

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: P456369

Luminaire Tested: **GALN-SA7C-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37675 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

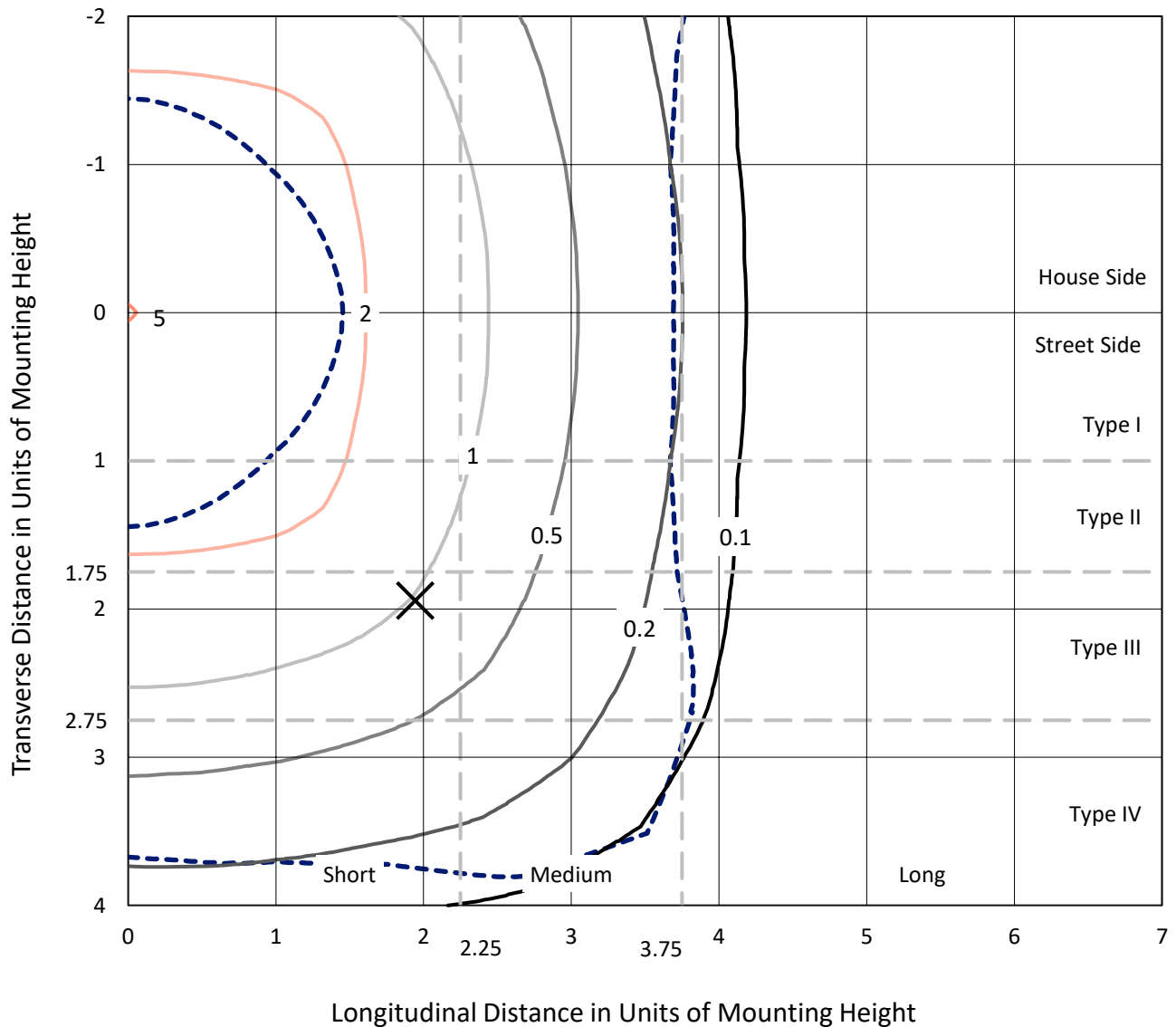
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456369
 CATALOG NUMBER: GALN-SA7C-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

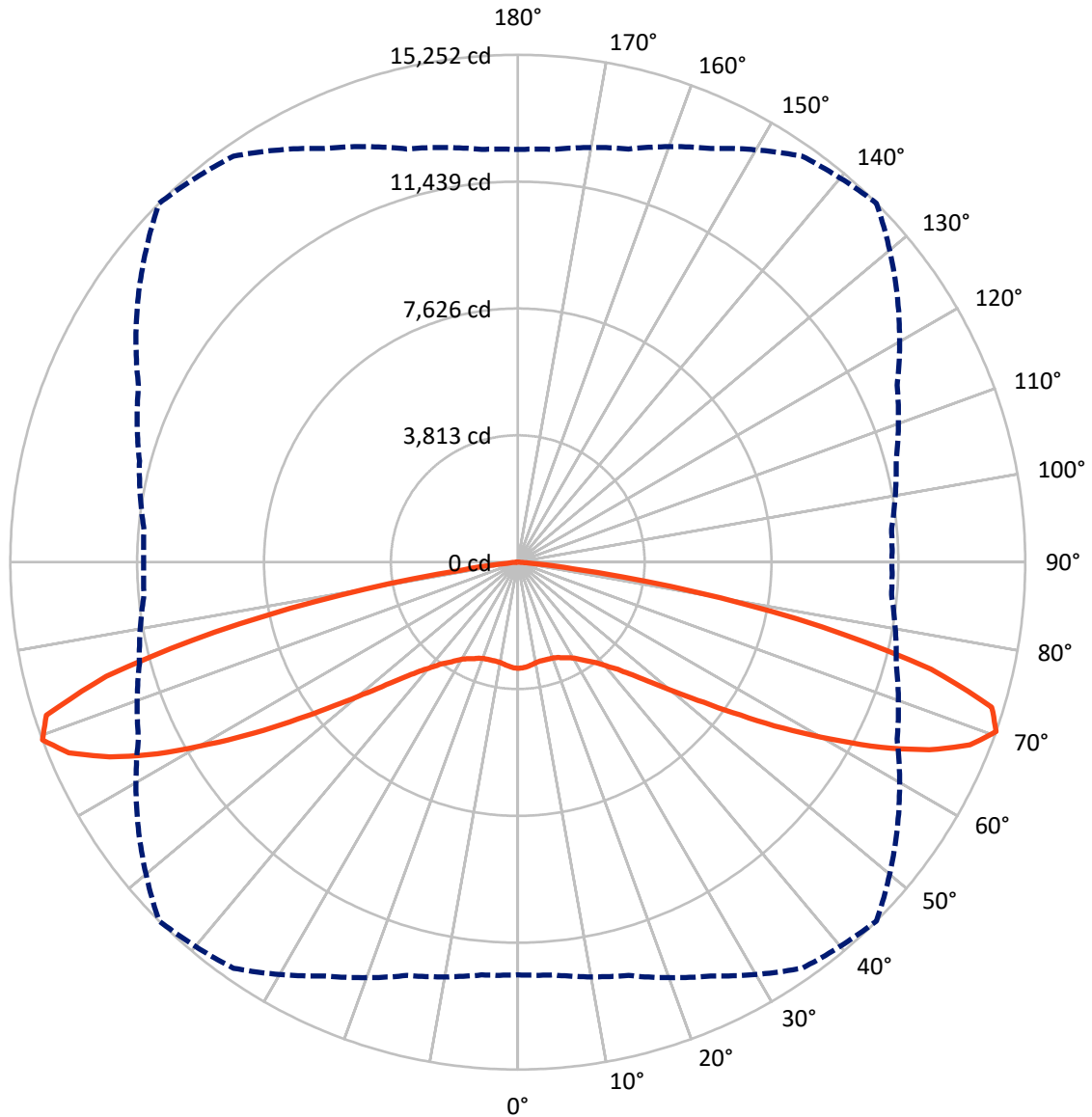
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P456369
CATALOG NUMBER: GALN-SA7C-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P456369

CATALOG NUMBER: GALN-SA7C-827-U-5WQ

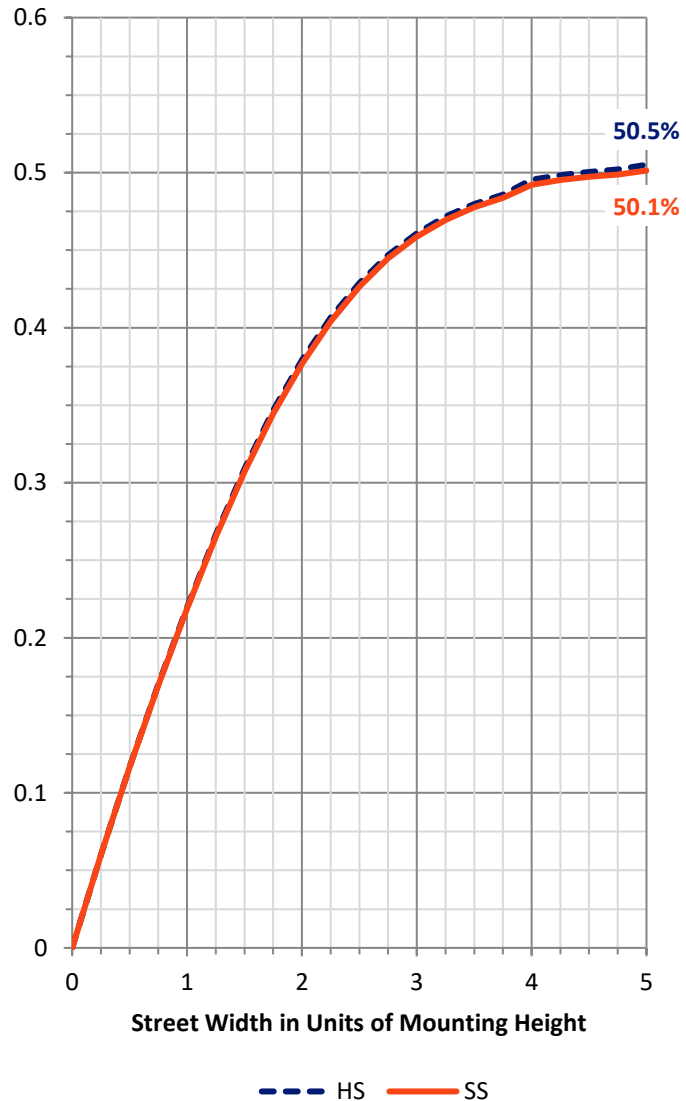
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18837.5	0.0	18837.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18837.5	0.0	18837.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37675.0	0.0	37675.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	0.8
10°-20°	873.3	2.3
20°-30°	1487.8	3.9
30°-40°	2306.1	6.1
40°-50°	3881.6	10.3
50°-60°	7062.3	18.7
60°-70°	11956.3	31.7
70°-80°	9254.7	24.6
80°-90°	554.6	1.5
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°	37675.0	100.0
0°-180°	37675.0	100.0



REPORT NUMBER: P456369

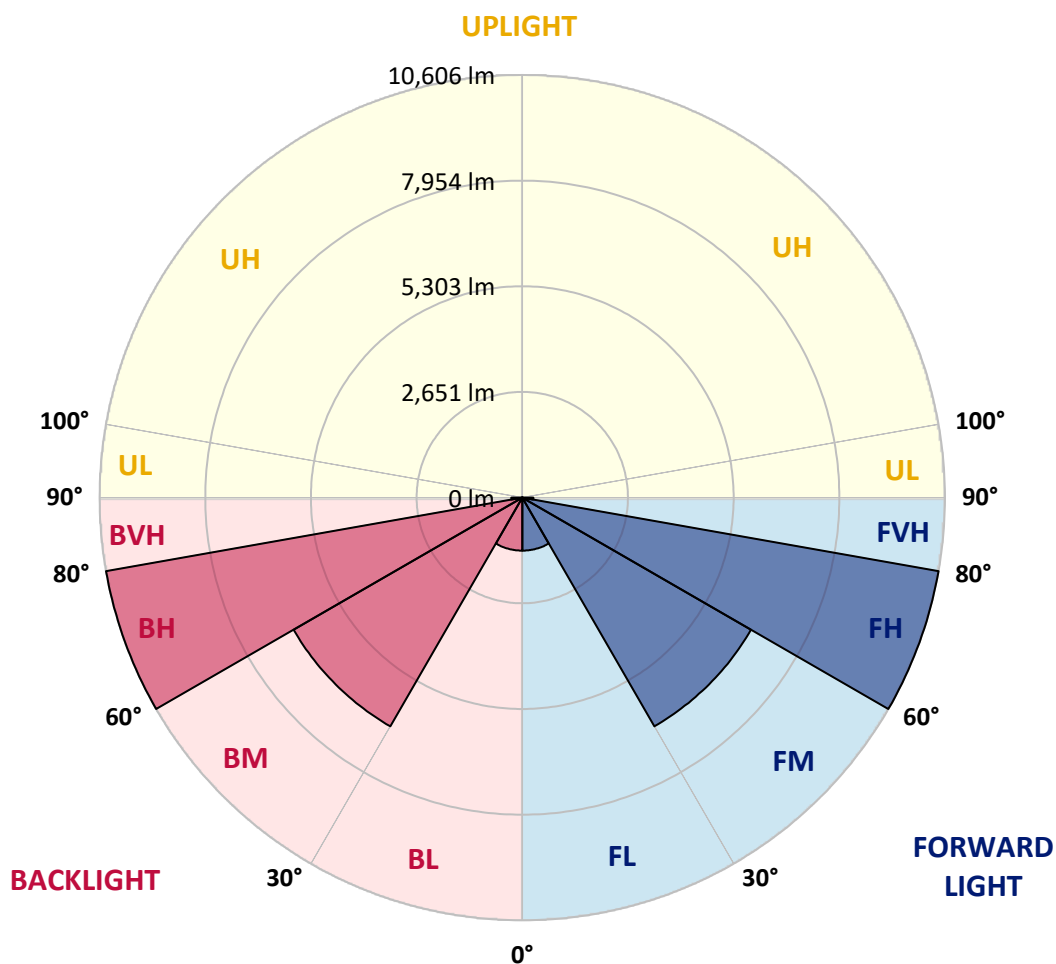
CATALOG NUMBER: GALN-SA7C-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.7	3.5			
FM	(30°-60°)	6625.0	17.6			
FH	(60°-80°)	10605.5	28.1			G4/12000
FVH	(80°-90°)	277.3	0.7			G3/500
BL	(0°-30°)	1329.7	3.5	B3/2500		
BM	(30°-60°)	6625.0	17.6	B4/8500		
BH	(60°-80°)	10605.5	28.1	B5		G4/12000
BVH	(80°-90°)	277.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P456369
 CATALOG NUMBER: GALN-SA7C-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7	3189.7
2.5°	3181.7	3183.7	3183.7	3179.7	3177.7	3177.7	3175.7	3175.7	3181.7	3183.7	3185.7
5°	3153.8	3153.8	3153.8	3151.8	3147.9	3147.9	3143.9	3143.9	3145.9	3151.8	3147.9
7.5°	3116.0	3120.0	3120.0	3112.0	3106.1	3106.1	3104.1	3106.1	3108.1	3114.0	3112.0
10°	3104.1	3106.1	3096.1	3082.2	3072.3	3066.3	3068.3	3072.3	3082.2	3086.2	3088.2
12.5°	3112.0	3112.0	3094.1	3074.2	3056.3	3048.4	3046.4	3060.3	3078.2	3090.2	3094.1
15°	3122.0	3118.0	3096.1	3070.3	3052.4	3050.4	3048.4	3058.3	3084.2	3108.1	3110.1
17.5°	3128.0	3126.0	3098.1	3066.3	3056.3	3056.3	3054.3	3062.3	3090.2	3120.0	3122.0
20°	3147.9	3141.9	3110.1	3076.2	3068.3	3072.3	3066.3	3076.2	3106.1	3141.9	3149.9
22.5°	3187.7	3181.7	3149.9	3116.0	3112.0	3112.0	3110.1	3120.0	3151.8	3189.7	3195.6
25°	3235.4	3229.4	3199.6	3175.7	3179.7	3187.7	3183.7	3185.7	3211.5	3243.4	3253.3
27.5°	3299.1	3289.1	3263.3	3243.4	3255.3	3255.3	3255.3	3253.3	3269.2	3299.1	3309.0
30°	3376.7	3372.7	3344.9	3342.9	3352.8	3342.9	3342.9	3344.9	3346.8	3374.7	3384.7
32.5°	3478.2	3470.2	3456.3	3452.3	3480.2	3488.1	3460.3	3434.4	3448.3	3476.2	3482.2
35°	3645.3	3633.4	3613.5	3591.6	3613.5	3651.3	3591.6	3571.7	3607.5	3645.3	3649.3
37.5°	3872.2	3866.2	3834.3	3794.5	3792.6	3832.4	3770.7	3768.7	3836.3	3882.1	3888.1
40°	4156.7	4162.7	4122.9	4085.1	4065.2	4097.0	4049.2	4067.2	4132.8	4184.6	4180.6
42.5°	4556.6	4534.8	4473.1	4437.3	4415.4	4403.4	4391.5	4419.3	4493.0	4548.7	4592.5
45°	5024.2	5016.3	4938.7	4894.9	4847.2	4829.2	4825.3	4875.0	4964.6	5032.2	5038.2
47.5°	5553.5	5535.6	5485.9	5440.1	5422.2	5400.3	5380.4	5418.2	5507.8	5555.5	5569.5
50°	6098.7	6102.7	6102.7	6094.8	6112.7	6116.6	6062.9	6076.9	6126.6	6122.6	6118.6
52.5°	6721.5	6743.4	6846.9	6856.9	6942.4	7000.1	6902.6	6844.9	6827.0	6719.6	6727.5
55°	7453.8	7473.7	7628.9	7784.1	8014.9	8112.4	7907.5	7728.4	7601.0	7437.9	7445.8
57.5°	8367.1	8377.1	8524.3	8822.8	9188.9	9417.7	9057.6	8703.4	8444.7	8289.5	8227.8
60°	9350.1	9360.0	9574.9	9939.1	10508.1	10786.7	10341.0	9762.0	9435.6	9198.8	9214.8
62.5°	10530.0	10569.8	10762.8	11264.3	11954.7	12267.1	11676.1	10902.1	10460.4	10165.9	10177.8
65°	11793.5	11861.2	12072.1	12623.3	13260.0	13596.3	12872.0	11978.6	11429.4	11069.3	11107.1
67.5°	12613.3	12673.0	12977.5	13586.4	14380.3	14658.9	13723.7	12683.0	11996.5	11566.7	11487.1
70°	12404.4	12454.2	12860.1	13723.7	14899.6	15251.8	13926.6	12579.5	11771.7	11276.2	11244.4
72.5°	10949.9	10846.4	11439.4	12679.0	14306.7	14897.6	13287.9	11489.1	10472.3	9962.9	9903.2
75°	7256.8	7481.6	8357.2	9817.7	12104.0	12836.2	11341.9	9224.7	7945.3	7521.4	7455.8
77.5°	2425.6	2598.7	3376.7	5565.5	8251.7	9352.1	8263.6	6033.1	4268.1	3438.4	3454.3
80°	642.7	634.7	821.8	1530.2	3565.7	5416.2	4150.7	2043.5	1118.3	809.8	768.1
82.5°	230.8	258.7	332.3	423.8	945.2	1683.4	1187.9	573.1	419.8	310.4	300.5
85°	101.5	99.5	143.3	169.1	236.8	314.4	278.6	242.8	212.9	141.3	131.3
87.5°	21.9	21.9	33.8	25.9	41.8	41.8	51.7	61.7	63.7	41.8	33.8
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)