

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: P459269

Luminaire Tested: **GALN-SA7C-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459269
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-SA7C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47742 lumens
Efficiency: N/A
Efficacy: 126.6 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

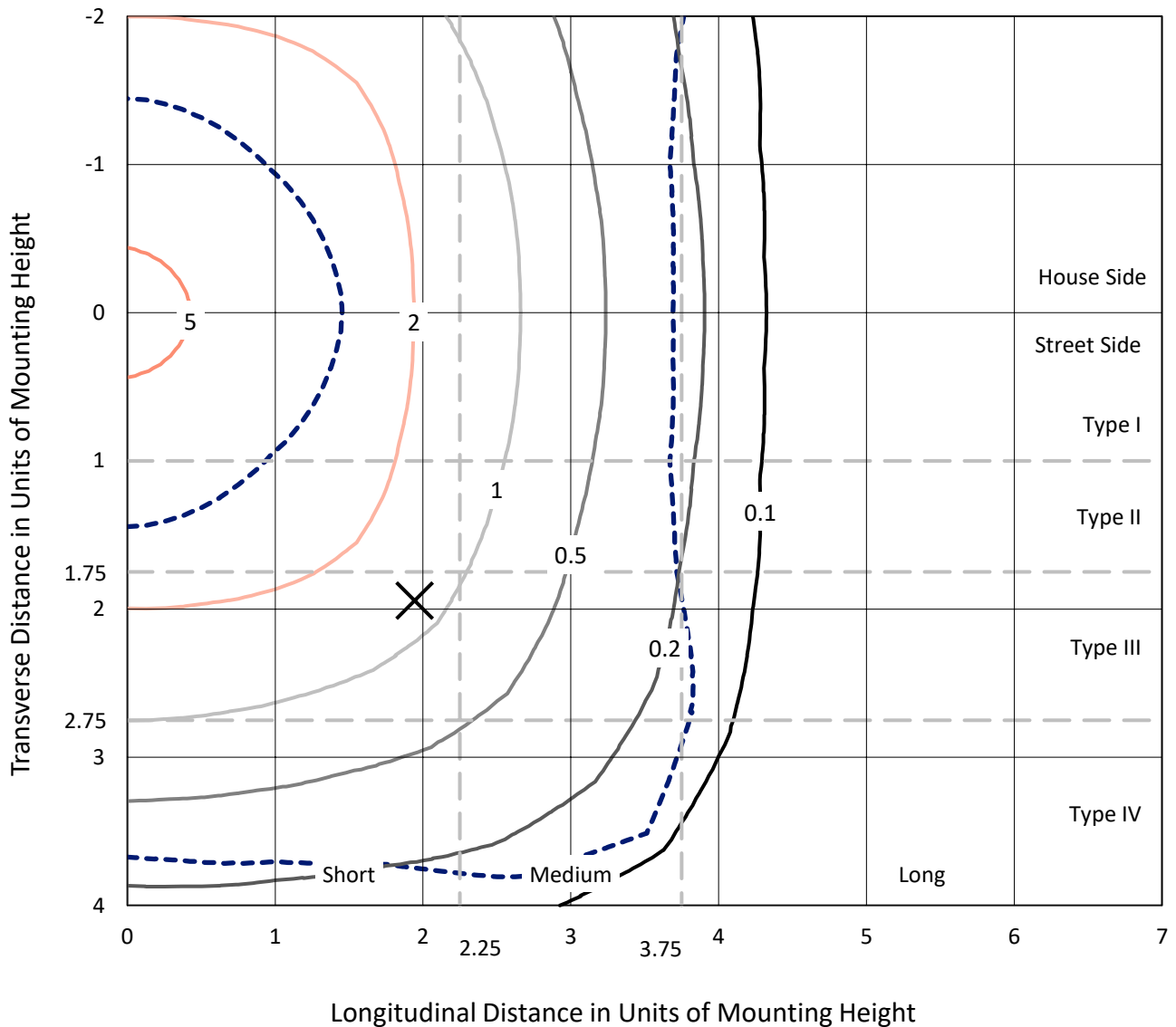
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

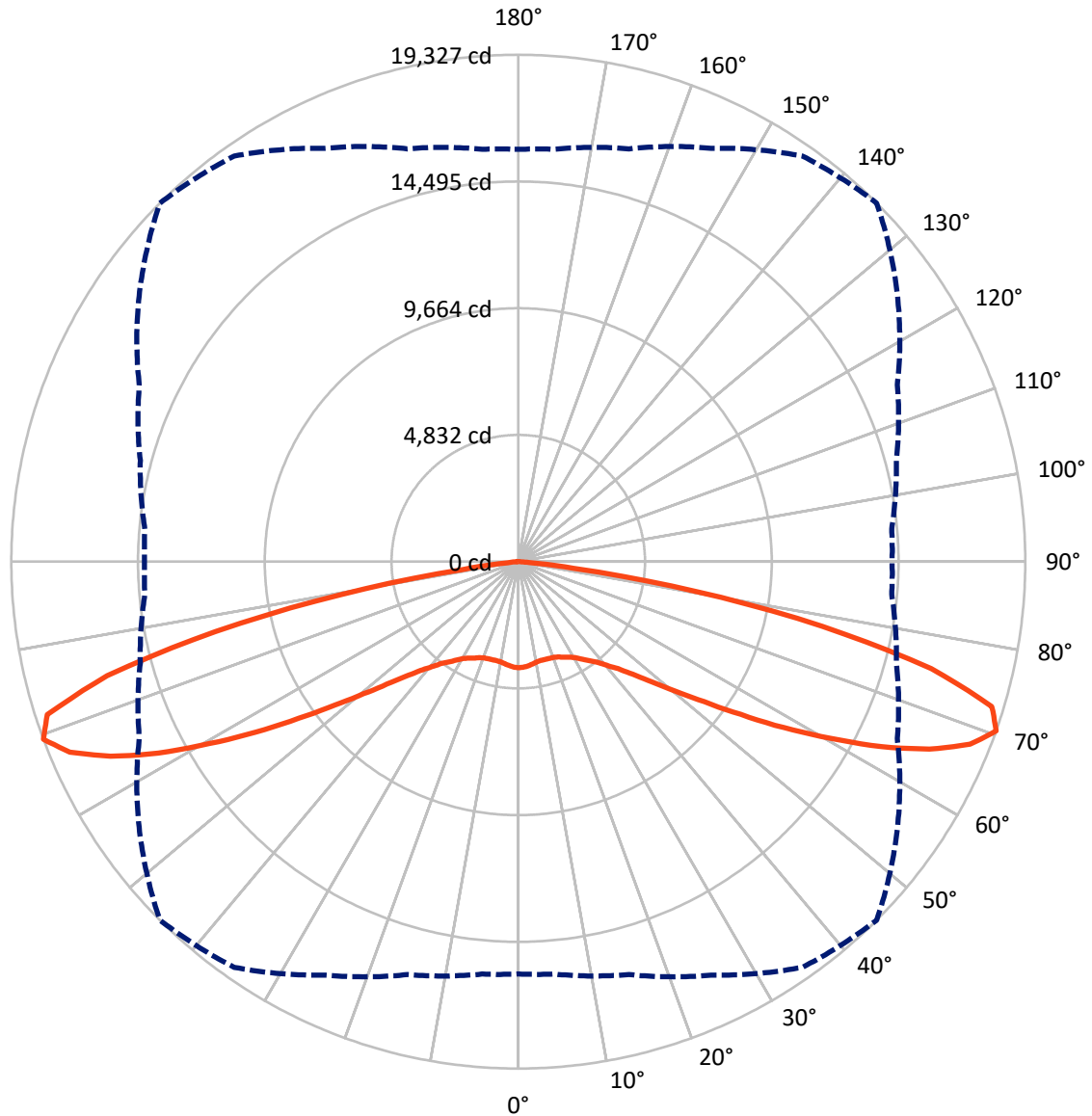
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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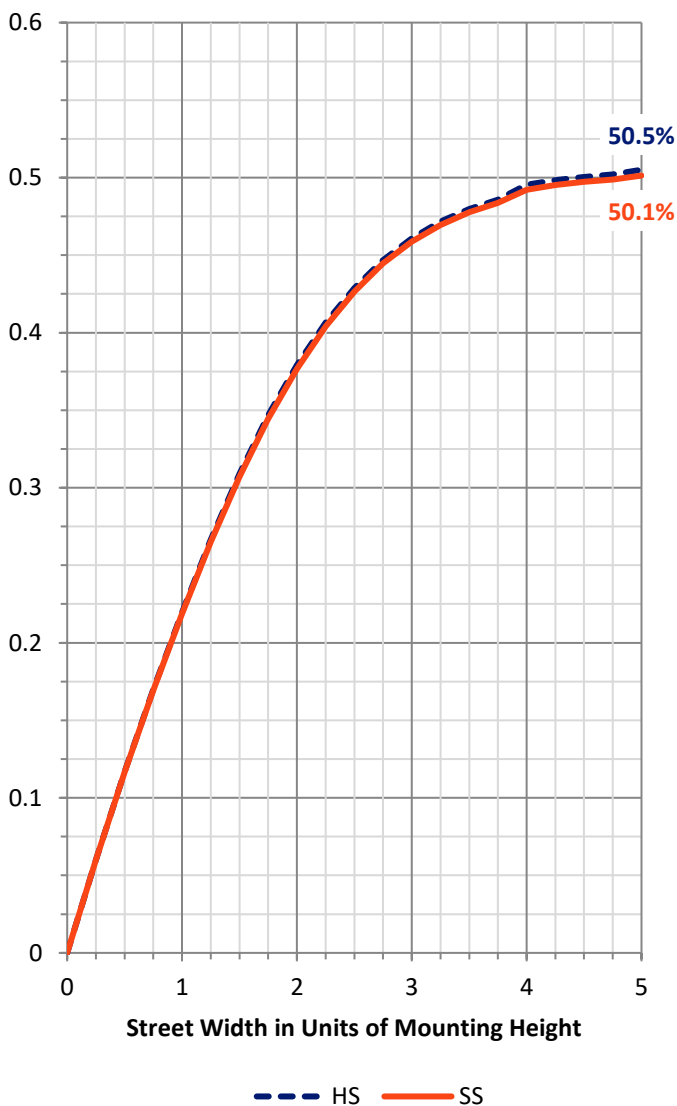
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23871.0	0.0	23871.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23871.0	0.0	23871.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	47742.0	0.0	47742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	0.8
10°-20°	1106.6	2.3
20°-30°	1885.4	3.9
30°-40°	2922.4	6.1
40°-50°	4918.7	10.3
50°-60°	8949.4	18.7
60°-70°	15151.1	31.7
70°-80°	11727.6	24.6
80°-90°	702.7	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°	47742.0	100.0
0°-180°	47742.0	100.0



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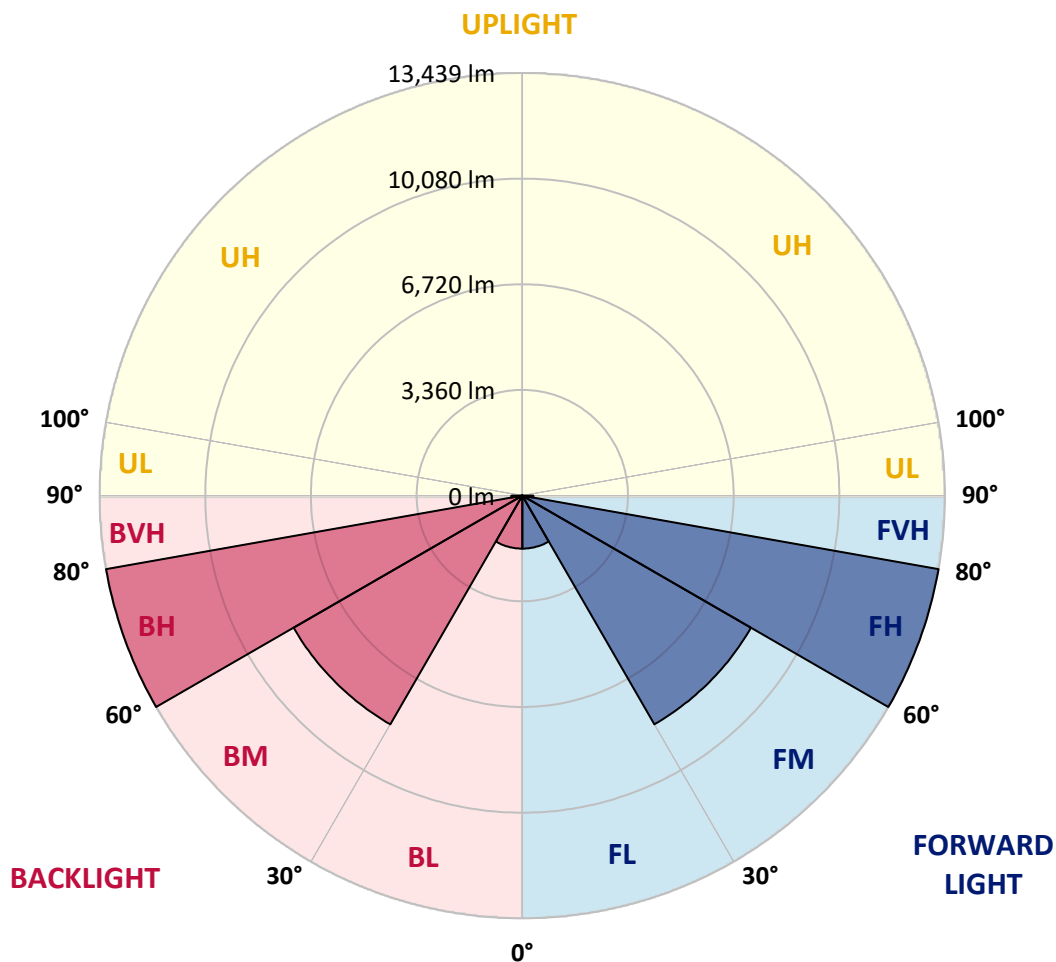
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1685.0	3.5			
FM	(30°-60°)	8395.3	17.6			
FH	(60°-80°)	13439.4	28.1			G5
FVH	(80°-90°)	351.4	0.7			G3/500
BL	(0°-30°)	1685.0	3.5	B3/2500		
BM	(30°-60°)	8395.3	17.6	B4/8500		
BH	(60°-80°)	13439.4	28.1	B5		G5
BVH	(80°-90°)	351.4	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°	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9	4041.9
2.5°	4031.9	4034.4	4034.4	4029.3	4026.8	4026.8	4024.3	4024.3	4031.9	4034.4	4036.9
5°	3996.6	3996.6	3996.6	3994.0	3989.0	3989.0	3984.0	3984.0	3986.5	3994.0	3989.0
7.5°	3948.6	3953.7	3953.7	3943.6	3936.0	3936.0	3933.5	3936.0	3938.6	3946.1	3943.6
10°	3933.5	3936.0	3923.4	3905.8	3893.2	3885.6	3888.1	3893.2	3905.8	3910.8	3913.3
12.5°	3943.6	3943.6	3920.9	3895.7	3873.0	3862.9	3860.4	3878.0	3900.7	3915.9	3920.9
15°	3956.2	3951.2	3923.4	3890.7	3868.0	3865.4	3862.9	3875.5	3908.3	3938.6	3941.1
17.5°	3963.8	3961.3	3926.0	3885.6	3873.0	3873.0	3870.5	3880.6	3915.9	3953.7	3956.2
20°	3989.0	3981.4	3941.1	3898.2	3888.1	3893.2	3885.6	3898.2	3936.0	3981.4	3991.5
22.5°	4039.4	4031.9	3991.5	3948.6	3943.6	3943.6	3941.1	3953.7	3994.0	4041.9	4049.5
25°	4099.9	4092.4	4054.6	4024.3	4029.3	4039.4	4034.4	4036.9	4069.7	4110.0	4122.6
27.5°	4180.6	4168.0	4135.2	4110.0	4125.2	4125.2	4125.2	4122.6	4142.8	4180.6	4193.2
30°	4279.0	4273.9	4238.6	4236.1	4248.7	4236.1	4236.1	4238.6	4241.1	4276.4	4289.1
32.5°	4407.6	4397.5	4379.8	4374.8	4410.1	4420.2	4384.9	4352.1	4369.7	4405.0	4412.6
35°	4619.4	4604.2	4579.0	4551.3	4579.0	4626.9	4551.3	4526.1	4571.5	4619.4	4624.4
37.5°	4906.8	4899.3	4858.9	4808.5	4806.0	4856.4	4778.2	4775.7	4861.4	4919.4	4927.0
40°	5267.4	5275.0	5224.5	5176.6	5151.4	5191.7	5131.2	5153.9	5237.1	5302.7	5297.6
42.5°	5774.2	5746.5	5668.3	5622.9	5595.2	5580.1	5564.9	5600.2	5693.5	5764.1	5819.6
45°	6366.8	6356.7	6258.3	6202.9	6142.3	6119.7	6114.6	6177.6	6291.1	6376.8	6384.4
47.5°	7037.5	7014.8	6951.7	6893.7	6871.1	6843.3	6818.1	6866.0	6979.5	7040.0	7057.6
50°	7728.4	7733.4	7733.4	7723.3	7746.0	7751.1	7683.0	7700.6	7763.7	7758.6	7753.6
52.5°	8517.6	8545.3	8676.4	8689.0	8797.5	8870.6	8747.0	8673.9	8651.2	8515.1	8525.2
55°	9445.5	9470.7	9667.4	9864.1	10156.6	10280.1	10020.4	9793.5	9632.1	9425.3	9435.4
57.5°	10602.9	10615.5	10802.1	11180.3	11644.2	11934.2	11477.8	11029.0	10701.2	10504.5	10426.4
60°	11848.5	11861.1	12133.4	12594.8	13316.0	13669.0	13104.2	12370.4	11956.9	11656.8	11677.0
62.5°	13343.7	13394.1	13638.7	14274.1	15149.1	15545.0	14796.1	13815.2	13255.5	12882.3	12897.4
65°	14944.9	15030.6	15297.9	15996.3	16803.2	17229.3	16311.5	15179.4	14483.4	14027.0	14074.9
67.5°	15983.7	16059.4	16445.1	17216.7	18222.8	18575.8	17390.7	16072.0	15202.0	14657.4	14556.5
70°	15719.0	15782.0	16296.4	17390.7	18880.9	19327.2	17647.9	15940.8	14917.1	14289.3	14248.9
72.5°	13875.7	13744.6	14496.0	16066.9	18129.5	18878.4	16838.5	14559.1	13270.6	12625.1	12549.4
75°	9195.9	9480.8	10590.2	12441.0	15338.2	16266.1	14372.5	11689.6	10068.3	9531.2	9448.0
77.5°	3073.7	3293.1	4279.0	7052.6	10456.6	11851.0	10471.7	7645.2	5408.6	4357.1	4377.3
80°	814.4	804.4	1041.4	1939.0	4518.5	6863.5	5259.8	2589.6	1417.1	1026.2	973.3
82.5°	292.5	327.8	421.1	537.1	1197.7	2133.2	1505.3	726.2	532.0	393.4	380.7
85°	128.6	126.1	181.5	214.3	300.1	398.4	353.0	307.6	269.8	179.0	166.4
87.5°	27.7	27.7	42.9	32.8	53.0	53.0	65.6	78.2	80.7	53.0	42.9
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)