

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: P531939

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22157 lumens
Efficiency: N/A
Efficacy: 77.5 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

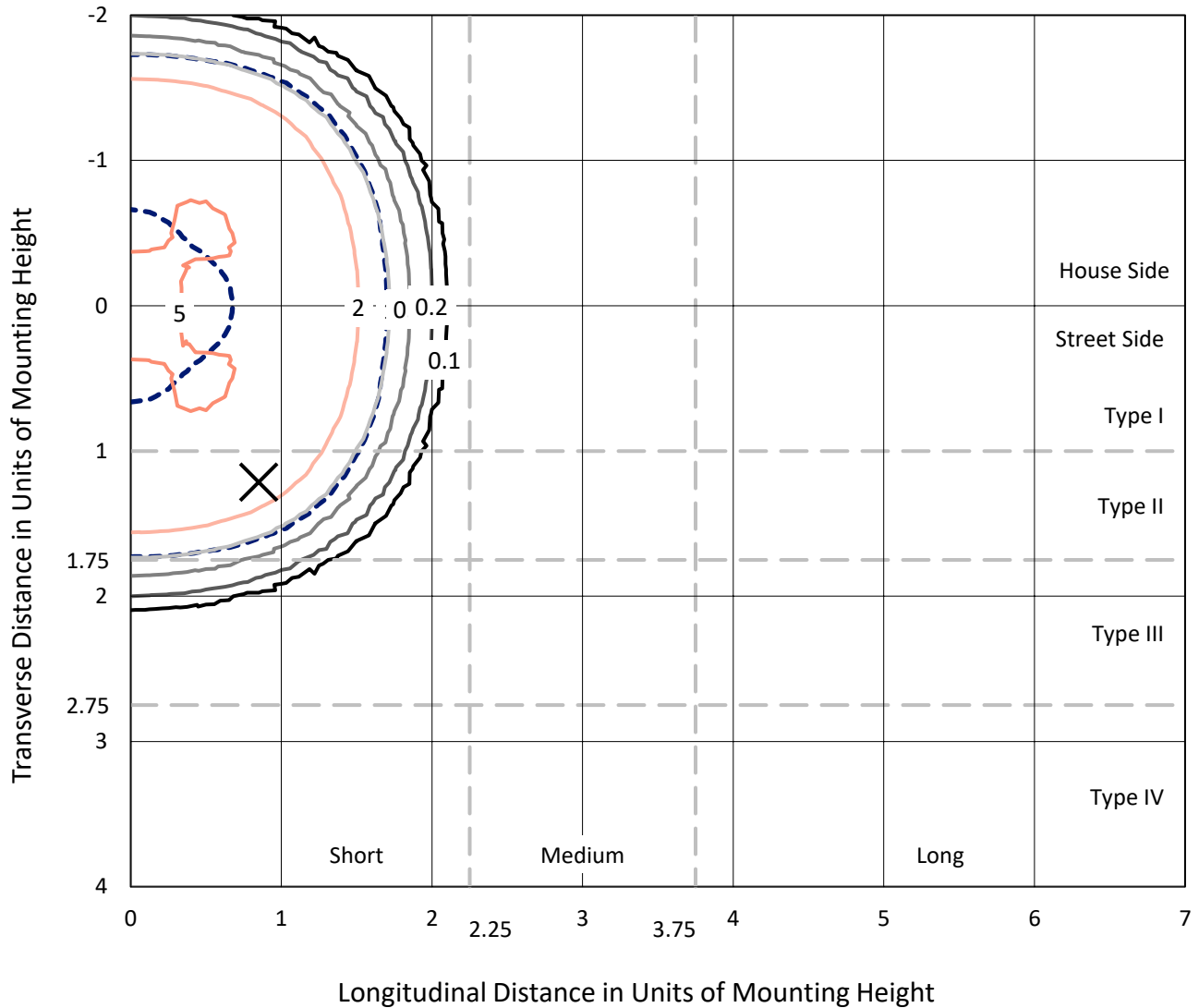
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531939
 CATALOG NUMBER: GALN-SA7B-735-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

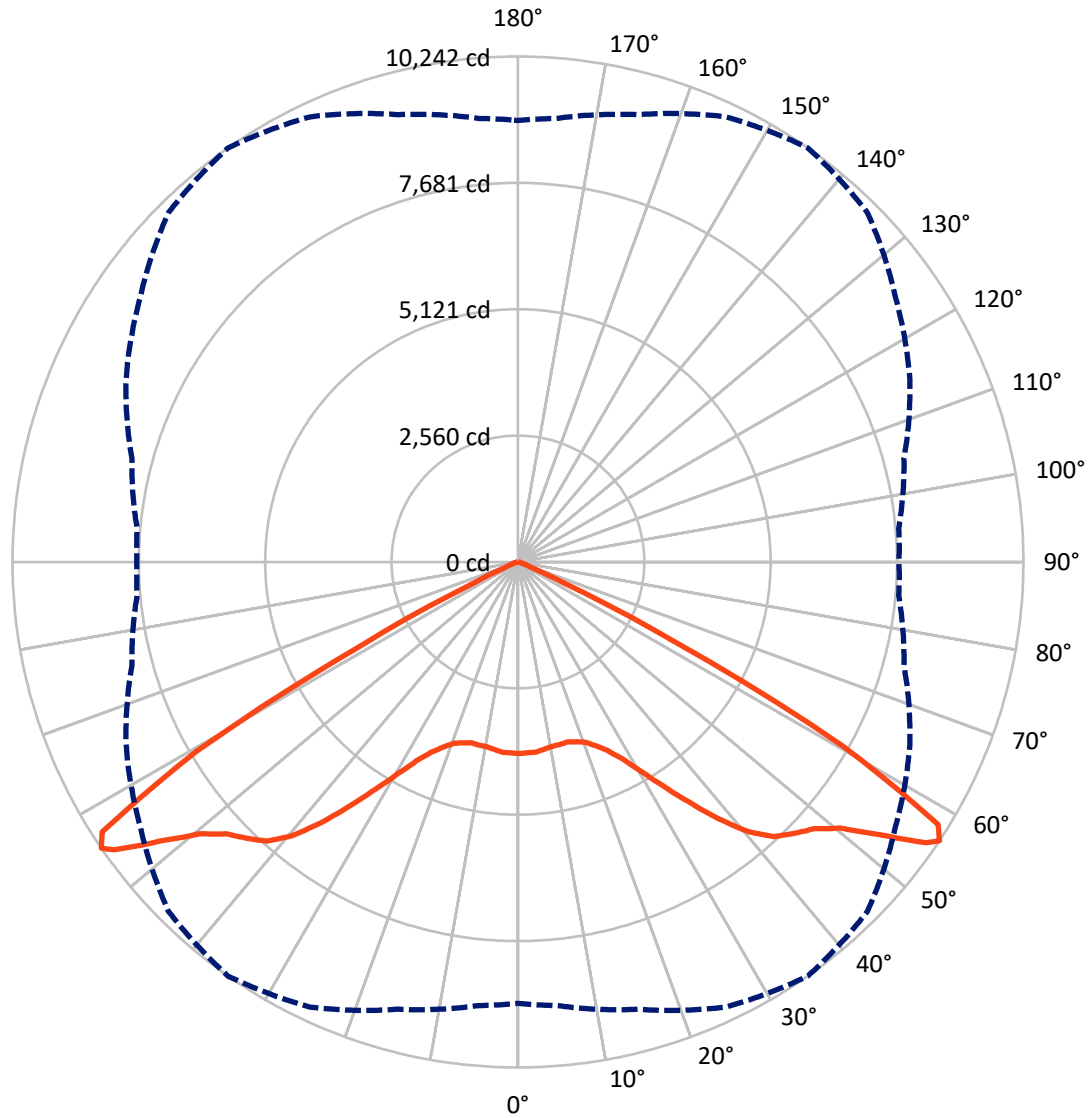
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

REPORT NUMBER: P531939
CATALOG NUMBER: GALN-SA7B-735-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531939
 CATALOG NUMBER: GALN-SA7B-735-U-5MQ-GRSBK

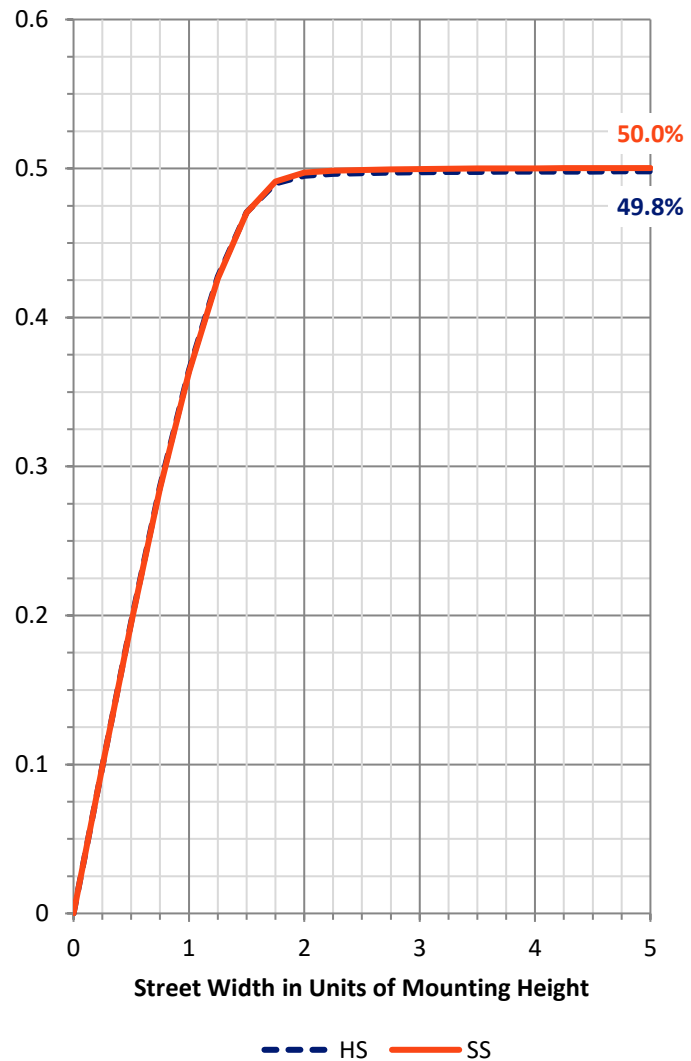
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11078.5	0.0	11078.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11078.5	0.0	11078.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22157.0	0.0	22157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.6
10°-20°	1065.3	4.8
20°-30°	1929.1	8.7
30°-40°	3577.2	16.1
40°-50°	5871.8	26.5
50°-60°	7564.6	34.1
60°-70°	1667.1	7.5
70°-80°	96.7	0.4
80°-90°	20.4	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°	22157.0	100.0
0°-180°	22157.0	100.0

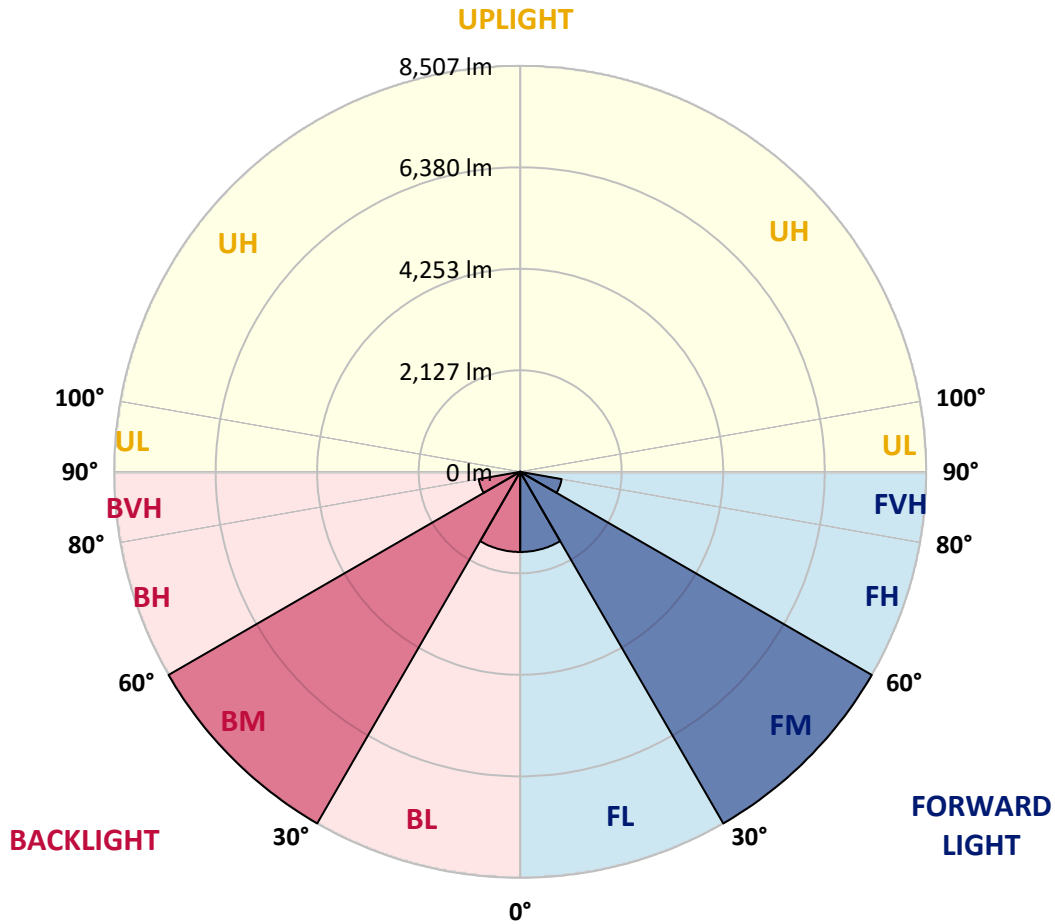


REPORT NUMBER: P531939
 CATALOG NUMBER: GALN-SA7B-735-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.6	7.6			
FM (30°-60°)	8506.8	38.4			
FH (60°-80°)	881.9	4.0			G1/1800
FVH (80°-90°)	10.2	0.0			G1/100
BL (0°-30°)	1679.6	7.6	B3/2500		
BM (30°-60°)	8506.8	38.4	B5		
BH (60°-80°)	881.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.2	0.0			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





REPORT NUMBER: P531939

CATALOG NUMBER: GALN-SA7B-735-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3882.4	3882.4	3882.4	3882.4	3882.4	3882.4	3882.4	3882.4	3882.4	3882.4	3882.4
2.5°	3890.4	3890.4	3894.4	3898.4	3870.3	3858.3	3862.3	3854.3	3850.3	3862.3	3862.3
5°	3878.4	3878.4	3866.3	3870.3	3870.3	3834.2	3834.2	3842.2	3842.2	3818.1	3810.1
7.5°	3846.2	3838.2	3822.2	3842.2	3830.2	3830.2	3802.1	3782.0	3774.0	3790.0	3774.0
10°	3778.0	3782.0	3798.1	3806.1	3798.1	3822.2	3774.0	3745.9	3717.8	3705.7	3705.7
12.5°	3745.9	3770.0	3745.9	3766.0	3794.1	3774.0	3745.9	3725.8	3685.7	3669.6	3669.6
15°	3741.9	3757.9	3766.0	3794.1	3782.0	3790.0	3733.8	3709.7	3649.5	3621.4	3609.4
17.5°	3737.8	3757.9	3770.0	3822.2	3830.2	3834.2	3790.0	3717.8	3665.6	3637.5	3609.4
20°	3782.0	3790.0	3814.1	3866.3	3898.4	3954.7	3874.4	3798.1	3685.7	3653.5	3641.5
22.5°	3838.2	3878.4	3902.5	3958.7	4043.0	4091.2	3986.8	3890.4	3774.0	3733.8	3685.7
25°	4018.9	4010.9	4051.0	4167.4	4235.7	4271.8	4187.5	4047.0	3894.4	3846.2	3854.3
27.5°	4243.7	4251.8	4287.9	4416.4	4516.7	4572.9	4472.6	4287.9	4139.3	4059.0	4051.0
30°	4536.8	4528.8	4568.9	4741.6	4922.2	5006.5	4829.9	4613.1	4468.6	4364.2	4388.3
32.5°	4846.0	4850.0	4962.4	5119.0	5412.0	5576.7	5291.6	5026.6	4809.8	4737.6	4701.4
35°	5303.6	5323.7	5412.0	5652.9	5978.1	6190.9	5877.8	5560.6	5311.7	5179.2	5195.2
37.5°	5869.7	5849.7	5998.2	6259.2	6600.5	6757.0	6492.1	6130.7	5877.8	5789.4	5845.7
40°	6472.0	6492.1	6568.3	6805.2	7186.6	7291.0	6897.6	6700.8	6480.0	6435.8	6504.1
42.5°	7074.2	7062.2	7118.4	7331.2	7608.2	7535.9	7303.1	7186.6	7030.0	6941.7	7034.1
45°	7515.8	7495.8	7600.2	7744.7	7845.1	7708.6	7604.2	7564.0	7483.7	7387.4	7471.7
47.5°	7945.4	7929.4	8029.7	8069.9	8077.9	7897.3	7917.3	7989.6	7788.9	7588.1	7684.5
50°	8310.8	8282.7	8407.1	8495.5	8475.4	8186.3	8258.6	8186.3	7873.2	7636.3	7600.2
52.5°	8921.0	8933.1	9065.6	9226.2	9178.0	8937.1	8832.7	8503.5	8102.0	7889.2	7764.8
55°	9306.5	9246.3	9475.1	9985.0	10041.2	9792.3	9330.6	8844.8	8242.5	7981.6	7949.5
56°	8945.1	9021.4	9382.8	9952.9	10241.9	10013.1	9342.6	8760.5	8098.0	7744.7	7720.6
57.5°	8025.7	7985.6	8475.4	9254.3	10041.2	9944.8	9013.4	8158.2	7387.4	6989.9	6941.7
60°	4994.5	5110.9	5540.5	6504.1	7556.0	7604.2	6680.7	5946.0	5046.7	4693.4	4777.7
62.5°	1955.2	1854.9	2123.9	2842.5	3565.2	3725.8	3376.5	2806.4	2304.5	1955.2	1931.2
65°	453.7	441.6	497.8	686.5	959.6	1112.1	1055.9	758.8	558.1	530.0	489.8
67.5°	257.0	257.0	244.9	244.9	269.0	285.1	273.0	269.0	281.0	293.1	289.1
70°	180.7	176.7	168.6	172.6	164.6	164.6	176.7	196.7	212.8	212.8	216.8
72.5°	108.4	108.4	108.4	120.4	120.4	120.4	132.5	148.6	152.6	148.6	144.5
75°	48.2	48.2	56.2	68.3	76.3	80.3	92.3	100.4	108.4	100.4	92.3
77.5°	12.0	12.0	20.1	28.1	36.1	44.2	60.2	72.3	76.3	72.3	60.2
80°	4.0	4.0	8.0	20.1	36.1	44.2	60.2	64.2	68.3	60.2	48.2
82.5°	4.0	4.0	8.0	20.1	28.1	36.1	48.2	56.2	60.2	52.2	48.2
85°	0.0	4.0	8.0	16.1	24.1	32.1	32.1	24.1	20.1	12.0	16.1
87.5°	0.0	0.0	4.0	4.0	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)