

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: P532177

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532177
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-SA7C-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 23794 lumens
Efficiency: N/A
Efficacy: 63.1 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

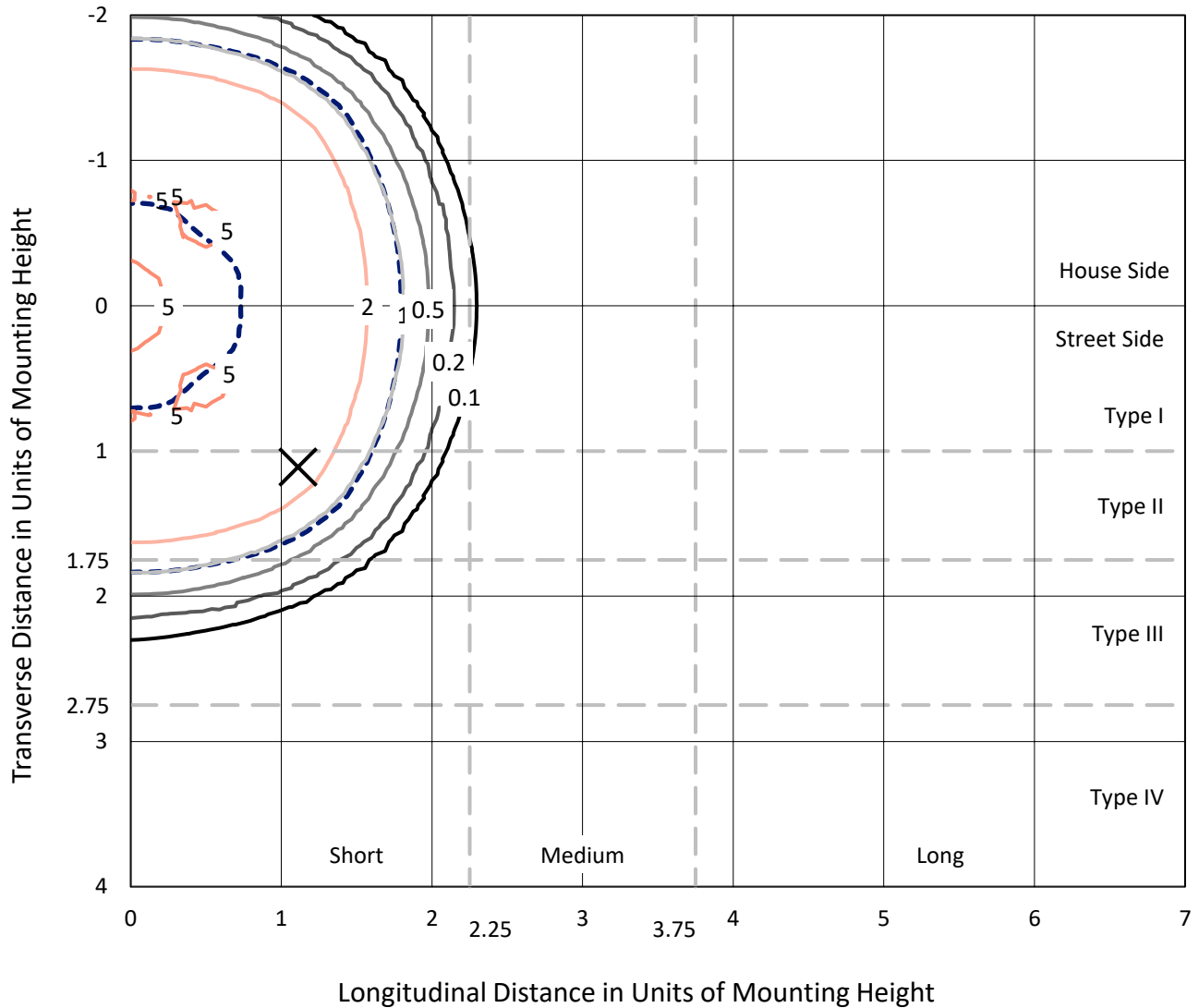
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

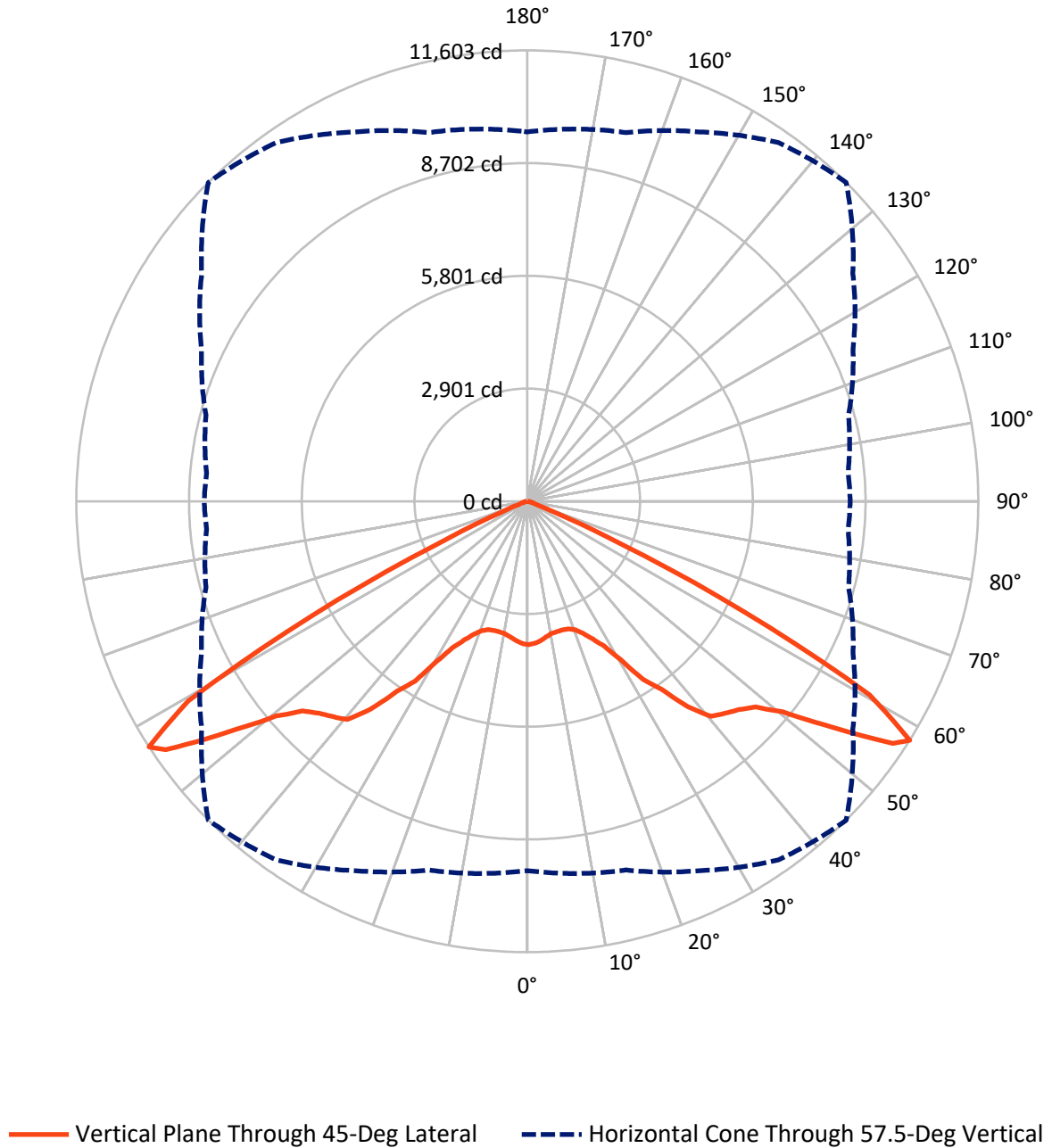
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	11897.0	0.0	11897.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11897.0	0.0	11897.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23794.0	0.0	23794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.1	1.4
10°-20°	980.3	4.1
20°-30°	1809.5	7.6
30°-40°	3558.7	15.0
40°-50°	5796.1	24.4
50°-60°	8266.0	34.7
60°-70°	2861.9	12.0
70°-80°	153.5	0.6
80°-90°	28.8	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°	23794.0	100.0
0°-180°	23794.0	100.0

Coefficient of Utilization



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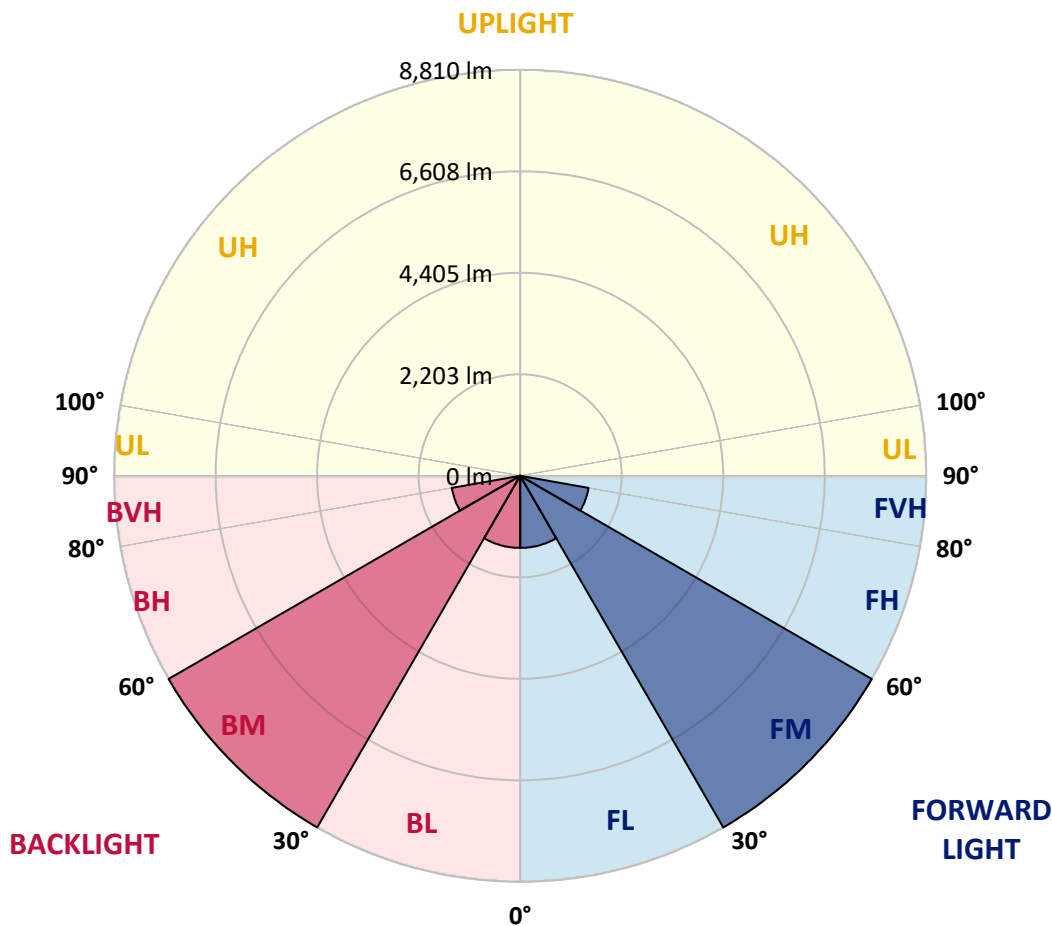
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.5	6.6			
FM (30°-60°)	8810.4	37.0			
FH (60°-80°)	1507.7	6.3			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1564.5	6.6	B3/2500		
BM (30°-60°)	8810.4	37.0	B5		
BH (60°-80°)	1507.7	6.3	B3/2500		G1/1800
BVH (80°-90°)	14.4	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°	3690.7	3690.7	3690.7	3690.7	3690.7	3690.7	3690.7	3690.7	3690.7	3690.7	3690.7
2.5°	3680.8	3700.6	3675.8	3665.9	3660.9	3660.9	3646.1	3646.1	3641.1	3646.1	3626.2
5°	3621.2	3641.1	3641.1	3636.1	3606.4	3601.4	3586.5	3576.6	3581.6	3561.7	3576.6
7.5°	3561.7	3576.6	3556.8	3551.8	3541.9	3522.0	3517.1	3472.4	3477.4	3477.4	3487.3
10°	3551.8	3546.8	3517.1	3492.3	3462.5	3457.5	3442.7	3432.7	3432.7	3427.8	3442.7
12.5°	3551.8	3527.0	3522.0	3467.5	3417.9	3437.7	3398.0	3373.2	3407.9	3417.9	3437.7
15°	3546.8	3571.6	3487.3	3462.5	3427.8	3432.7	3398.0	3373.2	3393.1	3403.0	3417.9
17.5°	3576.6	3561.7	3536.9	3487.3	3472.4	3452.6	3407.9	3388.1	3388.1	3412.9	3417.9
20°	3656.0	3616.3	3566.7	3541.9	3556.8	3532.0	3477.4	3403.0	3422.8	3442.7	3457.5
22.5°	3730.4	3700.6	3665.9	3651.0	3735.3	3695.7	3601.4	3517.1	3487.3	3522.0	3546.8
25°	3874.2	3874.2	3809.8	3829.6	3923.8	3928.8	3819.7	3670.9	3651.0	3665.9	3675.8
27.5°	4166.9	4181.8	4127.2	4147.1	4186.8	4221.5	4127.2	4003.2	3958.6	3953.6	3968.5
30°	4484.4	4514.2	4509.2	4593.5	4707.6	4727.5	4588.6	4385.2	4251.2	4226.4	4246.3
32.5°	4901.1	4916.0	4906.0	5005.3	5312.8	5456.7	5094.6	4806.8	4628.3	4672.9	4628.3
35°	5684.9	5670.0	5560.9	5580.7	5833.7	5937.9	5590.6	5407.1	5322.7	5412.0	5392.2
37.5°	6359.5	6304.9	6215.7	6344.6	6607.5	6701.8	6339.7	6017.2	5863.4	6012.3	6076.8
40°	6930.0	6791.1	6667.1	6796.0	7148.2	7277.2	6746.4	6483.5	6424.0	6533.1	6672.0
42.5°	7411.2	7321.9	7158.2	7168.1	7401.2	7460.8	7034.2	6880.4	6820.8	6994.5	7063.9
45°	7753.4	7669.1	7515.3	7505.4	7684.0	7644.3	7262.3	7158.2	7192.9	7307.0	7341.7
47.5°	7927.1	7971.7	7882.4	7907.2	8001.5	7907.2	7604.6	7604.6	7525.3	7594.7	7560.0
50°	8428.1	8289.2	8403.3	8403.3	8502.5	8512.4	8209.8	8100.7	7887.4	7768.3	7768.3
52.5°	9013.4	9023.4	9068.0	9231.7	9400.4	9544.2	9112.7	8646.4	8289.2	8135.4	8115.6
55°	9494.6	9593.8	9772.4	10080.0	10566.1	10764.5	10020.4	9187.1	8750.5	8512.4	8462.8
56°	9757.5	9663.3	9970.8	10392.5	11027.5	11285.4	10169.3	9296.2	8815.0	8547.1	8542.2
57.5°	9504.5	9608.7	9822.0	10486.7	11265.6	11602.9	10223.8	9246.6	8557.1	8284.2	8309.0
60°	7505.4	7604.6	7892.3	8636.4	9856.7	10119.7	8651.3	7624.5	7009.4	6617.5	6622.4
62.5°	4246.3	4320.7	4543.9	5233.5	5992.4	6245.4	5392.2	4707.6	4281.0	4062.7	3993.3
65°	1562.6	1532.8	1567.6	1919.8	2386.1	2599.4	2242.2	1895.0	1671.7	1592.4	1562.6
67.5°	585.4	540.7	506.0	540.7	679.6	719.3	659.8	550.6	515.9	530.8	540.7
70°	362.1	342.3	272.8	258.0	253.0	248.0	262.9	277.8	317.5	372.0	382.0
72.5°	253.0	238.1	193.5	183.5	173.6	168.7	193.5	213.3	248.0	287.7	292.7
75°	99.2	104.2	99.2	109.1	114.1	119.1	138.9	153.8	168.7	168.7	163.7
77.5°	19.8	19.8	29.8	39.7	49.6	64.5	94.3	109.1	114.1	109.1	94.3
80°	0.0	0.0	9.9	19.8	39.7	54.6	84.3	94.3	104.2	94.3	74.4
82.5°	0.0	0.0	9.9	24.8	39.7	49.6	79.4	99.2	114.1	104.2	79.4
85°	0.0	0.0	9.9	19.8	29.8	34.7	34.7	24.8	24.8	14.9	9.9
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)