

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: P533113

Luminaire Tested: **GALN-SA8C-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27585 lumens
Efficiency: N/A
Efficacy: 64.3 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

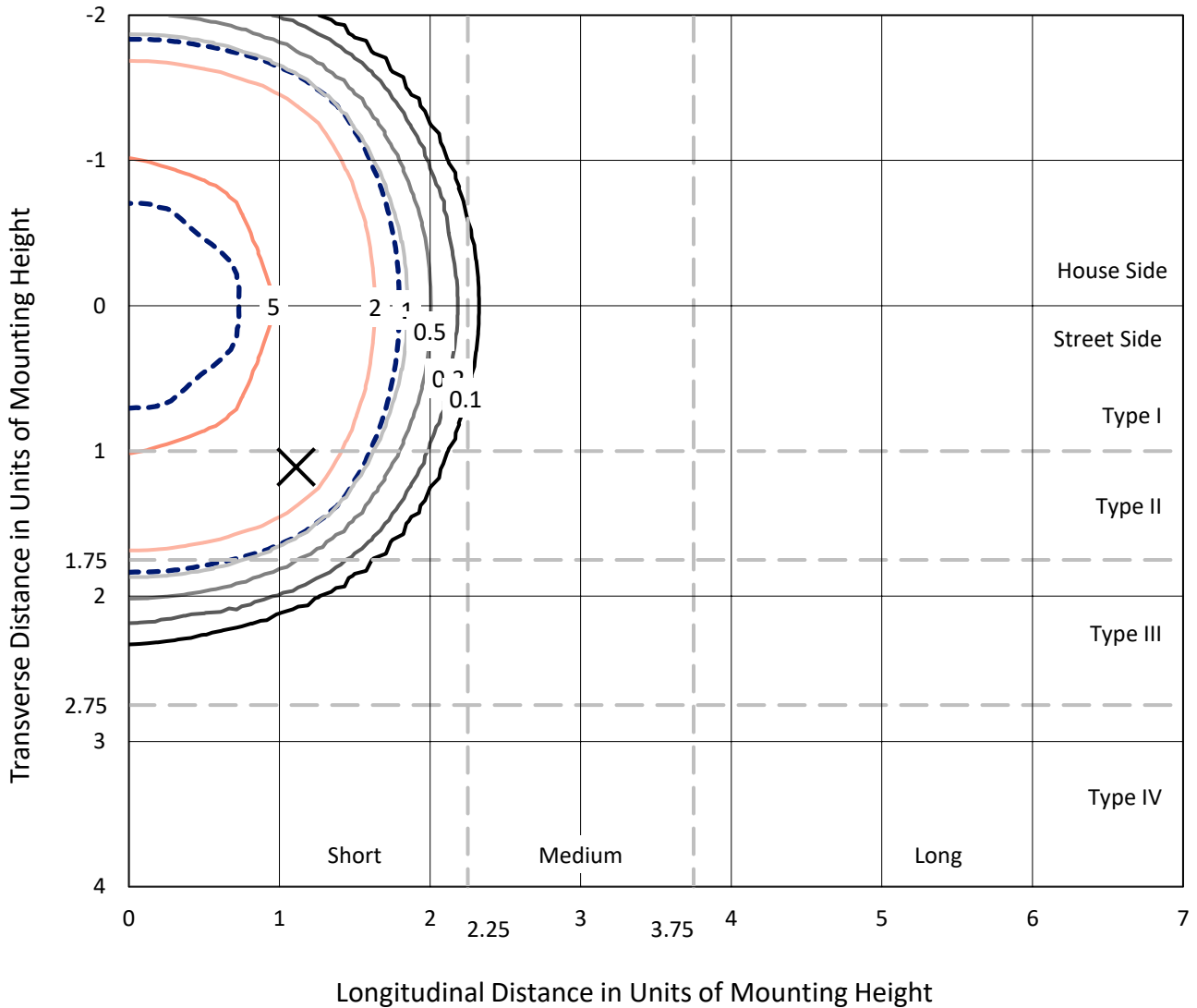
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

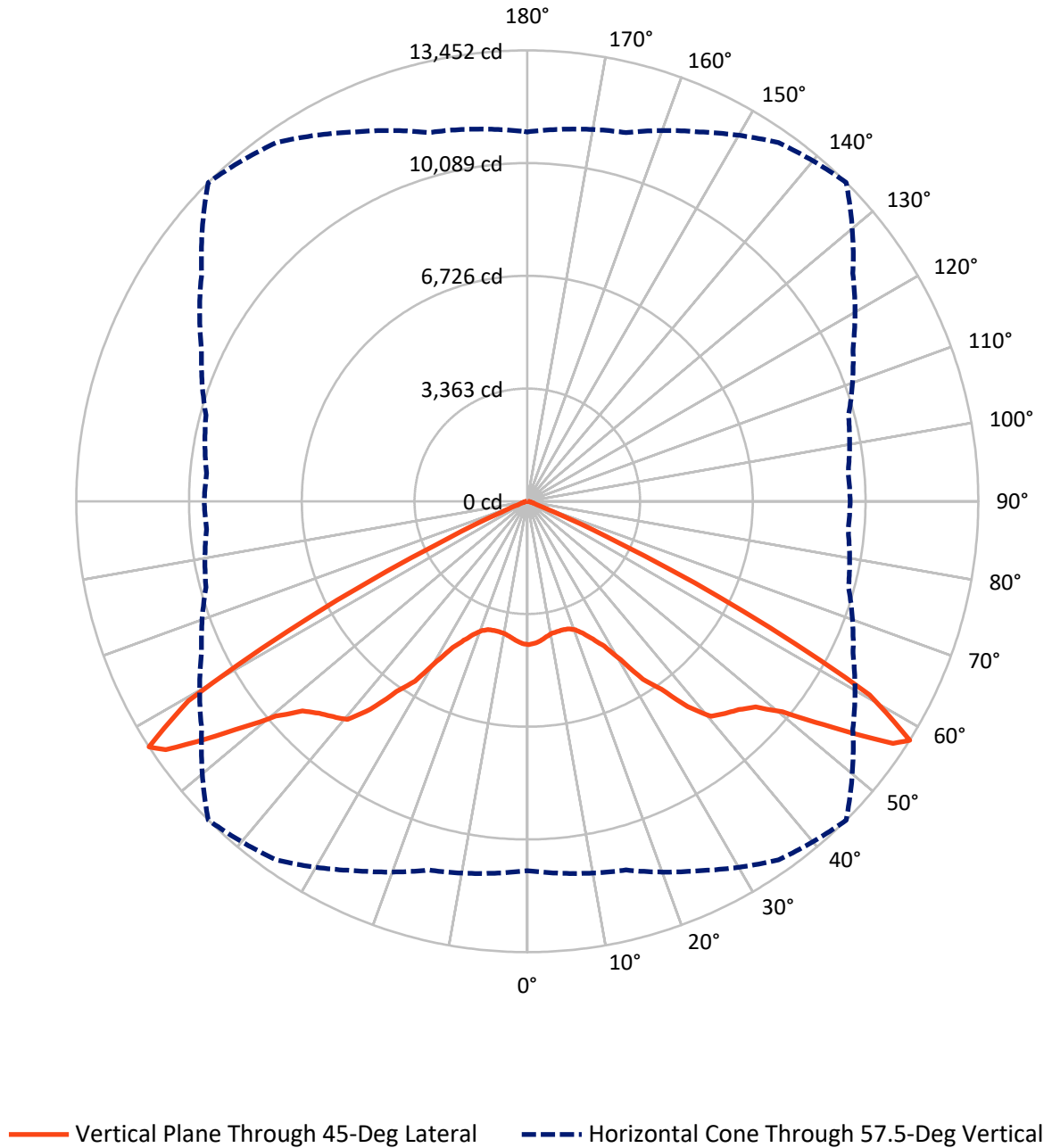
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13792.5	0.0	13792.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13792.5	0.0	13792.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27585.0	0.0	27585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.4
10°-20°	1136.5	4.1
20°-30°	2097.8	7.6
30°-40°	4125.7	15.0
40°-50°	6719.6	24.4
50°-60°	9583.0	34.7
60°-70°	3317.9	12.0
70°-80°	178.0	0.6
80°-90°	33.4	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°	27585.0	100.0
0°-180°	27585.0	100.0

Coefficient of Utilization

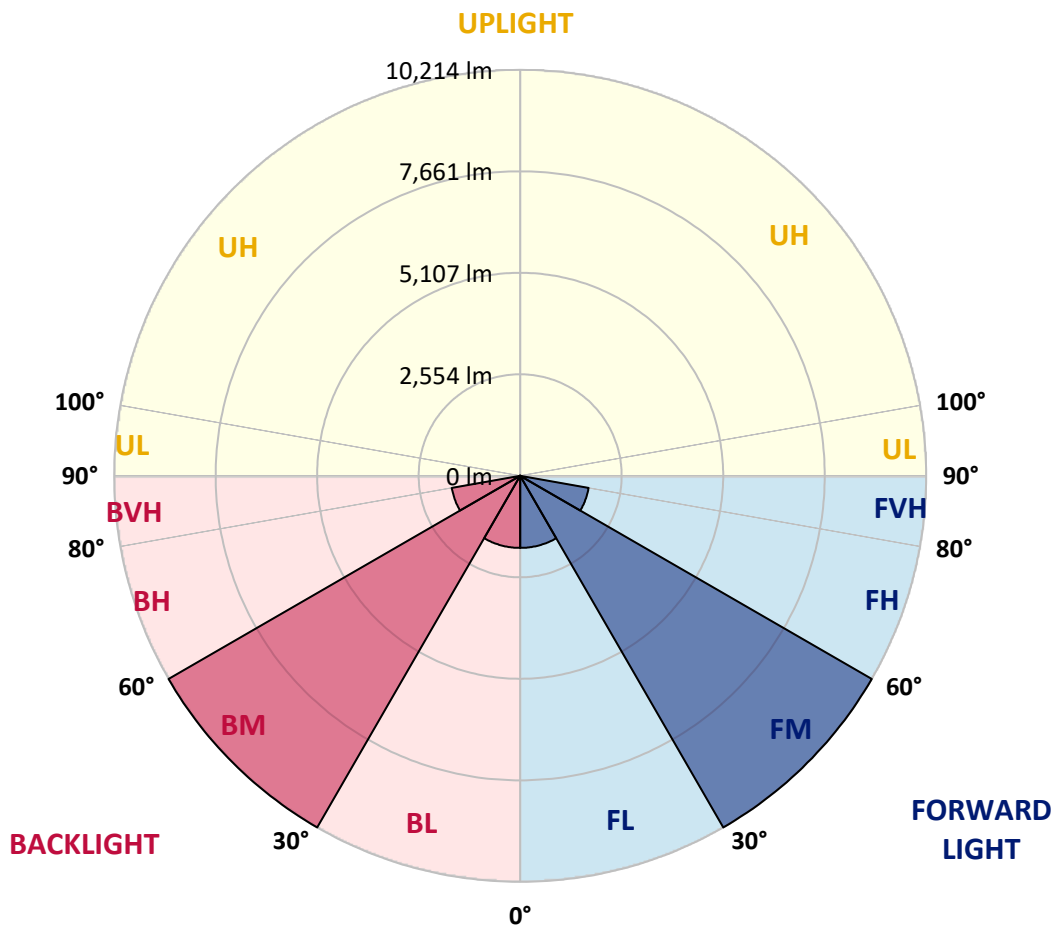


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.8	6.6			
FM (30°-60°)	10214.1	37.0			
FH (60°-80°)	1747.9	6.3			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1813.8	6.6	B3/2500		
BM (30°-60°)	10214.1	37.0	B5		
BH (60°-80°)	1747.9	6.3	B3/2500		G1/1800
BVH (80°-90°)	16.7	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°	4278.7	4278.7	4278.7	4278.7	4278.7	4278.7	4278.7	4278.7	4278.7	4278.7	4278.7
2.5°	4267.2	4290.2	4261.5	4250.0	4244.2	4244.2	4227.0	4227.0	4221.2	4227.0	4204.0
5°	4198.2	4221.2	4221.2	4215.5	4181.0	4175.2	4158.0	4146.5	4152.2	4129.2	4146.5
7.5°	4129.2	4146.5	4123.4	4117.7	4106.2	4083.2	4077.4	4025.7	4031.4	4031.4	4042.9
10°	4117.7	4111.9	4077.4	4048.7	4014.2	4008.4	3991.2	3979.7	3979.7	3973.9	3991.2
12.5°	4117.7	4088.9	4083.2	4019.9	3962.4	3985.4	3939.4	3910.7	3950.9	3962.4	3985.4
15°	4111.9	4140.7	4042.9	4014.2	3973.9	3979.7	3939.4	3910.7	3933.7	3945.2	3962.4
17.5°	4146.5	4129.2	4100.4	4042.9	4025.7	4002.7	3950.9	3927.9	3927.9	3956.7	3962.4
20°	4238.5	4192.5	4134.9	4106.2	4123.4	4094.7	4031.4	3945.2	3968.2	3991.2	4008.4
22.5°	4324.7	4290.2	4250.0	4232.7	4330.5	4284.5	4175.2	4077.4	4042.9	4083.2	4111.9
25°	4491.5	4491.5	4416.7	4439.7	4549.0	4554.8	4428.2	4255.7	4232.7	4250.0	4261.5
27.5°	4830.8	4848.1	4784.8	4807.8	4853.8	4894.1	4784.8	4641.0	4589.3	4583.5	4600.8
30°	5198.9	5233.4	5227.6	5325.4	5457.7	5480.7	5319.6	5083.9	4928.6	4899.8	4922.8
32.5°	5682.0	5699.2	5687.7	5802.7	6159.3	6326.1	5906.2	5572.7	5365.7	5417.4	5365.7
35°	6590.6	6573.4	6446.8	6469.8	6763.1	6883.9	6481.3	6268.6	6170.8	6274.3	6251.3
37.5°	7372.7	7309.5	7206.0	7355.5	7660.3	7769.6	7349.7	6975.9	6797.6	6970.2	7044.9
40°	8034.1	7873.1	7729.3	7878.8	8287.1	8436.7	7821.3	7516.5	7447.5	7574.0	7735.1
42.5°	8592.0	8488.4	8298.7	8310.2	8580.4	8649.5	8154.9	7976.6	7907.6	8108.9	8189.4
45°	8988.8	8891.0	8712.7	8701.2	8908.3	8862.2	8419.4	8298.7	8338.9	8471.2	8511.4
47.5°	9190.1	9241.8	9138.3	9167.0	9276.3	9167.0	8816.2	8816.2	8724.2	8804.7	8764.5
50°	9770.9	9609.9	9742.1	9742.1	9857.2	9868.7	9517.9	9391.3	9144.0	9006.0	9006.0
52.5°	10449.5	10461.0	10512.8	10702.6	10898.1	11064.9	10564.5	10023.9	9609.9	9431.6	9408.6
55°	11007.4	11122.4	11329.4	11686.0	12249.6	12479.6	11617.0	10650.8	10144.7	9868.7	9811.2
56°	11312.2	11202.9	11559.5	12048.3	12784.4	13083.5	11789.5	10777.3	10219.5	9908.9	9903.2
57.5°	11018.9	11139.6	11386.9	12157.6	13060.5	13451.5	11852.8	10719.8	9920.4	9604.1	9632.9
60°	8701.2	8816.2	9149.8	10012.4	11427.2	11732.0	10029.7	8839.2	8126.1	7671.8	7677.5
62.5°	4922.8	5009.1	5267.9	6067.3	6947.2	7240.5	6251.3	5457.7	4963.1	4710.0	4629.5
65°	1811.6	1777.1	1817.3	2225.6	2766.2	3013.5	2599.4	2196.9	1938.1	1846.1	1811.6
67.5°	678.6	626.9	586.6	626.9	787.9	833.9	764.9	638.4	598.1	615.4	626.9
70°	419.8	396.8	316.3	299.1	293.3	287.5	304.8	322.1	368.1	431.3	442.8
72.5°	293.3	276.0	224.3	212.8	201.3	195.5	224.3	247.3	287.5	333.6	339.3
75°	115.0	120.8	115.0	126.5	132.3	138.0	161.0	178.3	195.5	195.5	189.8
77.5°	23.0	23.0	34.5	46.0	57.5	74.8	109.3	126.5	132.3	126.5	109.3
80°	0.0	0.0	11.5	23.0	46.0	63.3	97.8	109.3	120.8	109.3	86.3
82.5°	0.0	0.0	11.5	28.8	46.0	57.5	92.0	115.0	132.3	120.8	92.0
85°	0.0	0.0	11.5	23.0	34.5	40.3	40.3	28.8	28.8	17.3	11.5
87.5°	0.0	0.0	0.0	0.0	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)