

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: P651496

Luminaire Tested: **GALN-SA7D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47426.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

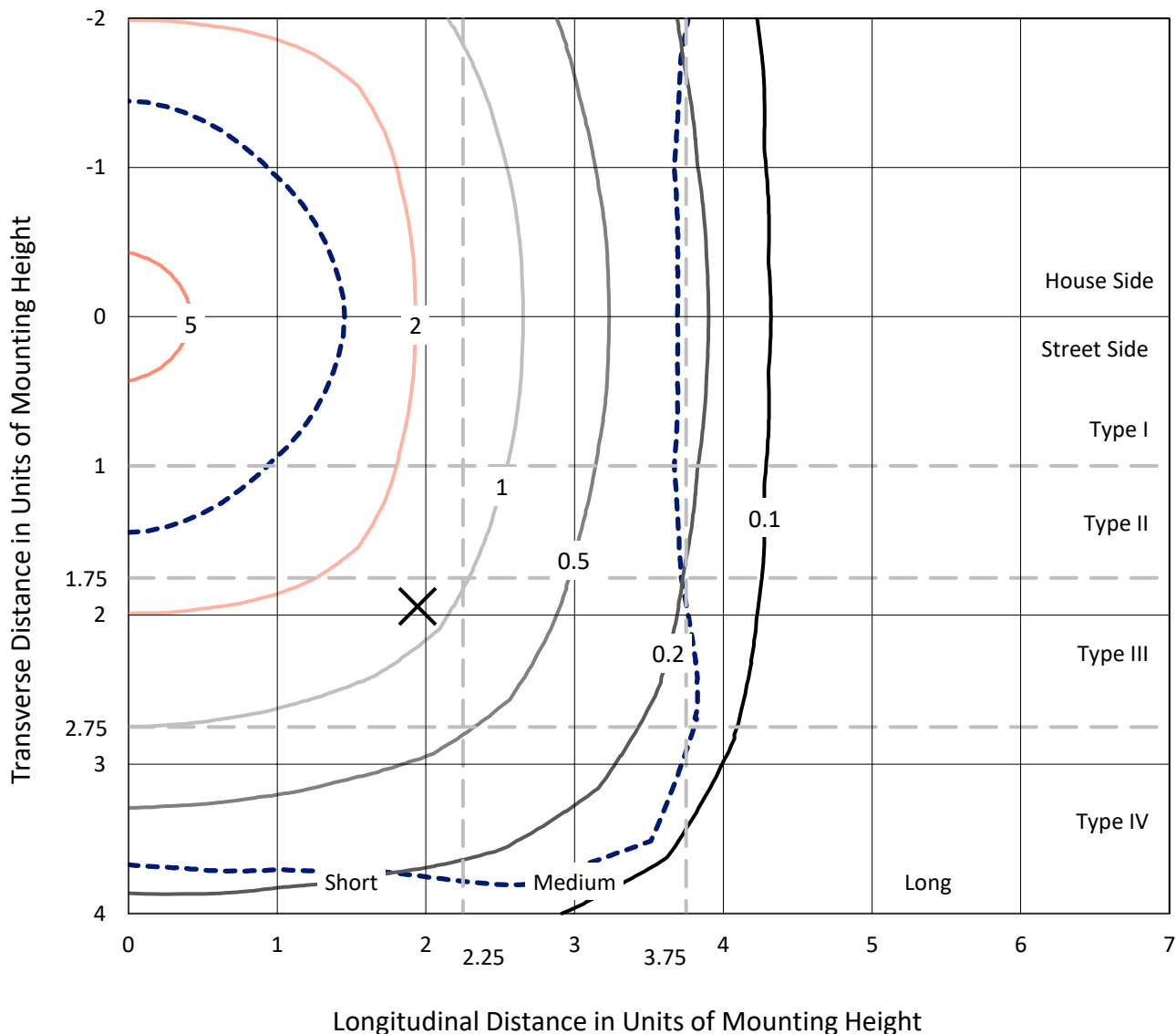
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

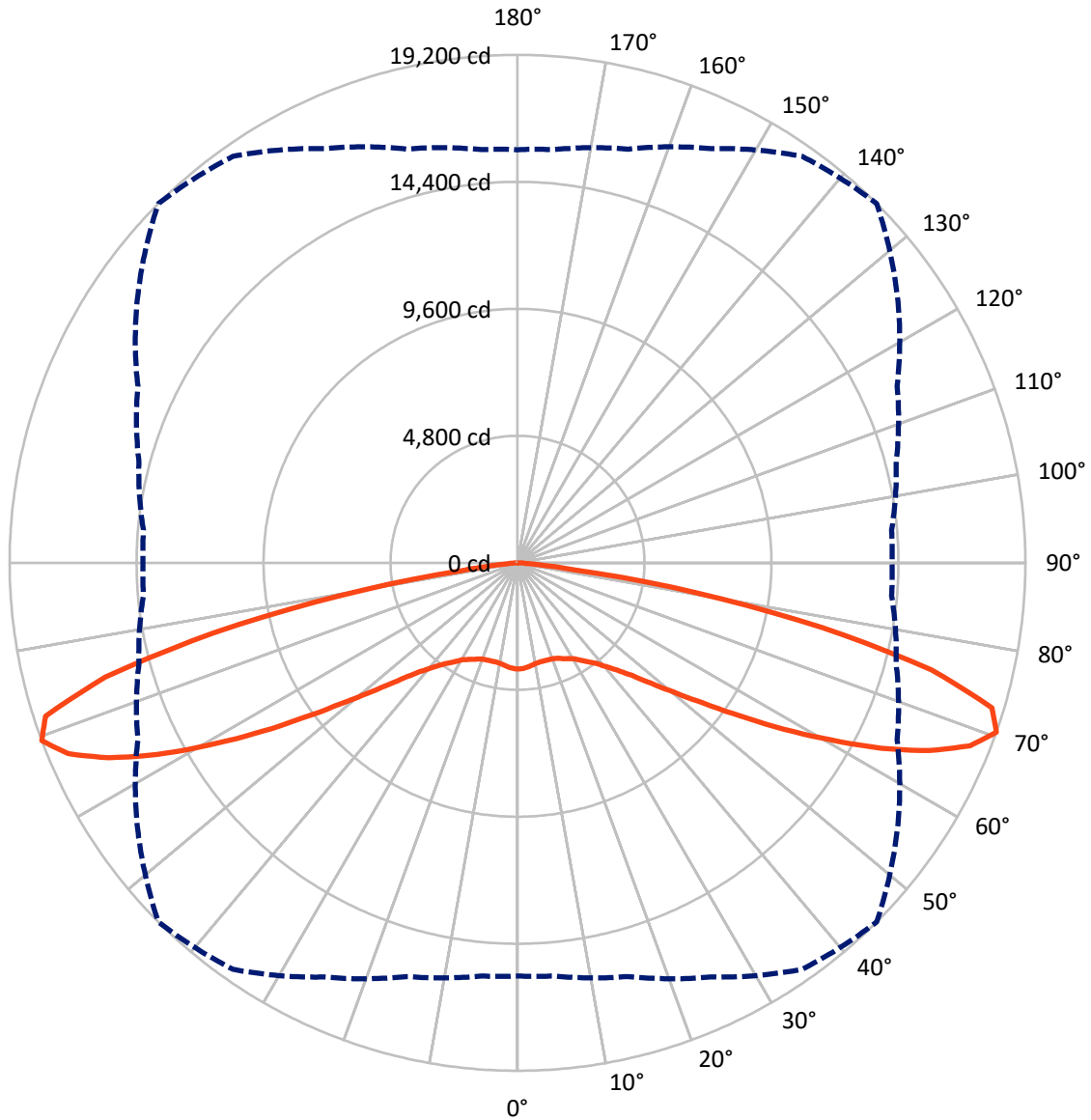
✕ Max cd
 - - - 1/2 Max cd



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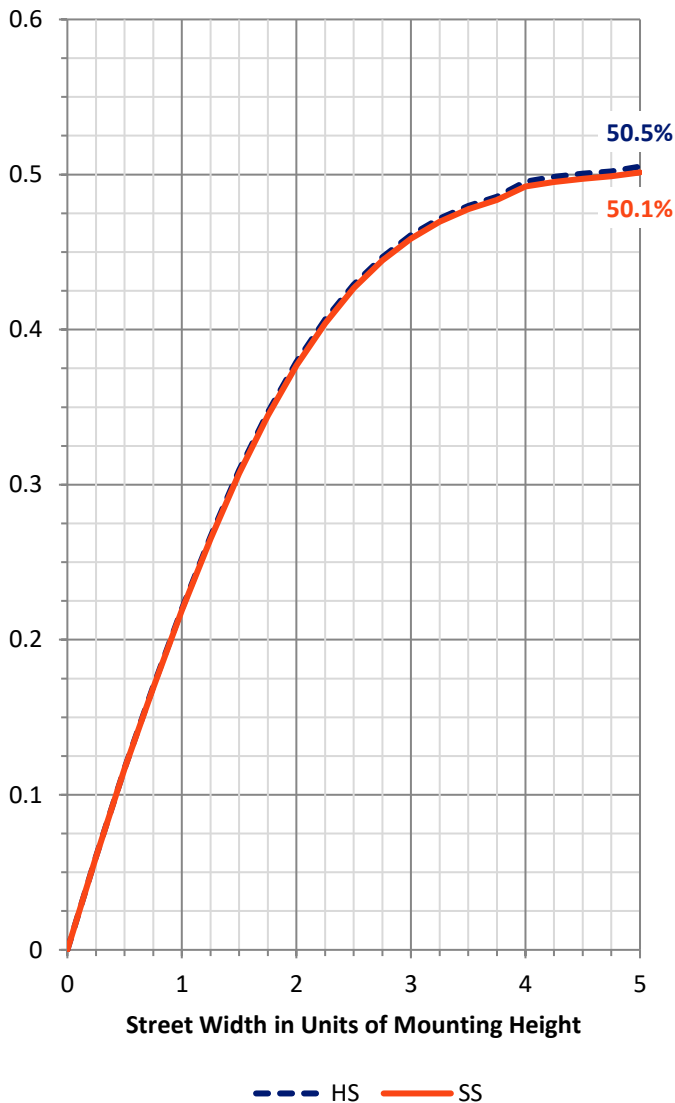
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23713.3	0.0	23713.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23713.3	0.0	23713.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	47426.5	0.0	47426.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.5	0.8
10°-20°	1099.3	2.3
20°-30°	1872.9	3.9
30°-40°	2903.0	6.1
40°-50°	4886.2	10.3
50°-60°	8890.3	18.7
60°-70°	15051.0	31.7
70°-80°	11650.1	24.6
80°-90°	698.1	1.5
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°	47426.5	100.0
0°-180°	47426.5	100.0

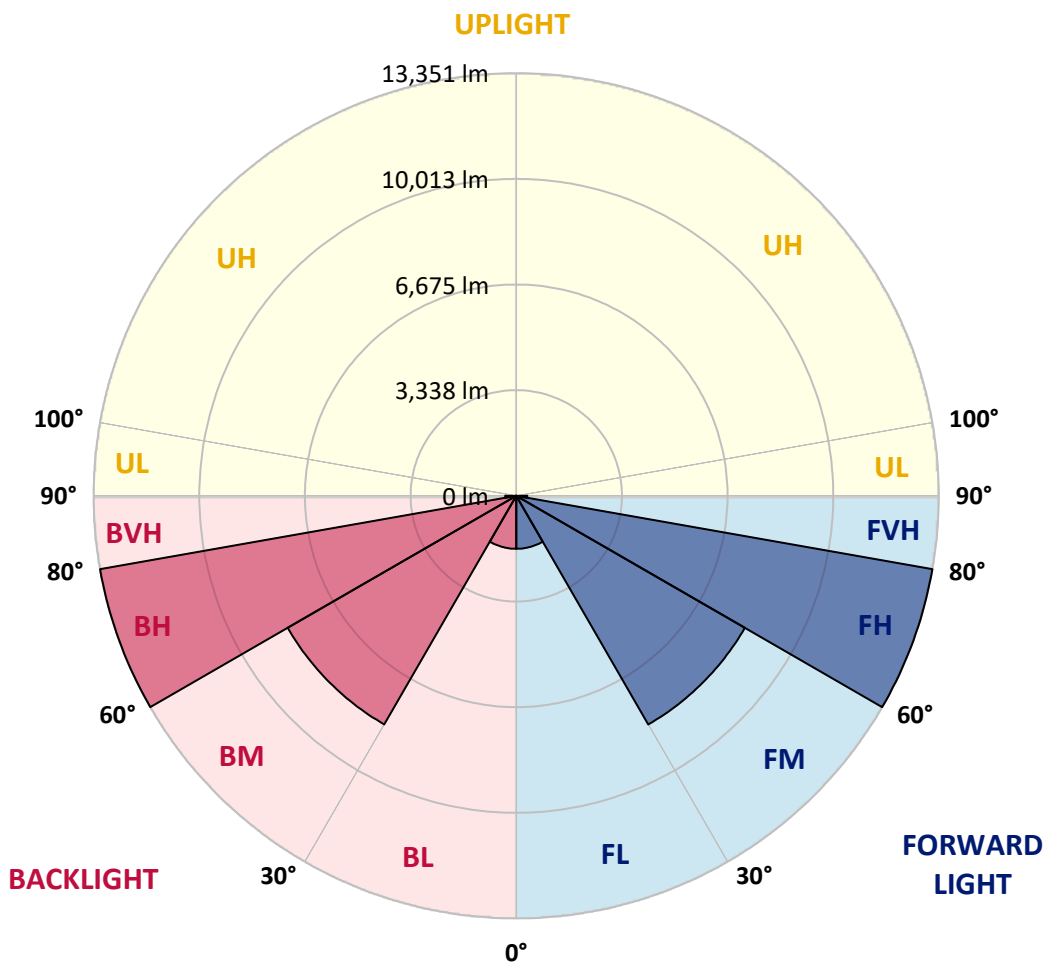


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.9	3.5			
FM (30°-60°)	8339.8	17.6			
FH (60°-80°)	13350.6	28.1			G5
FVH (80°-90°)	349.0	0.7			G3/500
BL (0°-30°)	1673.9	3.5	B3/2500		
BM (30°-60°)	8339.8	17.6	B4/8500		
BH (60°-80°)	13350.6	28.1	B5		G5
BVH (80°-90°)	349.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3	4015.3
2.5°	4005.2	4007.7	4007.7	4002.7	4000.2	4000.2	3997.7	3997.7	4005.2	4007.7	4010.2
5°	3970.1	3970.1	3970.1	3967.7	3962.6	3962.6	3957.7	3957.7	3960.1	3967.7	3962.6
7.5°	3922.6	3927.6	3927.6	3917.5	3910.1	3910.1	3907.5	3910.1	3912.5	3920.1	3917.5
10°	3907.5	3910.1	3897.5	3880.0	3867.4	3859.9	3862.5	3867.4	3880.0	3885.0	3887.5
12.5°	3917.5	3917.5	3895.0	3869.9	3847.4	3837.4	3834.9	3852.5	3875.0	3890.0	3895.0
15°	3930.1	3925.0	3897.5	3865.0	3842.4	3839.9	3837.4	3849.9	3882.5	3912.5	3915.0
17.5°	3937.6	3935.0	3900.1	3859.9	3847.4	3847.4	3844.9	3854.9	3890.0	3927.6	3930.1
20°	3962.6	3955.1	3915.0	3872.5	3862.5	3867.4	3859.9	3872.5	3910.1	3955.1	3965.1
22.5°	4012.7	4005.2	3965.1	3922.6	3917.5	3917.5	3915.0	3927.6	3967.7	4015.3	4022.8
25°	4072.9	4065.3	4027.7	3997.7	4002.7	4012.7	4007.7	4010.2	4042.8	4082.9	4095.4
27.5°	4153.0	4140.5	4107.9	4082.9	4097.9	4097.9	4097.9	4095.4	4115.4	4153.0	4165.6
30°	4250.7	4245.7	4210.6	4208.1	4220.6	4208.1	4208.1	4210.6	4213.2	4248.1	4260.7
32.5°	4378.4	4368.4	4350.9	4345.9	4380.9	4390.9	4355.9	4323.3	4340.8	4375.9	4383.5
35°	4588.8	4573.8	4548.8	4521.2	4548.8	4596.3	4521.2	4496.2	4541.2	4588.8	4593.9
37.5°	4874.4	4866.9	4826.8	4776.7	4774.2	4824.3	4746.6	4744.2	4829.3	4886.9	4894.5
40°	5232.6	5240.1	5190.0	5142.4	5117.3	5157.4	5097.3	5119.8	5202.5	5267.7	5262.6
42.5°	5736.0	5708.5	5630.8	5585.8	5558.2	5543.2	5528.1	5563.2	5655.9	5726.0	5781.1
45°	6324.7	6314.6	6217.0	6161.8	6101.8	6079.3	6074.2	6136.9	6249.6	6334.7	6342.2
47.5°	6991.0	6968.4	6905.8	6848.2	6825.6	6798.1	6773.1	6820.7	6933.4	6993.5	7011.0
50°	7677.3	7682.3	7682.3	7672.3	7694.8	7699.9	7632.2	7649.7	7712.4	7707.3	7702.3
52.5°	8461.3	8488.9	8619.1	8631.6	8739.3	8812.0	8689.2	8616.6	8594.1	8458.8	8468.8
55°	9383.0	9408.1	9603.5	9798.9	10089.5	10212.2	9954.2	9728.8	9568.4	9363.0	9373.0
57.5°	10532.8	10545.3	10730.7	11106.4	11567.3	11855.3	11401.9	10956.1	10630.5	10435.1	10357.4
60°	11770.2	11782.7	12053.2	12511.6	13228.0	13578.6	13017.6	12288.7	11877.9	11579.8	11599.8
62.5°	13255.5	13305.6	13548.6	14179.8	15049.0	15442.3	14698.3	13723.9	13167.9	12797.2	12812.2
65°	14846.1	14931.3	15196.8	15890.6	16692.2	17115.4	16203.7	15079.0	14387.7	13934.4	13982.0
67.5°	15878.1	15953.3	16336.5	17102.9	18102.4	18453.1	17275.8	15965.8	15101.6	14560.6	14460.3
70°	15615.1	15677.7	16188.7	17275.8	18756.2	19199.5	17531.2	15835.5	14818.6	14194.8	14154.8
72.5°	13784.1	13653.8	14400.3	15960.8	18009.7	18753.6	16727.2	14462.8	13182.9	12541.7	12466.5
75°	9135.1	9418.1	10520.2	12358.8	15236.8	16158.6	14277.5	11612.4	10001.8	9468.2	9385.6
77.5°	3053.4	3271.3	4250.7	7006.0	10387.5	11772.7	10402.6	7594.7	5372.8	4328.4	4348.4
80°	809.0	799.0	1034.5	1926.2	4488.7	6818.2	5225.0	2572.5	1407.7	1019.5	966.9
82.5°	290.6	325.6	418.3	533.5	1189.8	2119.1	1495.4	721.4	528.5	390.7	378.2
85°	127.7	125.2	180.3	212.9	298.1	395.8	350.7	305.6	268.0	177.9	165.3
87.5°	27.6	27.6	42.6	32.5	52.6	52.6	65.1	77.6	80.1	52.6	42.6
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)