

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: P652017

Luminaire Tested: **GALN-SA7A-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26740.4 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

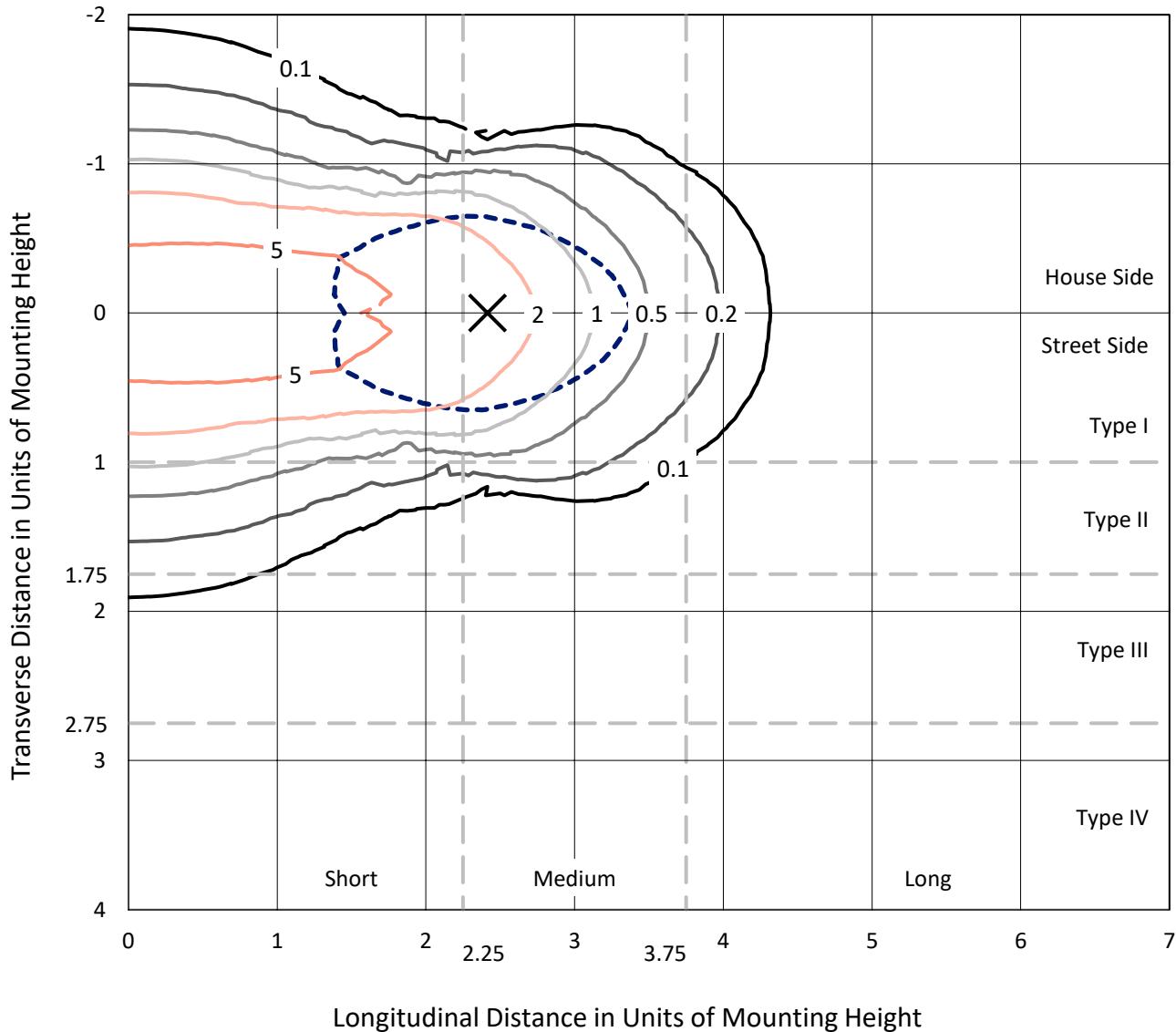
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

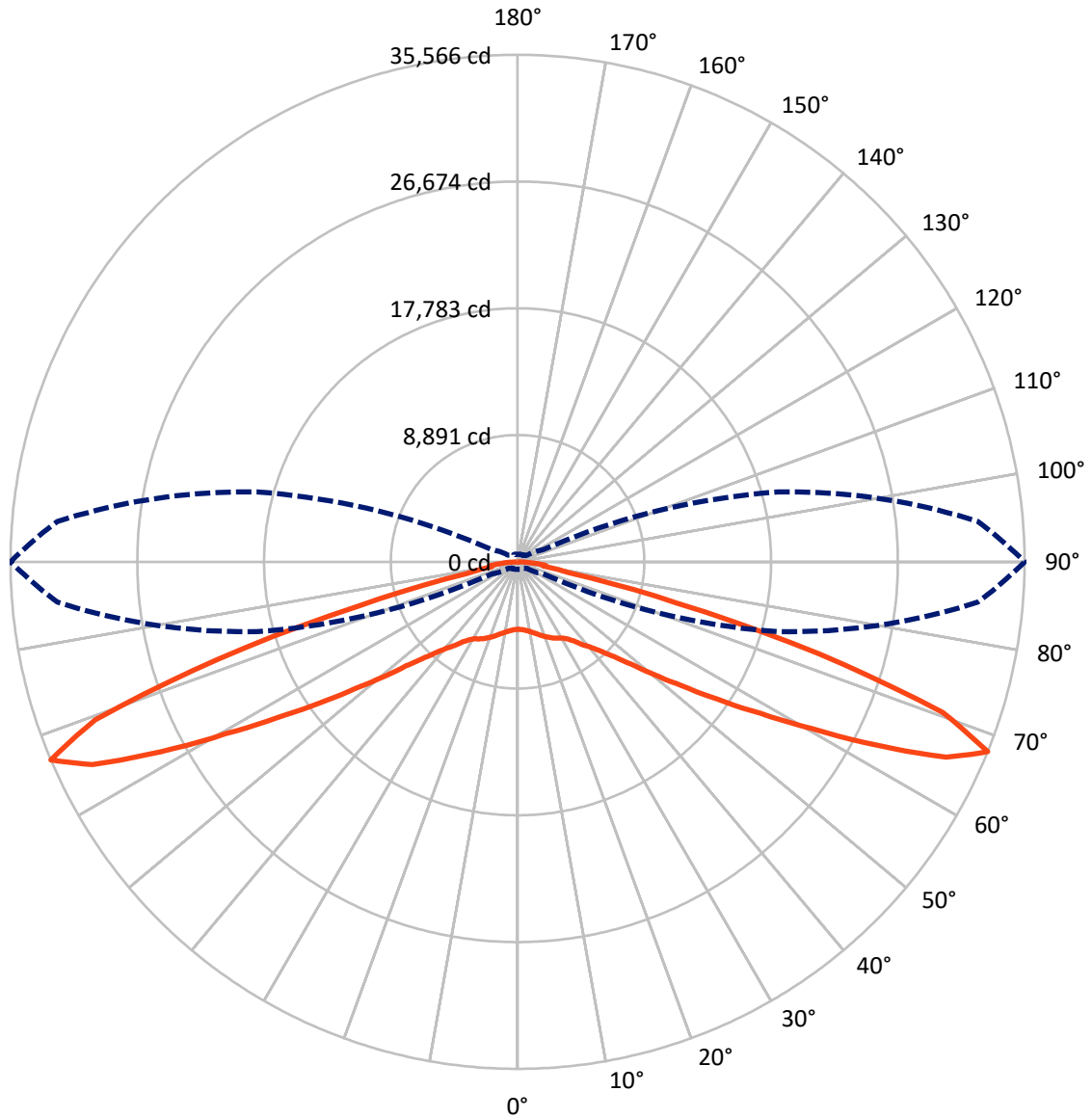
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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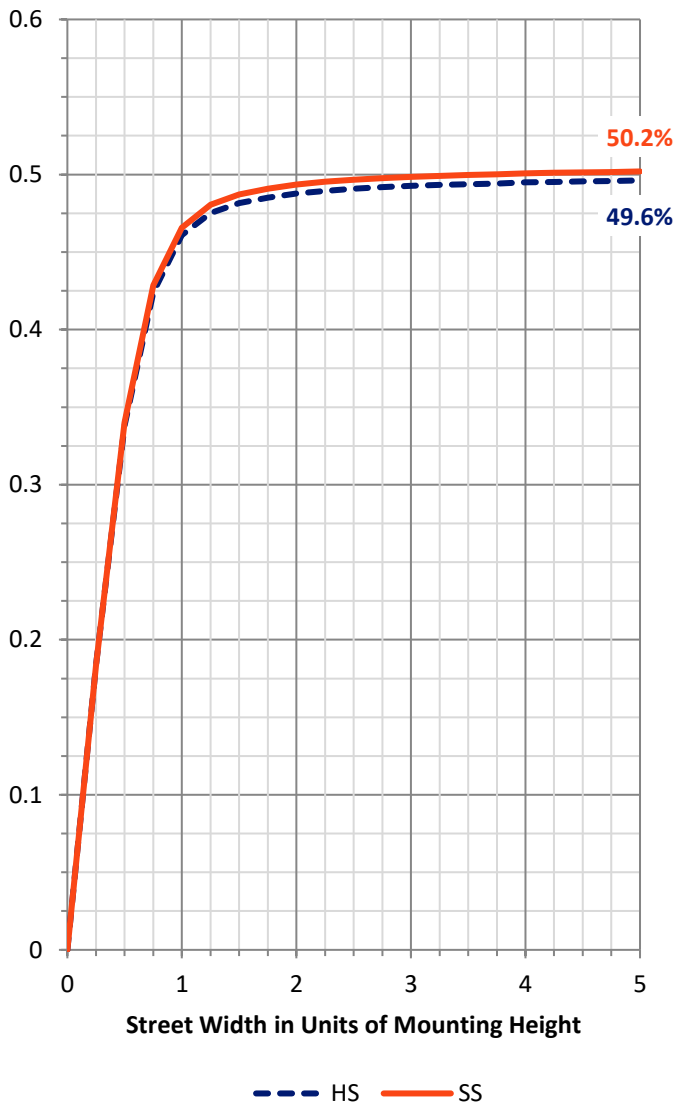
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13370.2	0.0	13370.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13370.2	0.0	13370.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26740.4	0.0	26740.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.0	1.8
10°-20°	1510.0	5.6
20°-30°	2527.4	9.5
30°-40°	3424.0	12.8
40°-50°	4337.1	16.2
50°-60°	5418.1	20.3
60°-70°	6368.7	23.8
70°-80°	2436.3	9.1
80°-90°	246.8	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°	26740.4	100.0
0°-180°	26740.4	100.0

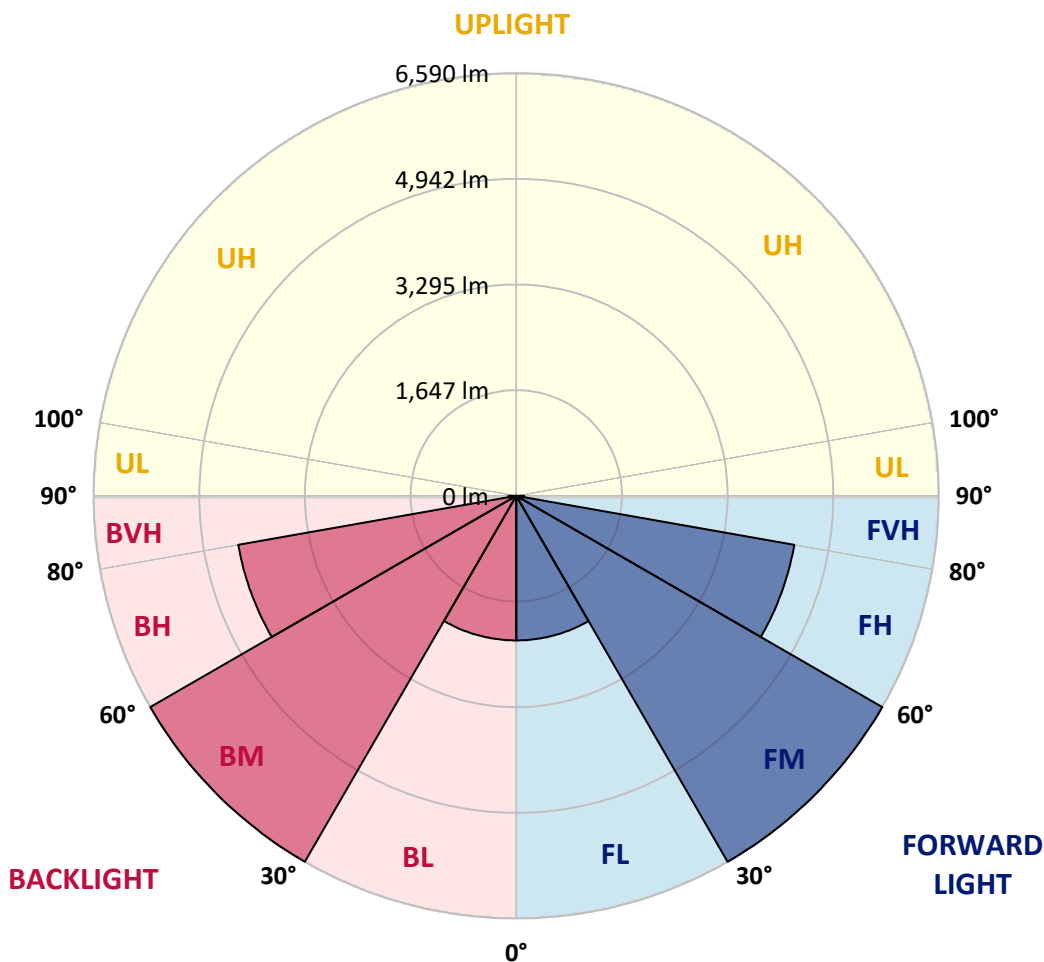


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.7	8.4			
FM (30°-60°)	6589.6	24.6			
FH (60°-80°)	4402.5	16.5			G2/5000
FVH (80°-90°)	123.4	0.5			G2/225
BL (0°-30°)	2254.7	8.4	B3/2500		
BM (30°-60°)	6589.6	24.6	B4/8500		
BH (60°-80°)	4402.5	16.5	B4/5000		G4/5000
BVH (80°-90°)	123.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9
2.5°	4794.6	4791.6	4793.1	4791.6	4796.1	4793.1	4775.4	4760.6	4748.7	4750.1	4745.8
5°	4896.8	4898.2	4899.8	4892.3	4902.7	4896.8	4868.6	4844.9	4821.3	4812.4	4809.4
7.5°	4981.2	4988.6	4993.0	5000.4	5018.2	5018.2	5003.4	4969.3	4917.5	4887.9	4886.4
10°	5065.6	5071.5	5084.9	5108.5	5138.1	5166.3	5160.4	5114.5	5047.8	4997.5	4985.6
12.5°	5095.2	5102.6	5147.0	5215.1	5281.7	5336.6	5336.6	5299.6	5213.6	5136.7	5114.5
15°	4991.5	5004.9	5084.9	5229.9	5404.7	5524.6	5551.3	5499.5	5407.6	5289.1	5262.5
17.5°	4785.7	4818.3	4935.2	5149.9	5440.2	5688.9	5766.0	5740.8	5622.3	5471.3	5440.2
20°	4565.1	4600.6	4725.0	5009.3	5410.6	5785.2	6008.8	6014.7	5868.2	5649.0	5603.1
22.5°	4322.2	4348.9	4508.9	4842.0	5321.8	5807.4	6217.6	6319.8	6121.3	5826.7	5761.5
25°	4049.8	4079.4	4246.7	4606.6	5154.4	5782.2	6408.6	6633.6	6386.4	6016.2	5933.3
27.5°	3789.2	3801.1	3980.2	4346.0	4933.8	5717.1	6549.3	6922.4	6679.6	6173.2	6068.1
30°	3538.9	3567.1	3725.5	4086.8	4680.6	5589.8	6670.6	7251.1	6994.9	6337.5	6202.8
32.5°	3273.9	3308.0	3479.7	3845.5	4427.4	5398.7	6744.7	7611.0	7434.8	6604.0	6460.4
35°	3019.2	3041.4	3214.6	3570.0	4180.1	5176.6	6758.0	8016.7	8001.9	7008.3	6817.3
37.5°	2758.6	2791.2	2965.9	3306.5	3918.0	4941.2	6691.4	8447.6	8685.9	7569.5	7363.6
40°	2508.4	2536.5	2708.3	3051.8	3620.4	4653.9	6533.0	8841.4	9484.0	8146.9	7855.3
42.5°	2235.9	2243.3	2431.3	2780.8	3328.7	4320.8	6305.0	9192.4	10374.0	8921.4	8558.6
45°	1926.4	1945.7	2120.4	2464.0	2994.0	3947.7	5995.5	9482.6	11502.3	9994.9	9500.4
47.5°	1617.0	1633.2	1793.2	2132.3	2628.3	3519.7	5518.6	9737.3	12660.2	11358.6	10710.1
50°	1314.9	1323.7	1454.1	1754.7	2216.6	3069.6	4927.8	9818.7	13969.2	13289.6	12461.9
52.5°	1039.5	1052.8	1152.0	1387.5	1776.9	2538.0	4289.7	9617.3	15497.3	15578.8	14412.0
55°	842.5	847.0	921.0	1094.2	1388.9	1981.2	3519.7	9056.1	17140.9	18512.1	17023.9
57.5°	725.5	728.6	770.0	866.2	1069.1	1494.0	2730.5	7994.5	18617.2	21948.8	20035.7
60°	658.9	660.4	684.1	740.3	847.0	1146.1	1956.1	6496.0	20074.2	25773.5	23779.0
62.5°	617.5	617.5	633.8	664.8	716.7	879.5	1417.1	4686.5	21072.3	29654.6	28393.0
65°	577.5	577.5	589.3	611.6	639.7	719.6	1046.9	3056.2	21047.1	32481.3	33033.6
67.5°	531.6	531.6	540.4	562.7	578.9	619.0	808.5	2001.9	18905.9	32419.0	35565.6
70°	476.8	476.8	488.6	507.9	521.3	546.4	638.2	1369.7	13889.2	27680.8	31629.8
72.5°	422.0	423.5	430.9	450.1	460.5	475.3	530.1	959.5	8520.1	18848.2	22116.2
75°	361.3	364.2	371.6	390.9	399.8	405.7	447.2	684.1	4310.4	10162.2	11570.4
77.5°	291.7	297.6	302.1	322.8	328.7	337.6	368.7	494.6	1892.3	3651.5	3684.1
80°	213.2	220.6	234.0	253.2	257.7	263.6	281.3	350.9	857.3	1667.3	1810.9
82.5°	156.9	167.4	151.0	176.2	176.2	168.8	198.4	235.4	393.8	1651.1	1975.3
85°	85.9	87.4	78.5	90.3	96.2	94.8	105.1	115.5	191.0	1101.6	1135.7
87.5°	20.7	22.2	23.7	28.2	34.1	34.1	37.0	32.5	62.1	356.8	204.4
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)