

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: P455759

Luminaire Tested: **GALN-SA7A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455759
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-SA7A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27801 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

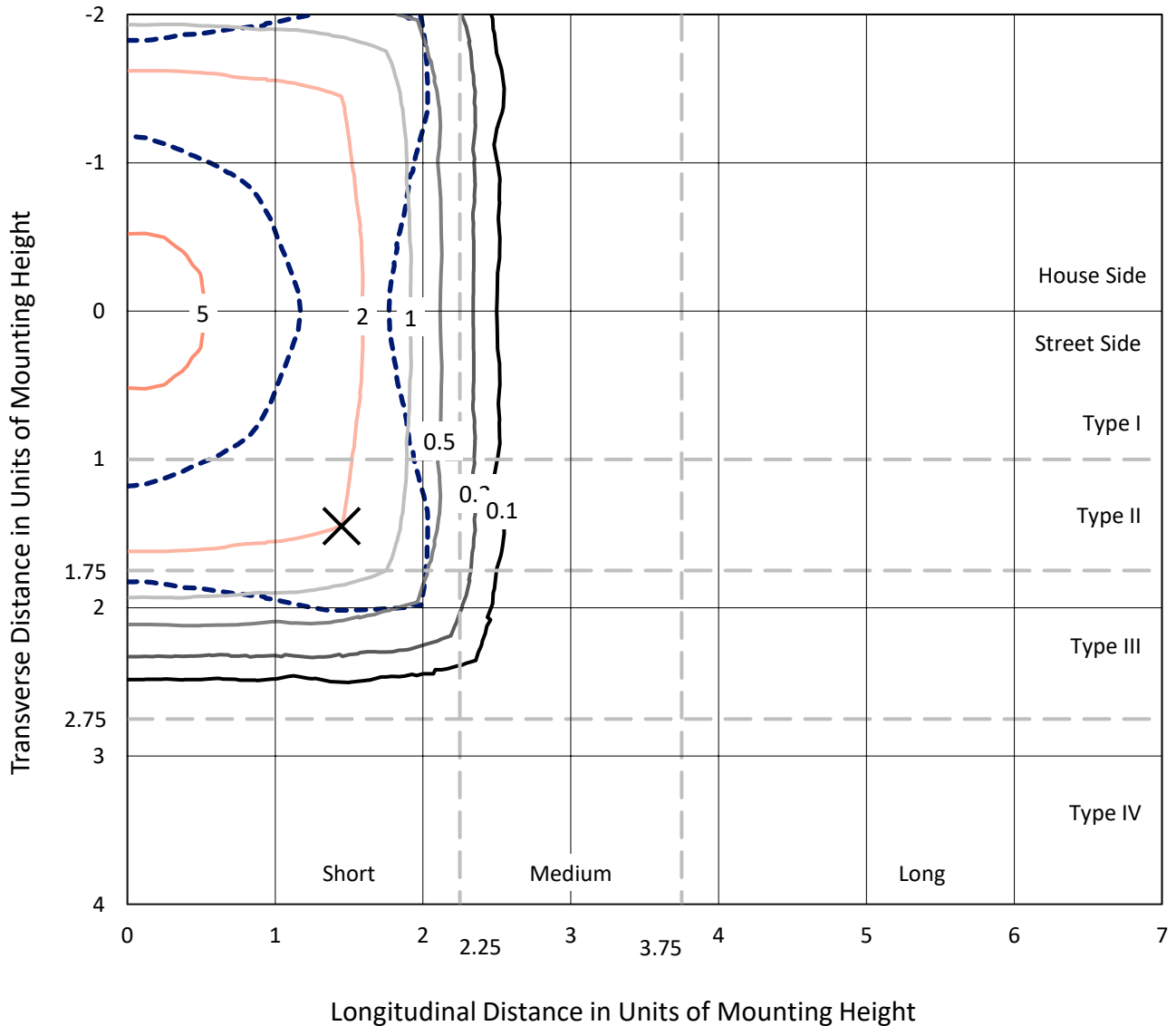
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

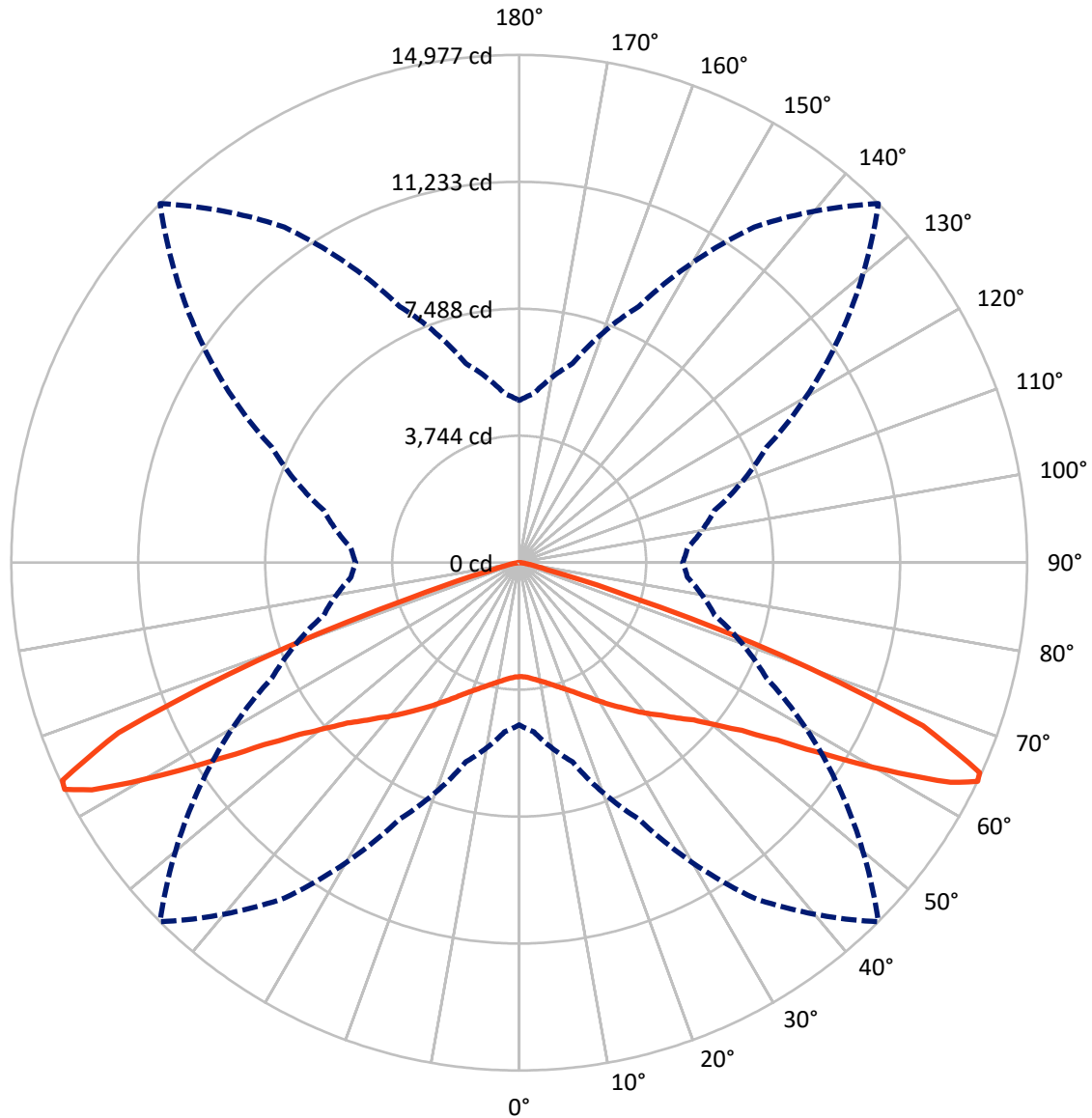
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	13900.5	0.0	13900.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13900.5	0.0	13900.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27801.0	0.0	27801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.2
10°-20°	1064.8	3.8
20°-30°	2012.2	7.2
30°-40°	3332.5	12.0
40°-50°	5202.6	18.7
50°-60°	8043.1	28.9
60°-70°	6935.5	24.9
70°-80°	786.0	2.8
80°-90°	94.2	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°	27801.0	100.0
0°-180°	27801.0	100.0

Coefficient of Utilization



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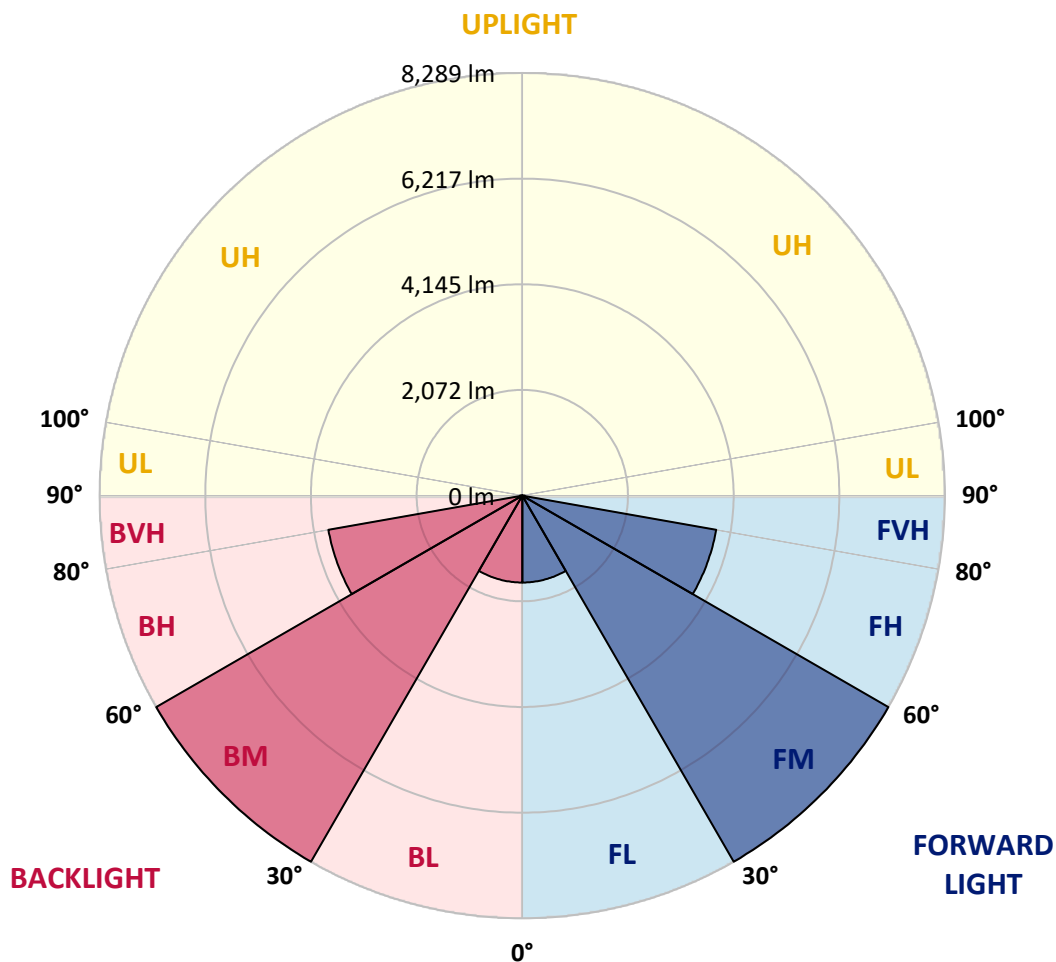
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.6	6.1			
FM (30°-60°)	8289.1	29.8			
FH (60°-80°)	3860.7	13.9			G2/5000
FVH (80°-90°)	47.1	0.2			G1/100
BL (0°-30°)	1703.6	6.1	B3/2500		
BM (30°-60°)	8289.1	29.8	B4/8500		
BH (60°-80°)	3860.7	13.9	B4/5000		G2/5000
BVH (80°-90°)	47.1	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°	3360.2	3360.2	3360.2	3360.2	3360.2	3360.2	3360.2	3360.2	3360.2	3360.2	3360.2
2.5°	3373.5	3380.8	3374.9	3373.5	3372.0	3372.0	3372.0	3373.5	3379.4	3383.8	3380.8
5°	3416.2	3422.1	3419.1	3417.6	3416.2	3417.6	3414.7	3413.2	3417.6	3417.6	3416.2
7.5°	3469.2	3476.5	3473.6	3476.5	3478.0	3479.5	3472.1	3466.2	3464.8	3469.2	3466.2
10°	3541.3	3547.2	3548.7	3550.2	3553.1	3551.6	3542.8	3532.5	3531.0	3529.6	3528.1
12.5°	3622.3	3626.7	3628.2	3634.1	3638.5	3640.0	3629.7	3620.8	3606.1	3609.1	3603.2
15°	3713.6	3722.5	3721.0	3729.8	3741.6	3744.5	3734.2	3719.5	3706.3	3698.9	3694.5
17.5°	3825.5	3831.4	3828.5	3837.3	3852.0	3859.4	3850.6	3831.4	3818.2	3802.0	3793.1
20°	3958.0	3968.4	3971.3	3971.3	3984.6	3991.9	3978.7	3972.8	3952.2	3940.4	3933.0
22.5°	4108.2	4112.7	4121.5	4130.3	4143.6	4140.6	4136.2	4127.4	4108.2	4097.9	4086.2
25°	4277.6	4282.0	4304.1	4323.2	4327.6	4324.7	4318.8	4314.4	4296.7	4273.2	4264.3
27.5°	4474.9	4483.7	4513.2	4530.8	4530.8	4532.3	4520.5	4535.3	4497.0	4469.0	4466.1
30°	4722.3	4728.2	4753.2	4770.9	4762.0	4754.7	4751.7	4766.4	4725.2	4675.2	4663.4
32.5°	4966.7	4987.3	5009.4	5047.7	5016.8	5003.5	5000.6	5010.9	4963.8	4907.8	4891.6
35°	5228.8	5243.5	5284.8	5317.2	5289.2	5258.3	5271.5	5303.9	5247.9	5172.9	5169.9
37.5°	5518.9	5532.1	5585.1	5619.0	5598.4	5545.4	5567.5	5605.8	5549.8	5457.0	5437.9
40°	5820.7	5848.7	5915.0	5950.3	5916.5	5845.8	5887.0	5928.2	5878.2	5770.7	5728.0
42.5°	6159.4	6203.6	6299.3	6317.0	6252.2	6156.5	6228.6	6294.9	6259.5	6135.9	6119.7
45°	6555.5	6582.0	6699.8	6738.1	6648.3	6529.0	6618.8	6739.6	6713.1	6570.2	6539.3
47.5°	6998.7	7023.8	7146.0	7203.4	7090.0	6929.5	7091.5	7249.1	7232.9	7079.7	7065.0
50°	7522.9	7528.8	7698.2	7763.0	7649.6	7511.2	7655.5	7851.3	7786.5	7590.7	7587.7
52.5°	8097.2	8104.6	8318.1	8443.2	8379.9	8223.8	8394.7	8513.9	8349.0	8092.8	8073.7
55°	8594.9	8631.7	8923.3	9256.1	9342.9	9229.6	9281.1	9225.1	8818.7	8459.4	8403.5
57.5°	8798.1	8870.3	9313.5	9934.9	10500.3	10668.2	10270.6	9737.6	9005.7	8497.7	8443.2
60°	8301.9	8379.9	9067.6	10247.0	11690.1	12419.0	11301.3	9824.4	8580.2	7866.0	7780.6
62.5°	6648.3	6670.4	7682.0	9512.3	12383.6	14271.4	11735.7	9083.8	7341.8	6371.5	6337.6
64°	4784.1	5010.9	6082.8	8340.2	12080.3	14976.7	11485.4	8045.7	5963.6	4981.4	4822.4
65°	3578.1	3640.0	4903.4	7122.4	11545.8	14923.7	10999.5	7053.2	4938.7	3812.3	3635.6
67.5°	1351.7	1359.1	1809.7	3550.2	8219.4	12840.1	8394.7	3837.3	2080.6	1504.9	1450.4
70°	561.0	571.3	664.1	1194.2	3532.5	8244.5	4047.9	1384.1	761.3	617.0	608.1
72.5°	410.8	416.7	444.7	530.1	1086.7	3385.3	1331.1	587.5	446.2	399.0	394.6
75°	322.5	325.4	346.0	390.2	506.5	938.0	553.7	403.5	340.1	306.3	303.3
77.5°	245.9	253.3	268.0	297.4	340.1	444.7	366.6	301.9	262.1	234.1	229.7
80°	169.3	178.2	206.1	217.9	228.2	288.6	250.3	228.2	204.7	170.8	160.5
82.5°	104.5	110.4	138.4	148.7	144.3	162.0	160.5	163.4	145.8	106.0	98.7
85°	54.5	57.4	75.1	78.0	72.2	66.3	82.5	95.7	89.8	60.4	58.9
87.5°	11.8	13.3	16.2	14.7	16.2	16.2	20.6	30.9	32.4	20.6	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)