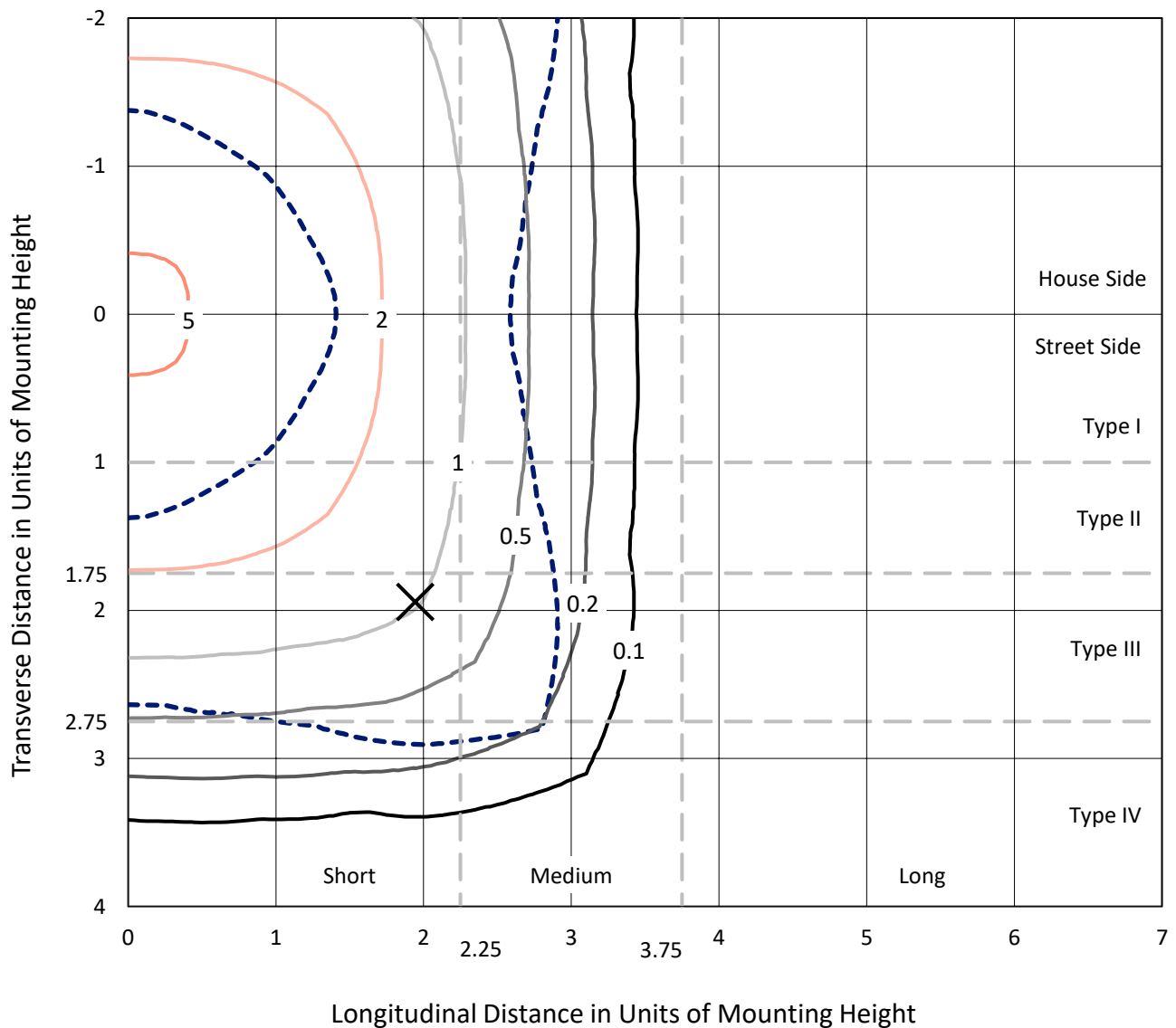
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

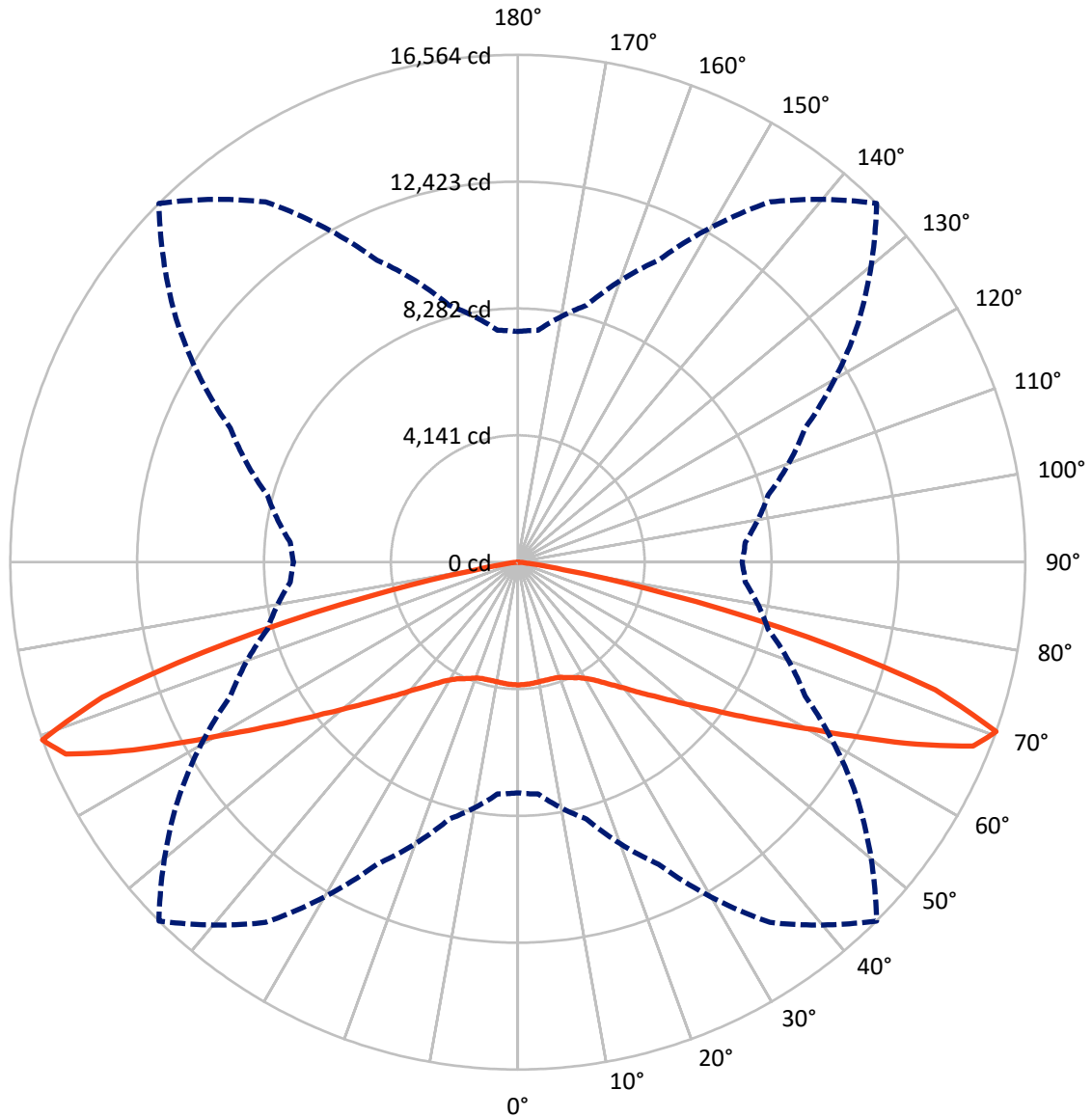
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	18039.5	0.0	18039.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18039.5	0.0	18039.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36079.0	0.0	36079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.9	1.1
10°-20°	1114.9	3.1
20°-30°	1906.7	5.3
30°-40°	3026.4	8.4
40°-50°	4882.4	13.5
50°-60°	7943.8	22.0
60°-70°	11515.6	31.9
70°-80°	5107.9	14.2
80°-90°	201.4	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°	36079.0	100.0
0°-180°	36079.0	100.0

Coefficient of Utilization



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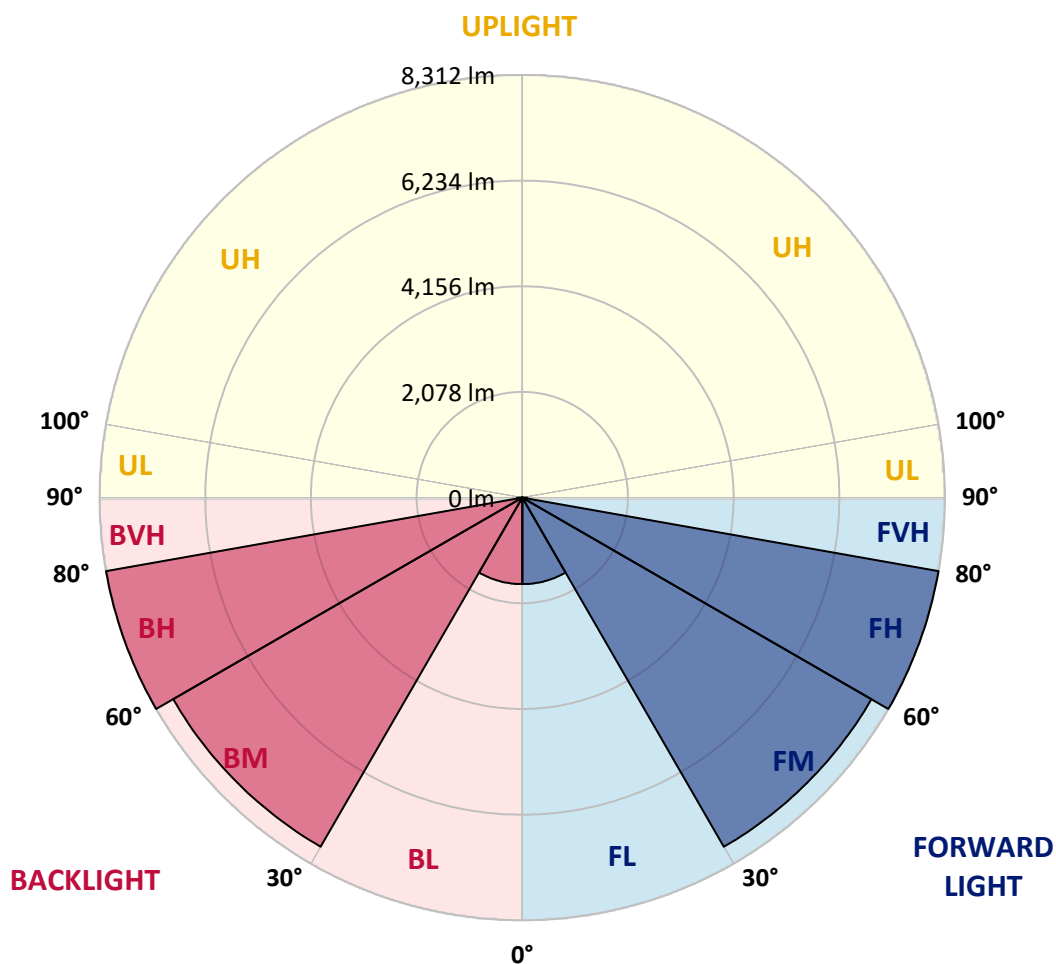
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1700.8	4.7			
FM	(30°-60°)	7926.3	22.0			
FH	(60°-80°)	8311.7	23.0			G4/12000
FVH	(80°-90°)	100.7	0.3			G2/225
BL	(0°-30°)	1700.8	4.7	B3/2500		
BM	(30°-60°)	7926.3	22.0	B4/8500		
BH	(60°-80°)	8311.7	23.0	B5		G4/12000
BVH	(80°-90°)	100.7	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°	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4	4006.4
2.5°	4006.4	4010.2	4004.5	4000.7	3998.8	3998.8	3996.9	3998.8	4010.2	4012.1	4006.4
5°	3995.0	3998.8	3996.9	3993.1	3991.2	3991.2	3989.3	3987.4	3996.9	4000.7	3998.8
7.5°	3979.8	3981.7	3979.8	3977.9	3979.8	3977.9	3972.2	3968.4	3976.0	3976.0	3974.1
10°	3953.2	3957.0	3955.1	3957.0	3960.8	3960.8	3953.2	3945.6	3947.5	3943.7	3943.7
12.5°	3920.8	3926.5	3928.4	3936.0	3945.6	3957.0	3939.9	3922.7	3918.9	3917.0	3915.1
15°	3899.9	3905.6	3913.2	3920.8	3937.9	3962.7	3937.9	3911.3	3903.7	3896.1	3892.3
17.5°	3894.2	3901.8	3913.2	3924.6	3947.5	3972.2	3951.3	3924.6	3905.6	3894.2	3890.4
20°	3909.4	3915.1	3932.2	3953.2	3985.5	4010.2	3989.3	3960.8	3932.2	3915.1	3909.4
22.5°	3939.9	3949.4	3970.3	4008.3	4053.9	4090.1	4061.5	4014.0	3968.4	3945.6	3937.9
25°	4006.4	4014.0	4038.7	4090.1	4143.3	4177.5	4147.1	4092.0	4029.2	3998.8	3989.3
27.5°	4107.2	4118.6	4145.2	4206.1	4249.8	4268.8	4247.9	4209.9	4164.2	4131.9	4124.3
30°	4249.8	4263.1	4303.0	4367.7	4396.2	4407.6	4398.1	4373.4	4341.1	4306.8	4299.2
32.5°	4441.8	4449.4	4495.1	4555.9	4582.5	4586.4	4574.9	4563.5	4510.3	4453.2	4449.4
35°	4656.7	4670.0	4725.2	4797.4	4822.1	4824.0	4801.2	4784.1	4721.4	4675.7	4675.7
37.5°	4941.9	4947.6	5000.9	5082.6	5109.3	5101.7	5090.2	5075.0	5008.5	4949.5	4951.4
40°	5276.6	5288.0	5333.6	5428.7	5428.7	5419.2	5426.8	5415.4	5348.8	5291.8	5293.7
42.5°	5674.0	5679.7	5734.8	5835.6	5828.0	5809.0	5816.6	5801.4	5759.6	5694.9	5672.1
45°	6098.0	6120.8	6215.9	6312.9	6297.7	6236.8	6267.3	6263.5	6225.4	6128.4	6134.2
47.5°	6609.5	6647.5	6738.8	6854.8	6837.7	6742.6	6776.8	6799.7	6746.4	6639.9	6620.9
50°	7185.7	7210.4	7345.4	7453.8	7438.6	7337.8	7415.7	7419.5	7286.4	7136.2	7136.2
52.5°	7799.8	7824.6	8007.1	8176.3	8185.8	8039.4	8102.2	8098.4	7881.6	7683.9	7645.8
55°	8488.2	8499.6	8735.4	8984.5	9037.7	8895.1	8902.7	8826.6	8545.2	8315.1	8294.2
57.5°	9199.3	9241.2	9501.7	9824.9	9982.7	9895.3	9855.3	9651.9	9380.0	9115.7	9102.3
60°	9986.5	9988.4	10326.9	10709.1	11028.5	11087.5	10924.0	10652.0	10300.3	9950.4	9935.2
62.5°	10532.3	10614.0	11041.9	11688.4	12260.7	12591.6	12159.9	11589.5	10897.3	10332.6	10275.6
65°	10644.4	10699.6	11351.8	12447.0	13616.4	14329.5	13331.2	12118.1	10937.3	10184.3	10146.3
67.5°	9737.4	9796.4	10674.9	12355.8	14567.2	16029.4	14091.8	11863.3	10260.3	9328.6	9254.5
70°	7531.7	7598.3	8684.0	10876.4	14356.1	16563.7	13549.9	10347.8	8461.6	7455.7	7320.7
72.5°	4004.5	4249.8	5177.7	7465.2	11652.2	14261.0	11110.3	7550.7	5457.2	4460.9	4282.1
75°	1462.2	1492.7	2009.9	3310.5	6778.8	9779.3	7039.3	3601.4	2070.7	1599.1	1517.4
77.5°	604.7	602.8	661.7	1000.2	2462.4	5008.5	2747.6	1057.2	659.8	610.4	602.8
80°	357.5	357.5	393.6	416.4	648.4	1511.7	724.5	471.6	395.5	361.3	367.0
82.5°	159.7	169.2	249.1	262.4	313.7	414.5	349.9	300.4	258.6	178.7	161.6
85°	87.5	76.1	131.2	136.9	150.2	154.0	165.4	163.5	150.2	87.5	89.4
87.5°	17.1	20.9	38.0	28.5	32.3	28.5	38.0	53.2	55.1	30.4	24.7
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)