

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: P531940

Luminaire Tested: **GALN-SA7B-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32588 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

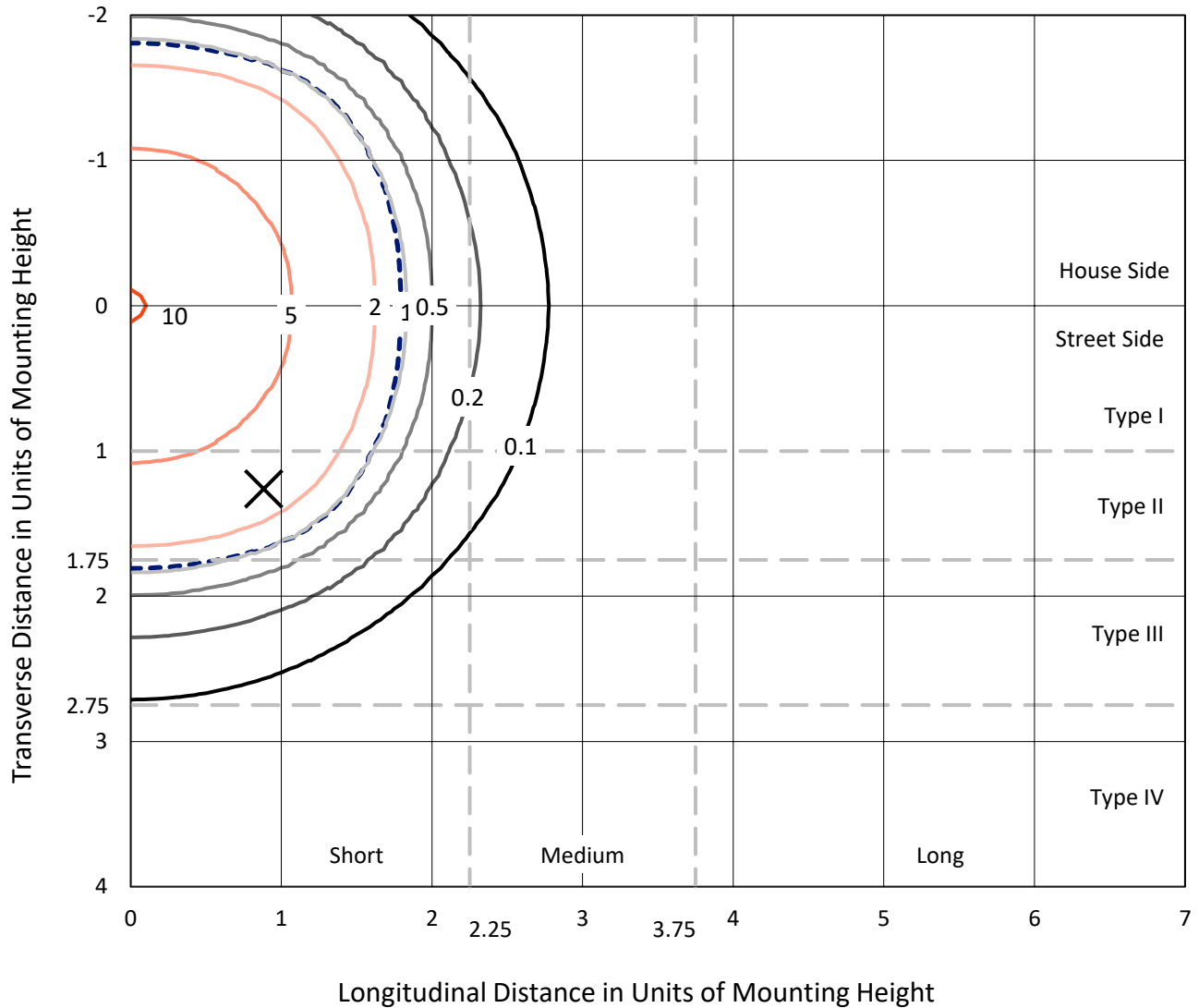
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

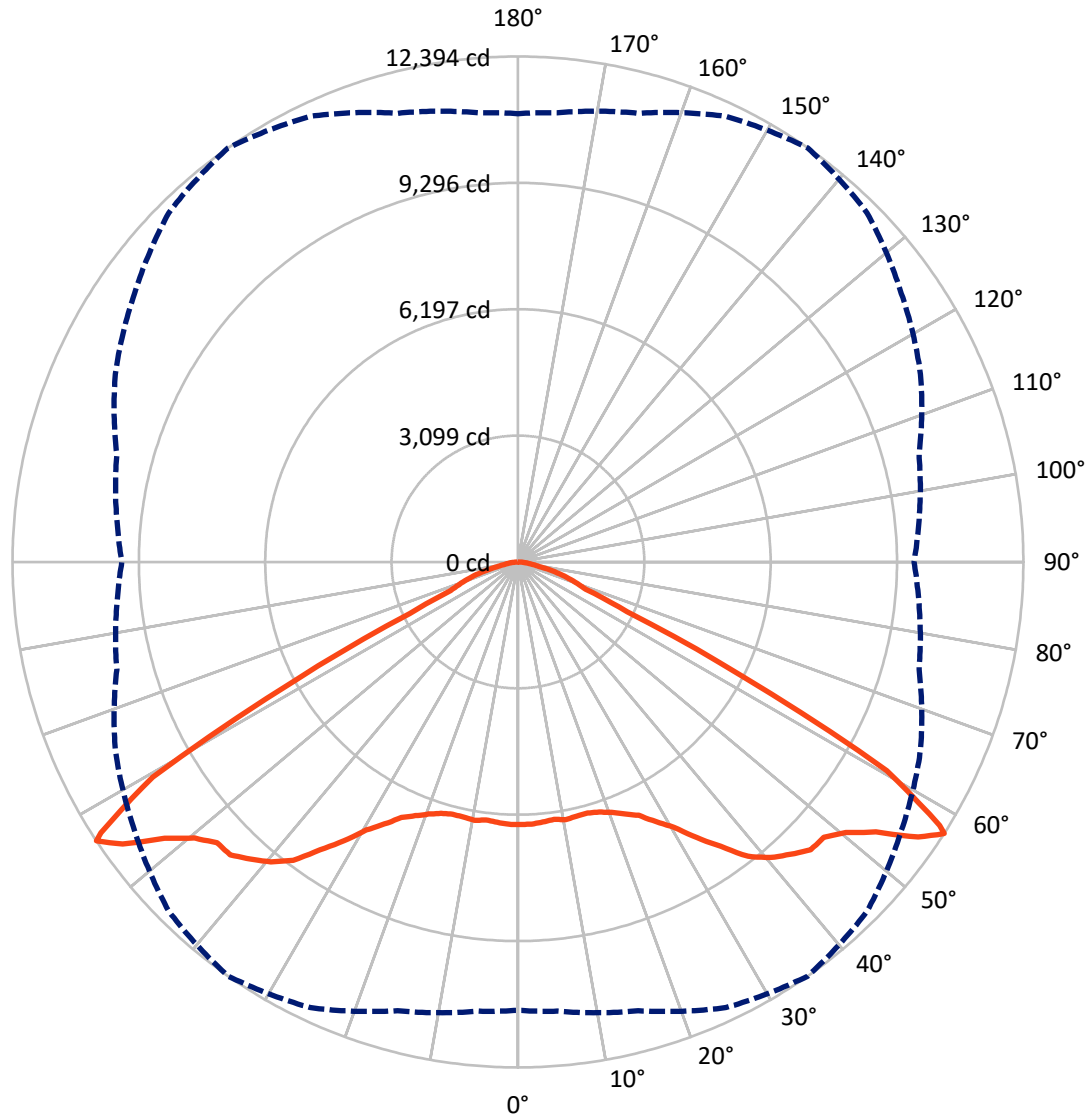
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16294.0	0.0	16294.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16294.0	0.0	16294.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32588.0	0.0	32588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	1.9
10°-20°	1807.1	5.5
20°-30°	3156.0	9.7
30°-40°	5171.3	15.9
40°-50°	7582.3	23.3
50°-60°	9550.5	29.3
60°-70°	3591.9	11.0
70°-80°	955.0	2.9
80°-90°	163.8	0.5
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°	32588.0	100.0
0°-180°	32588.0	100.0

Coefficient of Utilization



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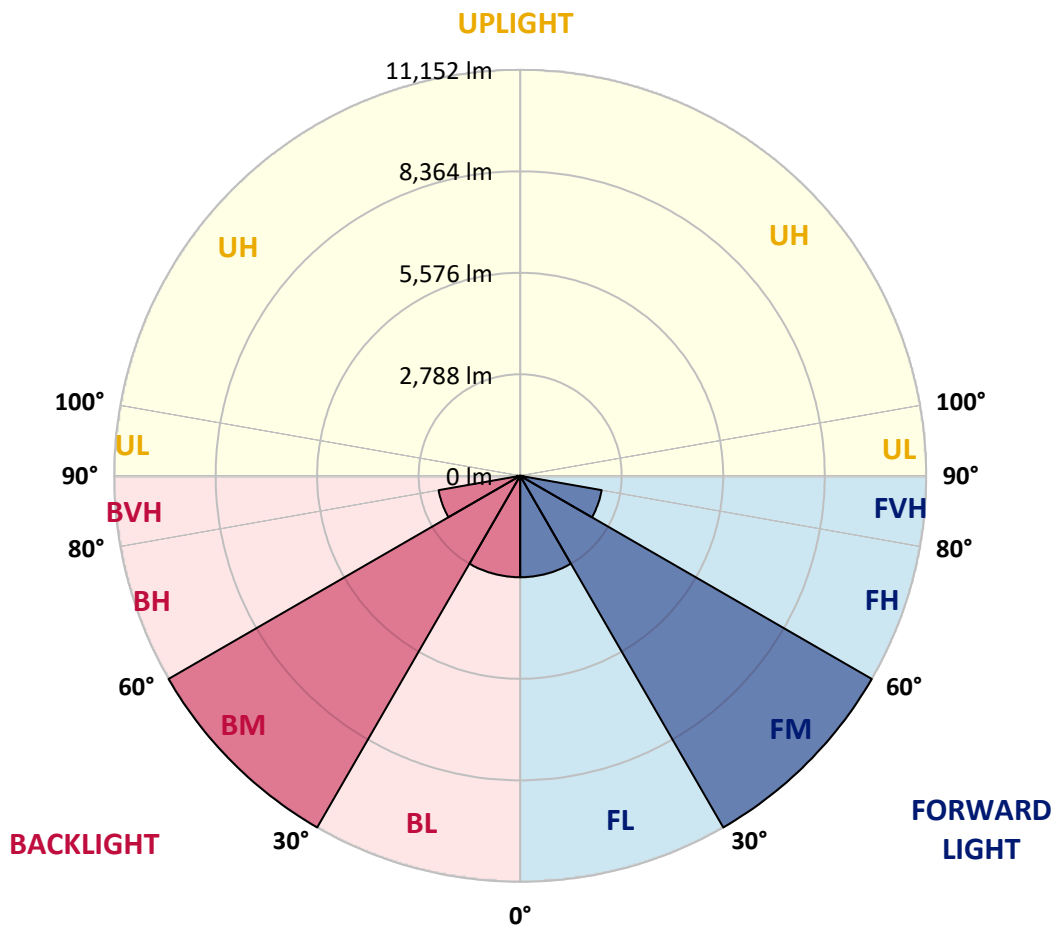
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2786.6	8.6			
FM (30°-60°)	11152.0	34.2			
FH (60°-80°)	2273.5	7.0			G2/5000
FVH (80°-90°)	81.9	0.3			G1/100
BL (0°-30°)	2786.6	8.6	B4/5000		
BM (30°-60°)	11152.0	34.2	B5		
BH (60°-80°)	2273.5	7.0	B3/2500		G2/5000
BVH (80°-90°)	81.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6435.9	6435.9	6435.9	6435.9	6435.9	6435.9	6435.9	6435.9	6435.9	6435.9	6435.9
2.5°	6403.8	6468.0	6439.9	6423.8	6435.9	6415.8	6383.7	6419.8	6411.8	6379.7	6367.6
5°	6387.7	6435.9	6403.8	6435.9	6403.8	6460.0	6443.9	6383.7	6456.0	6387.7	6411.8
7.5°	6375.7	6391.7	6399.8	6383.7	6371.7	6439.9	6403.8	6375.7	6335.5	6323.5	6343.5
10°	6347.6	6387.7	6327.5	6407.8	6423.8	6375.7	6375.7	6323.5	6291.4	6271.3	6339.5
12.5°	6419.8	6351.6	6343.5	6383.7	6395.7	6415.8	6359.6	6331.5	6271.3	6279.3	6267.3
15°	6335.5	6363.6	6367.6	6375.7	6387.7	6435.9	6383.7	6323.5	6299.4	6215.1	6223.1
17.5°	6367.6	6339.5	6367.6	6460.0	6443.9	6480.1	6423.8	6331.5	6275.3	6227.1	6291.4
20°	6423.8	6411.8	6423.8	6536.3	6556.3	6588.5	6540.3	6456.0	6347.6	6291.4	6323.5
22.5°	6484.1	6476.0	6484.1	6592.5	6708.9	6749.1	6700.9	6504.1	6447.9	6343.5	6307.4
25°	6592.5	6600.5	6684.8	6805.3	6881.5	6957.8	6869.5	6729.0	6548.3	6484.1	6407.8
27.5°	6833.4	6853.4	6901.6	7078.3	7210.8	7279.0	7154.6	6961.8	6849.4	6716.9	6696.9
30°	7130.5	7130.5	7214.8	7367.3	7548.0	7652.4	7499.8	7271.0	7134.5	7062.2	7018.1
32.5°	7523.9	7479.8	7511.9	7780.9	8061.9	8150.3	7945.5	7664.5	7447.6	7351.3	7319.2
35°	7861.2	7889.3	7961.6	8250.6	8563.8	8768.5	8447.4	8082.0	7861.2	7772.9	7756.8
37.5°	8298.8	8347.0	8383.1	8780.6	9158.0	9234.3	8925.1	8632.0	8363.0	8290.8	8250.6
40°	8917.1	8885.0	8897.0	9190.1	9531.4	9579.6	9274.4	9065.7	8844.8	8800.7	8800.7
42.5°	9427.0	9390.9	9431.0	9539.4	9800.4	9764.2	9595.6	9443.1	9350.7	9302.5	9350.7
45°	9736.1	9728.1	9800.4	9880.7	10065.4	9944.9	9812.4	9836.5	9748.2	9667.9	9663.9
47.5°	10073.4	10021.2	10109.5	10230.0	10089.5	10033.2	10025.2	10077.4	10049.3	9908.8	9864.6
50°	10238.0	10217.9	10358.5	10499.0	10422.7	10294.2	10322.3	10406.6	10045.3	9856.6	9748.2
52.5°	10679.6	10683.7	10952.7	11028.9	10996.8	10808.1	10868.3	10639.5	10213.9	9948.9	9961.0
55°	11374.2	11346.1	11647.2	11872.1	11908.2	11667.3	11378.2	11057.0	10523.1	10254.1	10173.8
57°	10992.8	11057.0	11390.3	12056.8	12394.0	12108.9	11478.6	10892.4	10181.8	9856.6	9712.1
57.5°	10482.9	10587.3	11165.4	11835.9	12189.2	12165.2	11354.1	10587.3	9952.9	9447.1	9459.1
60°	7680.5	7700.6	8222.5	9286.5	10390.6	10414.7	9427.0	8411.2	7704.6	7154.6	7230.8
62.5°	4051.0	4143.4	4352.2	5207.3	6162.9	6395.7	5797.5	5275.6	4665.3	4247.8	4287.9
65°	2144.0	2131.9	2232.3	2473.2	2942.9	3063.4	2983.1	2569.5	2356.7	2288.5	2292.5
67.5°	1742.5	1762.5	1750.5	1762.5	1794.7	1846.9	1834.8	1850.9	1862.9	1883.0	1879.0
70°	1477.5	1477.5	1485.5	1489.5	1489.5	1513.6	1541.7	1593.9	1597.9	1618.0	1626.0
72.5°	1164.3	1156.3	1168.3	1196.4	1200.5	1220.5	1260.7	1292.8	1304.8	1304.8	1280.8
75°	790.9	799.0	815.0	839.1	863.2	899.3	931.5	951.5	959.6	947.5	935.5
77.5°	445.7	453.7	465.7	501.9	530.0	562.1	598.2	618.3	638.4	642.4	618.3
80°	265.0	265.0	285.1	313.2	345.3	377.4	409.5	433.6	441.6	441.6	429.6
82.5°	160.6	164.6	180.7	208.8	236.9	257.0	285.1	305.1	321.2	317.2	309.1
85°	84.3	84.3	100.4	124.5	144.5	164.6	164.6	152.6	144.5	124.5	116.4
87.5°	28.1	24.1	32.1	32.1	28.1	32.1	32.1	36.1	36.1	36.1	36.1
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)