

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: P459214

Luminaire Tested: **GALN-SA7A-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30614 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

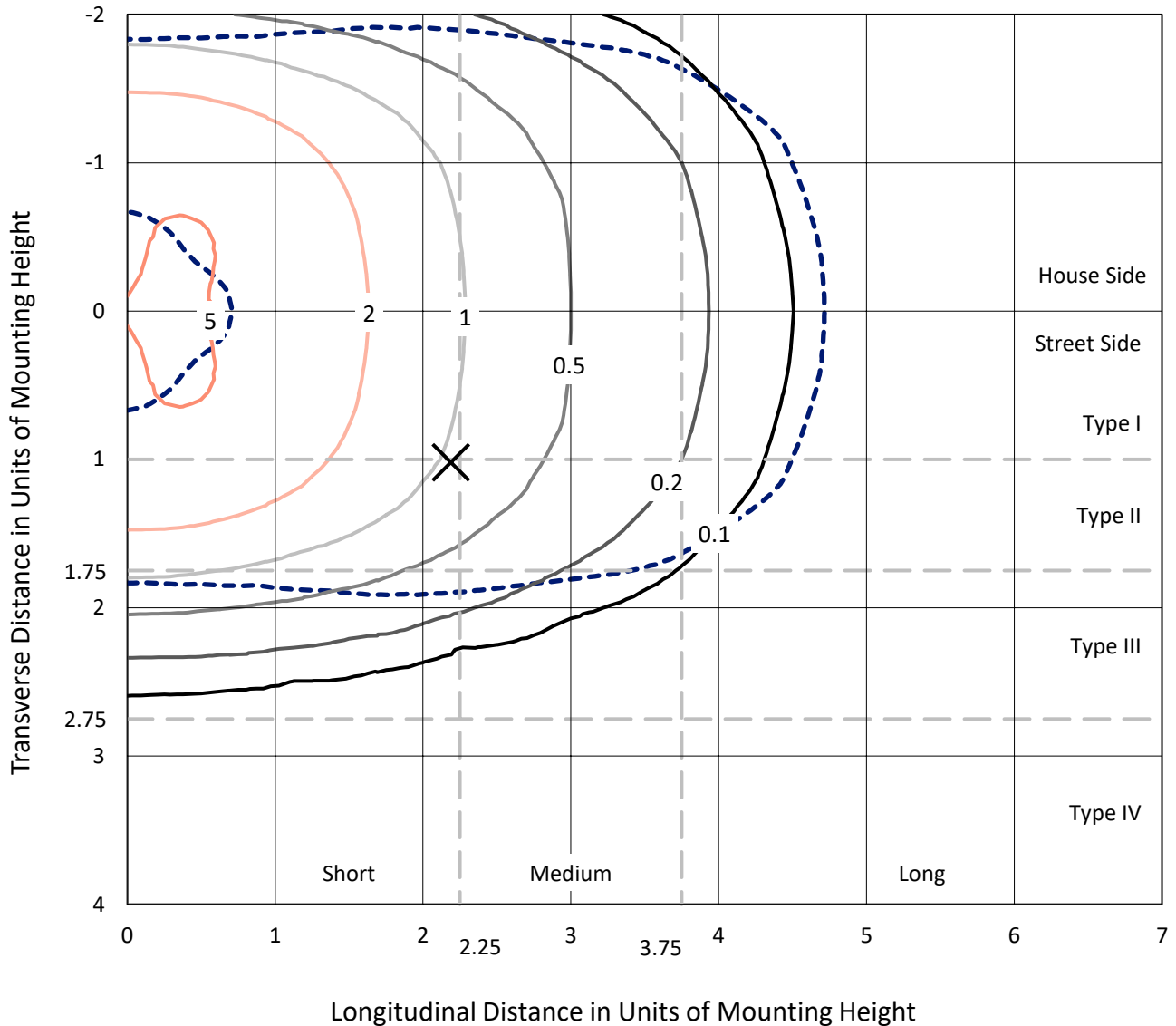
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

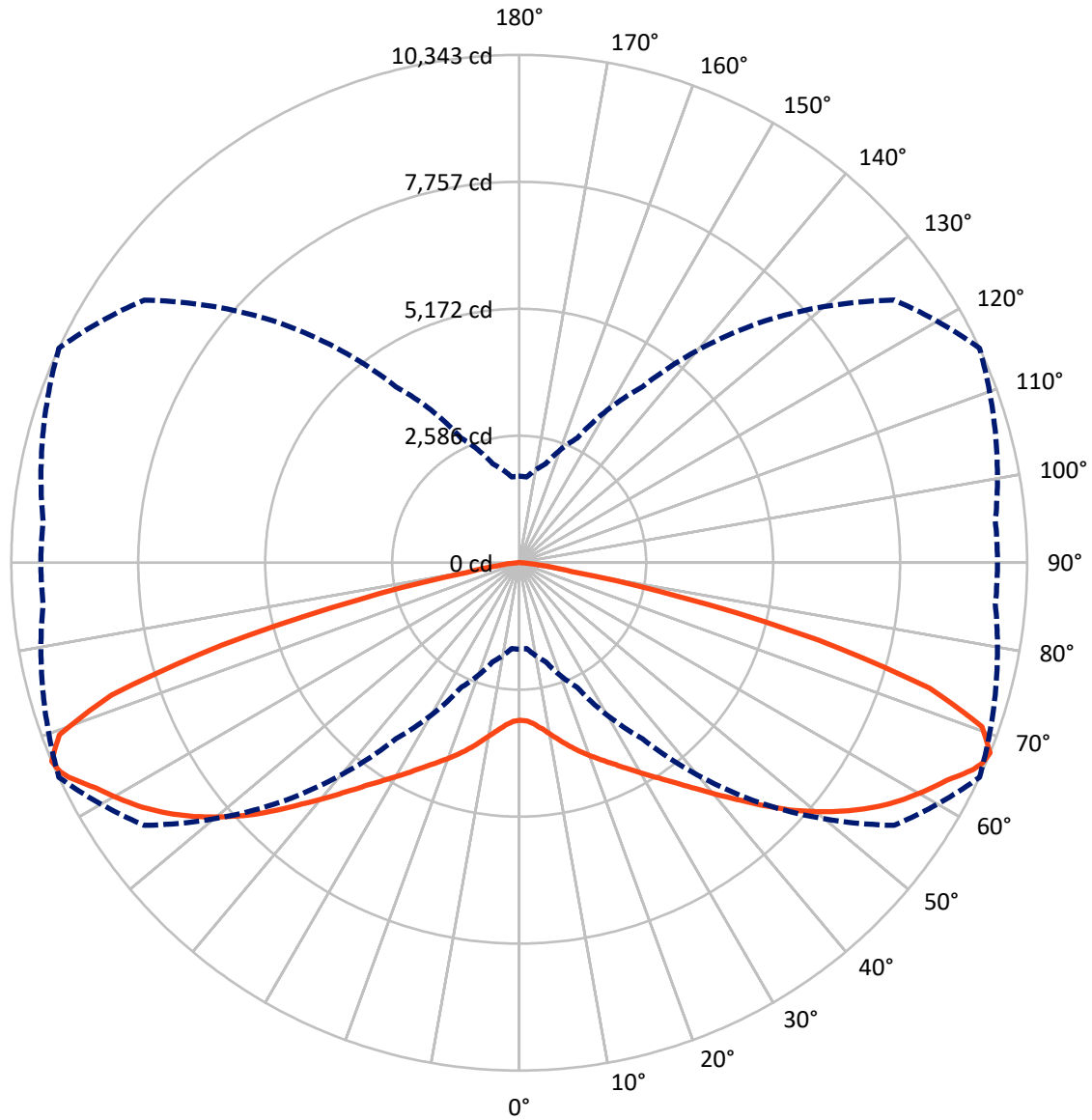
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15307.0	0.0	15307.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15307.0	0.0	15307.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30614.0	0.0	30614.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	1.0
10°-20°	1058.5	3.5
20°-30°	2070.4	6.8
30°-40°	3521.5	11.5
40°-50°	5573.5	18.2
50°-60°	7390.4	24.1
60°-70°	6971.4	22.8
70°-80°	3446.3	11.3
80°-90°	265.6	0.9
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°	30614.0	100.0
0°-180°	30614.0	100.0



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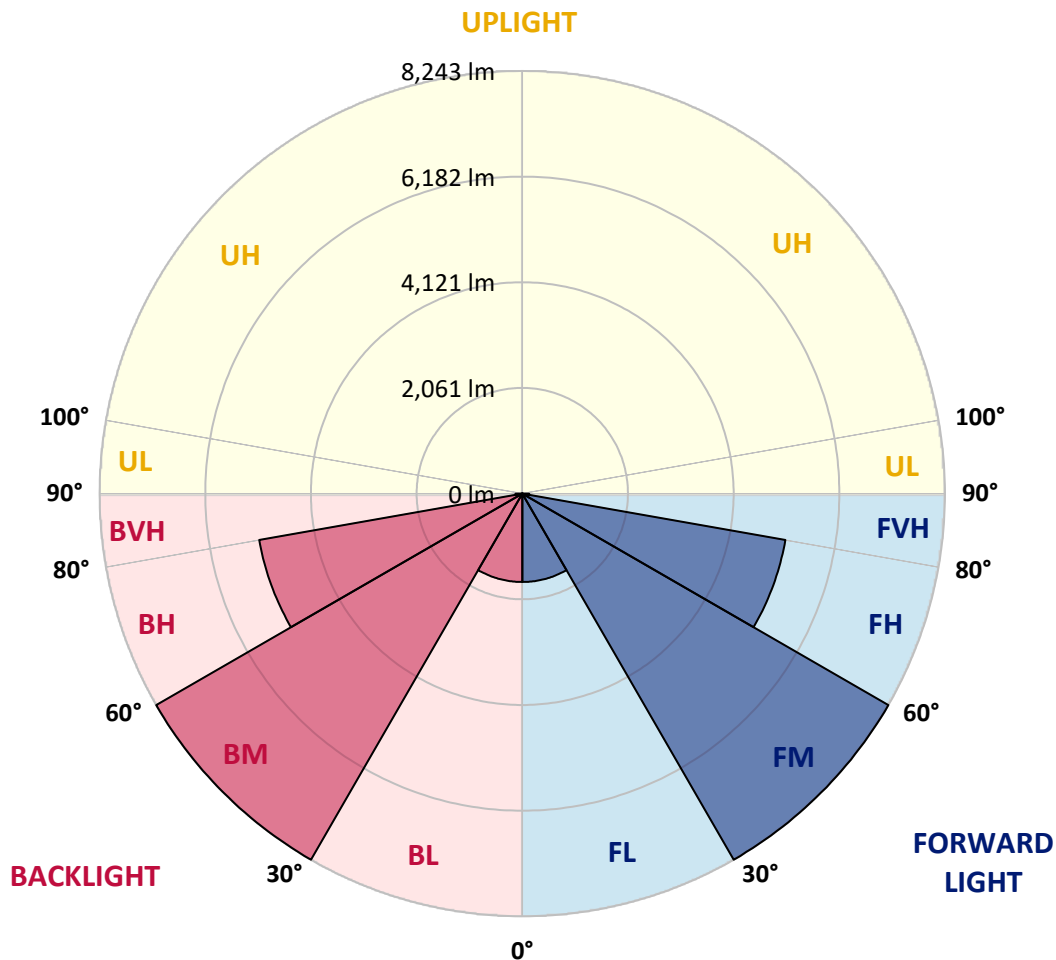
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1722.6	5.6			
FM	(30°-60°)	8242.7	26.9			
FH	(60°-80°)	5208.9	17.0			G3/7500
FVH	(80°-90°)	132.8	0.4			G2/225
BL	(0°-30°)	1722.6	5.6	B3/2500		
BM	(30°-60°)	8242.7	26.9	B4/8500		
BH	(60°-80°)	5208.9	17.0	B5		G5
BVH	(80°-90°)	132.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3206.5	3206.5	3206.5	3206.5	3206.5	3206.5	3206.5	3206.5	3206.5	3206.5	3206.5
2.5°	3190.1	3193.4	3196.7	3201.6	3208.2	3218.0	3224.6	3229.5	3242.6	3244.3	3242.6
5°	3178.7	3181.9	3190.1	3204.9	3226.2	3255.8	3278.7	3306.6	3327.9	3342.7	3339.4
7.5°	3177.0	3183.6	3196.7	3227.9	3268.9	3319.7	3372.2	3419.8	3460.8	3493.6	3488.7
10°	3203.3	3211.5	3232.8	3278.7	3342.7	3416.5	3490.3	3560.8	3619.9	3662.5	3677.3
12.5°	3247.6	3254.1	3293.5	3362.4	3454.2	3546.1	3629.7	3716.6	3798.7	3870.8	3870.8
15°	3324.6	3336.1	3385.3	3485.4	3598.5	3705.2	3790.4	3882.3	3970.9	4052.9	4077.5
17.5°	3431.3	3447.7	3521.5	3649.4	3793.7	3892.1	3972.5	4048.0	4125.0	4203.8	4215.3
20°	3577.2	3593.6	3692.0	3846.2	4016.8	4134.9	4189.0	4207.1	4244.8	4320.2	4330.1
22.5°	3775.7	3792.1	3902.0	4075.8	4266.1	4394.0	4417.0	4374.4	4364.5	4423.6	4430.1
25°	4000.4	4015.2	4141.4	4328.4	4525.2	4664.7	4658.1	4553.1	4494.1	4530.2	4540.0
27.5°	4253.0	4274.3	4402.2	4595.8	4809.0	4932.0	4912.3	4759.8	4633.5	4626.9	4630.2
30°	4576.1	4599.1	4720.4	4905.8	5115.7	5228.9	5187.9	4982.9	4787.7	4722.1	4722.1
32.5°	4917.3	4974.7	5097.7	5291.2	5455.2	5537.2	5474.9	5228.9	4969.7	4877.9	4873.0
35°	5361.7	5392.9	5514.3	5702.9	5825.9	5889.9	5770.1	5506.1	5207.6	5099.3	5084.5
37.5°	5796.4	5822.6	5963.7	6144.1	6293.4	6290.1	6127.7	5835.8	5502.8	5381.4	5371.6
40°	6240.9	6268.8	6429.5	6595.2	6744.4	6731.3	6534.5	6208.1	5853.8	5717.7	5743.9
42.5°	6626.3	6657.5	6839.5	7075.7	7210.2	7206.9	6979.0	6611.6	6242.5	6121.1	6144.1
45°	6977.3	7005.2	7216.8	7487.4	7684.2	7708.8	7459.5	7070.8	6691.9	6536.1	6542.7
47.5°	7225.0	7277.5	7498.9	7808.9	8076.2	8163.2	7918.8	7538.3	7102.0	6939.6	6949.4
50°	7413.6	7446.4	7687.5	8040.1	8378.0	8558.4	8361.6	7971.3	7512.0	7339.8	7362.8
52.5°	7436.6	7475.9	7738.4	8145.1	8578.1	8852.0	8755.3	8394.4	7930.3	7753.1	7802.3
55°	7249.6	7272.5	7585.8	8079.5	8656.9	9070.2	9094.8	8788.1	8328.8	8194.3	8227.1
57.5°	6716.5	6775.6	7172.5	7772.8	8548.6	9186.6	9349.0	9145.6	8732.3	8599.4	8651.9
60°	5842.3	5901.4	6299.9	7061.0	8140.2	9132.5	9559.0	9462.2	9098.1	8991.5	9019.3
62.5°	4577.7	4572.8	5066.5	5999.8	7328.3	8866.8	9714.8	9767.3	9458.9	9324.4	9367.1
65°	2967.1	2981.8	3459.1	4464.6	6103.1	8191.0	9749.2	10156.0	9813.2	9609.8	9641.0
66°	2386.5	2430.7	2835.9	3762.6	5478.2	7748.2	9645.9	10270.8	9921.4	9675.4	9690.2
67.5°	1761.6	1753.3	2086.3	2801.4	4374.4	6906.8	9322.8	10343.0	10044.4	9734.5	9741.0
70°	1005.4	1003.8	1121.9	1538.5	2571.8	4863.1	7858.1	9996.9	10293.8	9947.7	9929.6
72.5°	734.8	729.9	746.3	849.6	1254.7	2455.3	5420.8	8737.2	10165.8	9913.2	9862.4
75°	616.7	613.4	610.1	623.3	703.6	1112.0	2876.9	6285.2	8820.9	9304.7	9252.2
77.5°	503.5	503.5	505.2	501.9	505.2	585.5	1192.4	3368.9	5371.6	5996.5	6142.5
80°	393.6	392.0	419.9	408.4	382.2	375.6	528.1	1084.2	1782.9	1773.0	1463.0
82.5°	290.3	270.6	319.8	311.6	282.1	239.5	308.4	462.5	595.4	387.1	287.0
85°	183.7	182.1	226.3	206.7	172.2	113.2	147.6	198.5	246.0	149.3	121.4
87.5°	32.8	31.2	72.2	52.5	52.5	32.8	41.0	54.1	80.4	55.8	41.0
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)