

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: P532415

Luminaire Tested: **GALN-SA7D-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32438 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

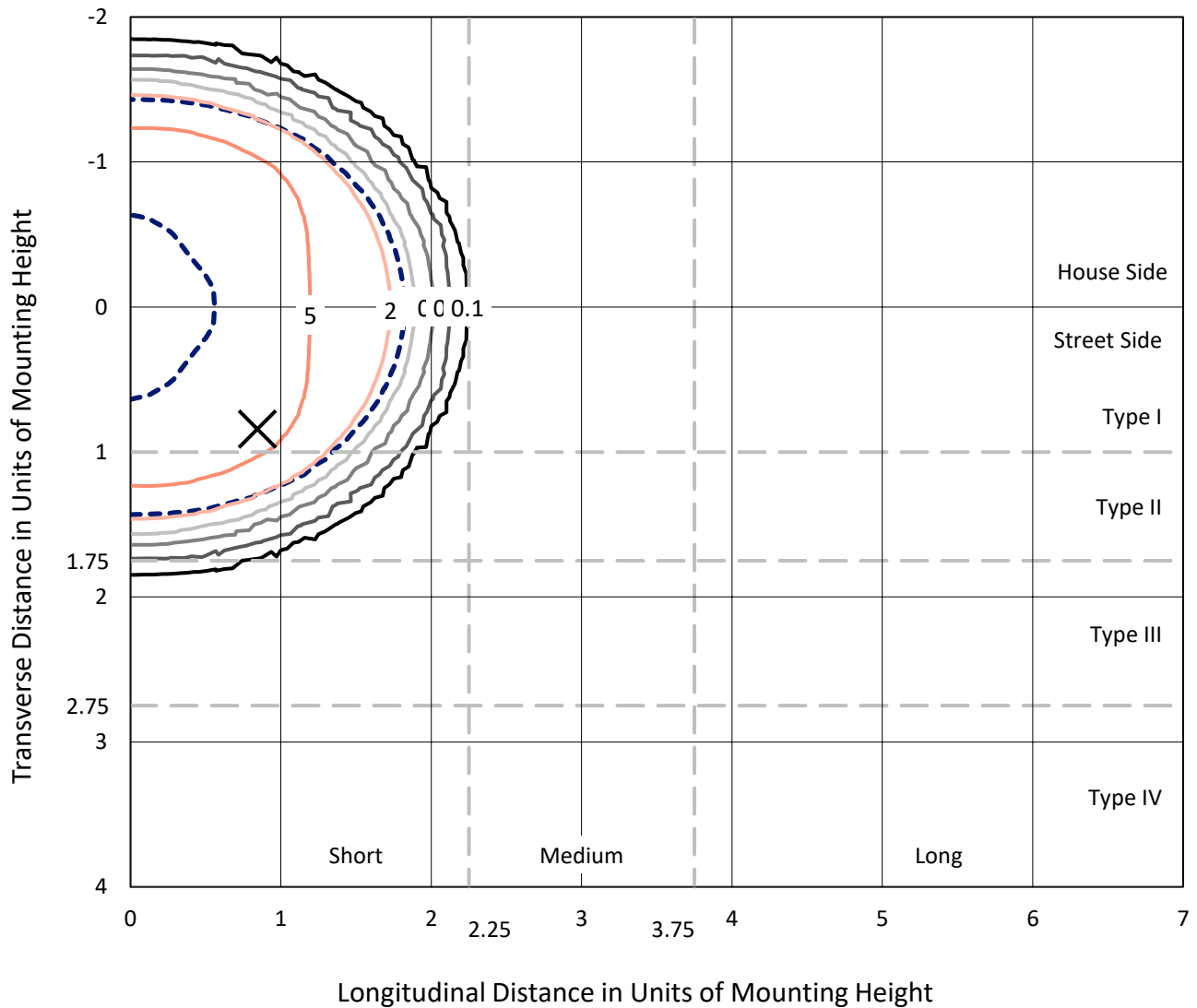
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

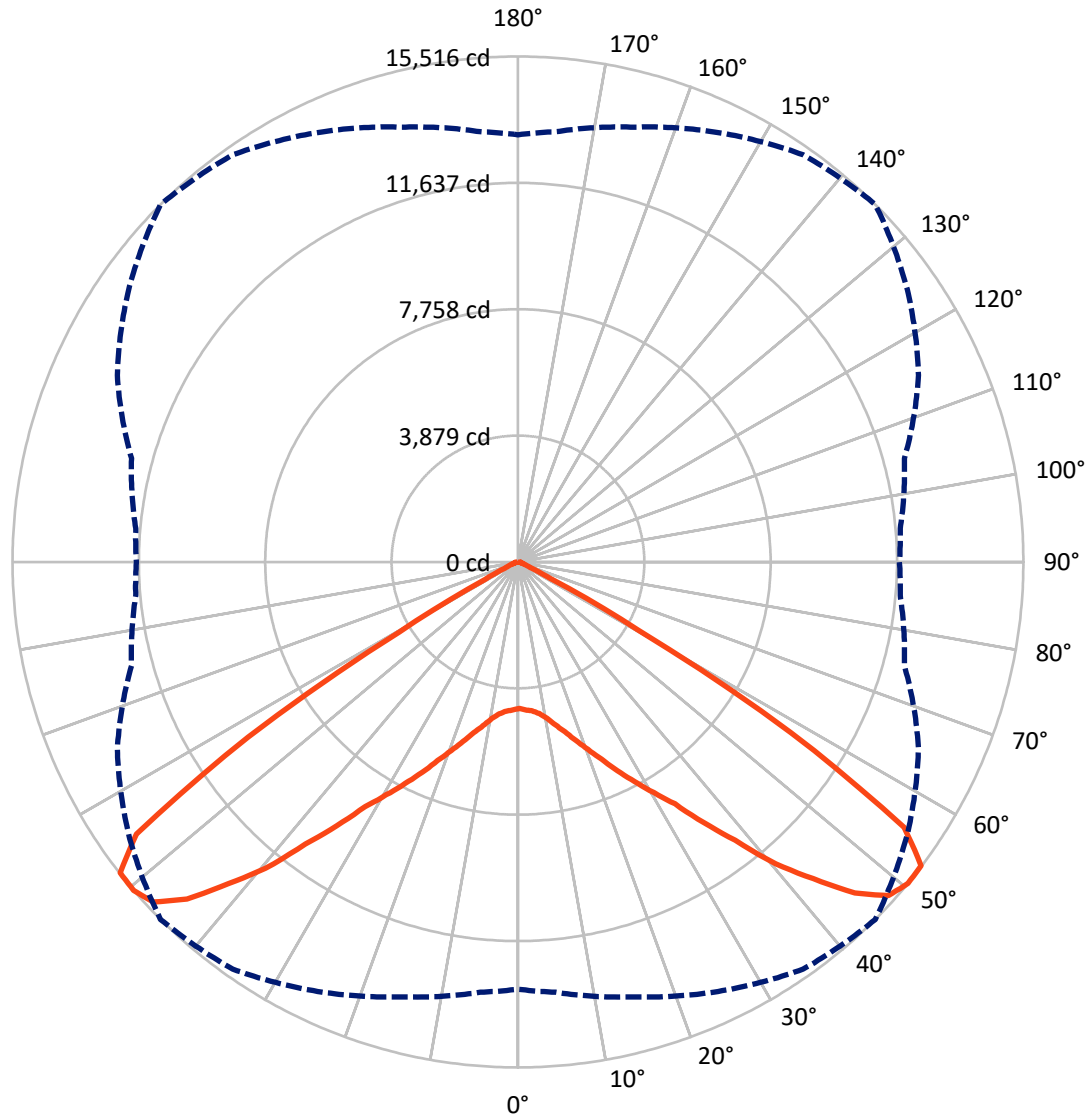
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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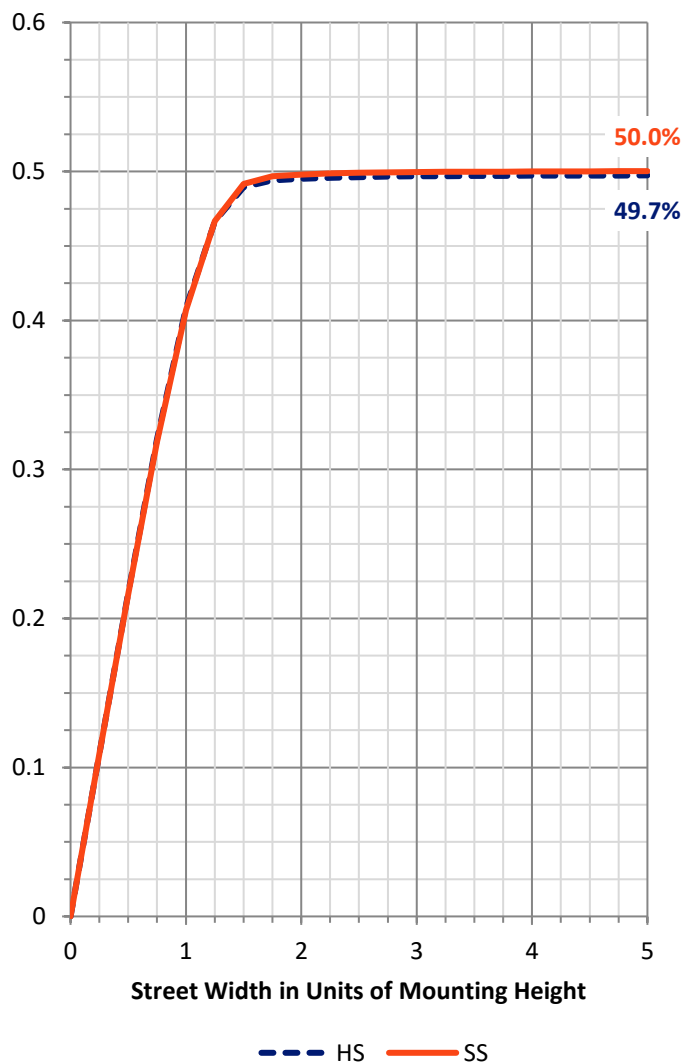
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16219.0	0.0	16219.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16219.0	0.0	16219.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32438.0	0.0	32438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	1.4
10°-20°	1542.0	4.8
20°-30°	3149.4	9.7
30°-40°	6005.8	18.5
40°-50°	10120.7	31.2
50°-60°	9651.9	29.8
60°-70°	1347.4	4.2
70°-80°	128.9	0.4
80°-90°	44.5	0.1
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°	32438.0	100.0
0°-180°	32438.0	100.0

Coefficient of Utilization



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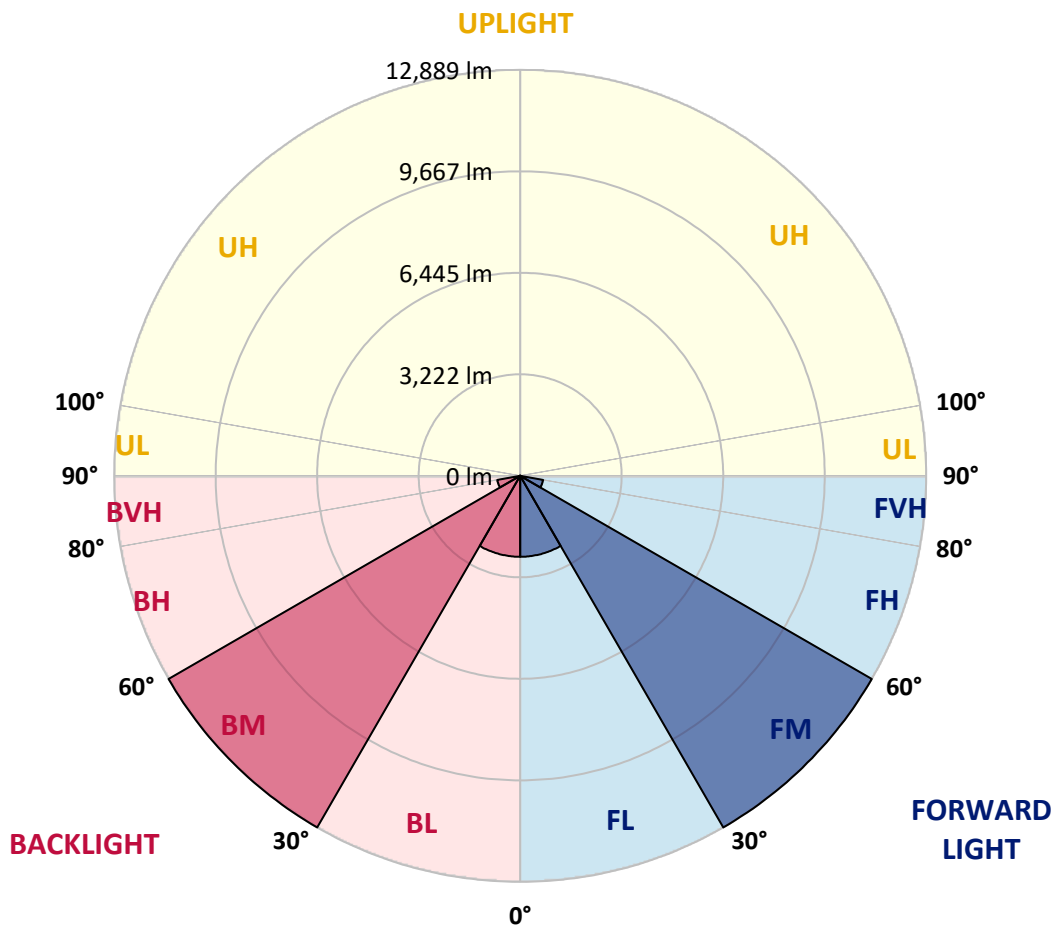
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.4	7.9			
FM (30°-60°)	12889.2	39.7			
FH (60°-80°)	738.1	2.3			G1/1800
FVH (80°-90°)	22.3	0.1			G1/100
BL (0°-30°)	2569.4	7.9	B4/5000		
BM (30°-60°)	12889.2	39.7	B5		
BH (60°-80°)	738.1	2.3	B2/1000		G1/1800
BVH (80°-90°)	22.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2	4497.2
2.5°	4480.8	4480.8	4475.3	4519.0	4497.2	4546.3	4540.8	4557.2	4573.6	4568.1	4611.8
5°	4442.6	4437.1	4437.1	4486.3	4535.4	4590.0	4639.1	4671.8	4726.4	4726.4	4781.0
7.5°	4480.8	4453.5	4491.7	4513.5	4606.3	4699.1	4781.0	4846.5	4972.0	5015.7	4999.3
10°	4491.7	4524.5	4551.7	4617.2	4731.9	4873.8	4944.7	5108.4	5250.3	5348.6	5370.4
12.5°	4562.7	4611.8	4688.2	4846.5	4950.2	5135.7	5234.0	5392.2	5588.7	5697.9	5774.3
15°	4699.1	4715.5	4813.7	5015.7	5239.4	5408.6	5561.4	5676.0	5867.1	5992.6	5998.0
17.5°	4873.8	4944.7	5081.1	5272.2	5506.9	5757.9	5878.0	6003.5	6074.5	6243.6	6281.9
20°	5223.1	5234.0	5365.0	5616.0	5910.7	6139.9	6227.3	6292.8	6265.5	6440.1	6472.9
22.5°	5550.5	5561.4	5725.2	6063.5	6380.1	6576.6	6614.8	6576.6	6494.7	6620.2	6631.1
25°	5883.4	5981.7	6101.7	6440.1	6833.1	7095.1	7100.5	6996.8	6827.6	6849.5	6904.0
27.5°	6401.9	6472.9	6598.4	6909.5	7340.7	7635.4	7586.2	7460.7	7242.4	7258.8	7242.4
30°	7007.7	7073.2	7176.9	7575.3	7891.9	8213.9	8284.8	8164.8	7837.3	7766.4	7848.2
32.5°	7739.1	7831.8	8022.9	8388.5	8656.0	8852.4	8901.6	8857.9	8552.3	8525.0	8579.6
35°	8628.7	8754.2	8928.9	9250.9	9469.2	9823.9	9823.9	9676.6	9398.2	9431.0	9425.5
37.5°	9567.4	9753.0	10025.9	10353.3	10648.0	10839.1	10779.0	10653.5	10375.2	10304.2	10375.2
40°	10746.3	10839.1	11182.9	11608.6	11968.8	12187.1	11930.6	11657.7	10991.9	11095.6	11286.6
42.5°	11821.4	11968.8	12230.8	12700.1	13109.5	13289.6	12983.9	12443.6	11641.3	11559.5	11701.4
45°	12738.3	12896.6	13240.5	13911.8	14342.9	14501.2	13824.4	12951.2	12034.3	11826.9	11886.9
47.5°	13349.6	13431.5	13911.8	14550.3	14943.3	15303.5	14332.0	13300.5	12219.9	11826.9	11805.1
50°	13114.9	13256.8	13819.0	14544.9	15259.8	15516.3	14588.5	13567.9	12279.9	11777.8	11712.3
52.5°	11646.8	11892.4	12520.0	13497.0	14577.6	15494.5	14943.3	13480.6	12258.1	11826.9	11925.1
55°	8104.7	8110.2	8874.3	10315.1	12225.3	14386.6	14424.8	13578.8	12400.0	12132.5	12138.0
57.5°	3258.3	3422.0	4006.0	5452.3	7215.1	9878.5	11745.0	12596.4	12416.3	12350.8	12520.0
60°	824.1	829.6	1009.7	1539.1	2537.8	4235.2	6150.9	8323.0	9583.8	10014.9	10075.0
62.5°	420.2	425.7	469.4	545.8	693.1	1135.2	2019.4	3203.7	4557.2	5244.9	5425.0
65°	343.8	343.8	371.1	409.3	414.8	436.6	523.9	747.7	1086.1	1233.4	1249.8
67.5°	262.0	262.0	283.8	305.6	316.5	311.1	300.2	311.1	376.6	360.2	349.3
70°	163.7	169.2	180.1	201.9	212.9	218.3	223.8	234.7	267.4	278.3	267.4
72.5°	98.2	98.2	103.7	120.1	136.4	147.4	163.7	174.6	191.0	218.3	212.9
75°	43.7	43.7	54.6	71.0	87.3	103.7	120.1	136.4	147.4	163.7	169.2
77.5°	10.9	16.4	27.3	49.1	65.5	87.3	109.2	125.5	136.4	136.4	131.0
80°	5.5	5.5	21.8	38.2	71.0	92.8	120.1	131.0	147.4	136.4	120.1
82.5°	5.5	5.5	21.8	38.2	65.5	92.8	125.5	141.9	152.8	136.4	114.6
85°	0.0	5.5	16.4	32.7	54.6	65.5	54.6	38.2	21.8	21.8	16.4
87.5°	0.0	0.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)