

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: P454512

Luminaire Tested: **GALN-SA5C-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27011 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

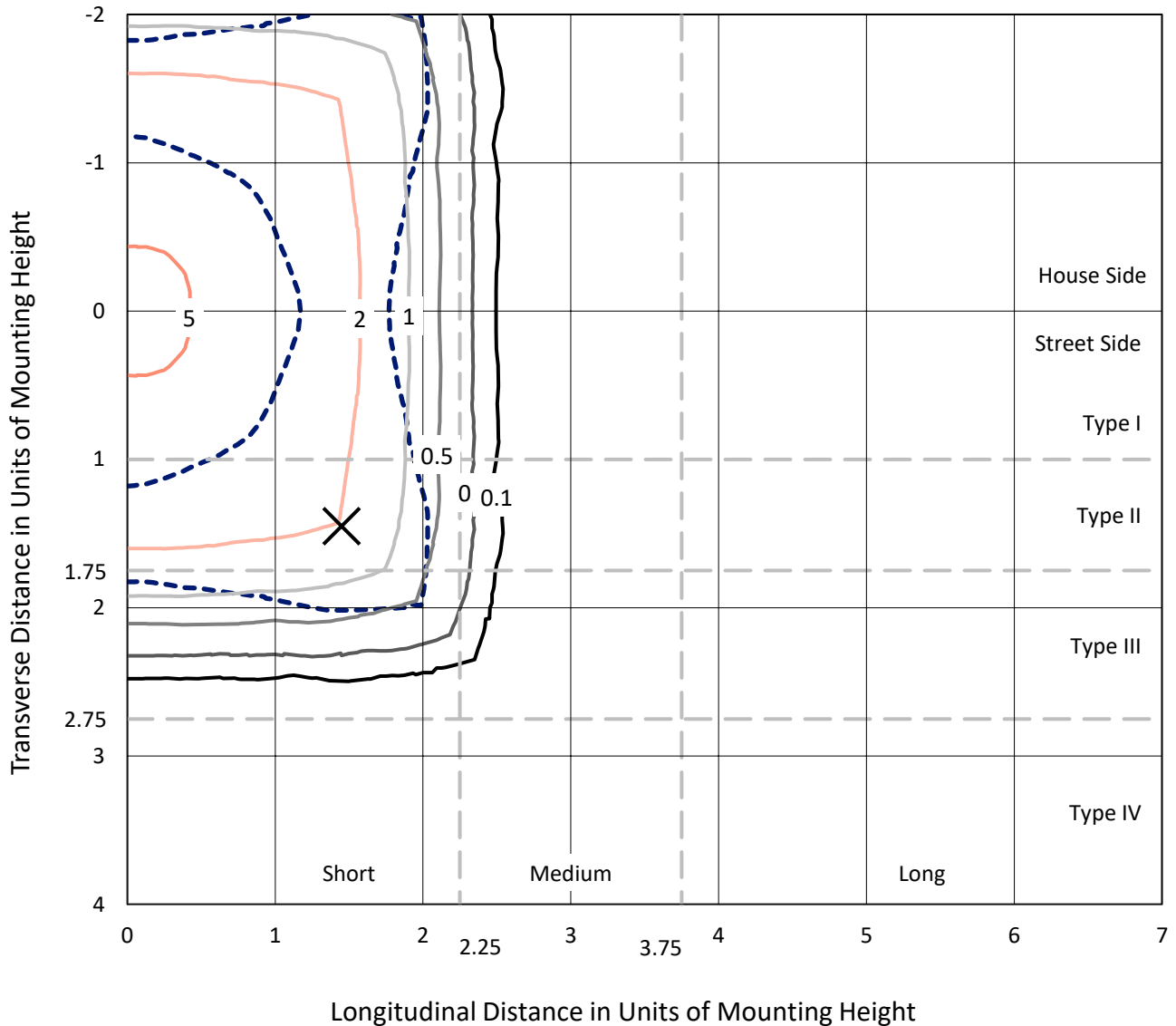
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

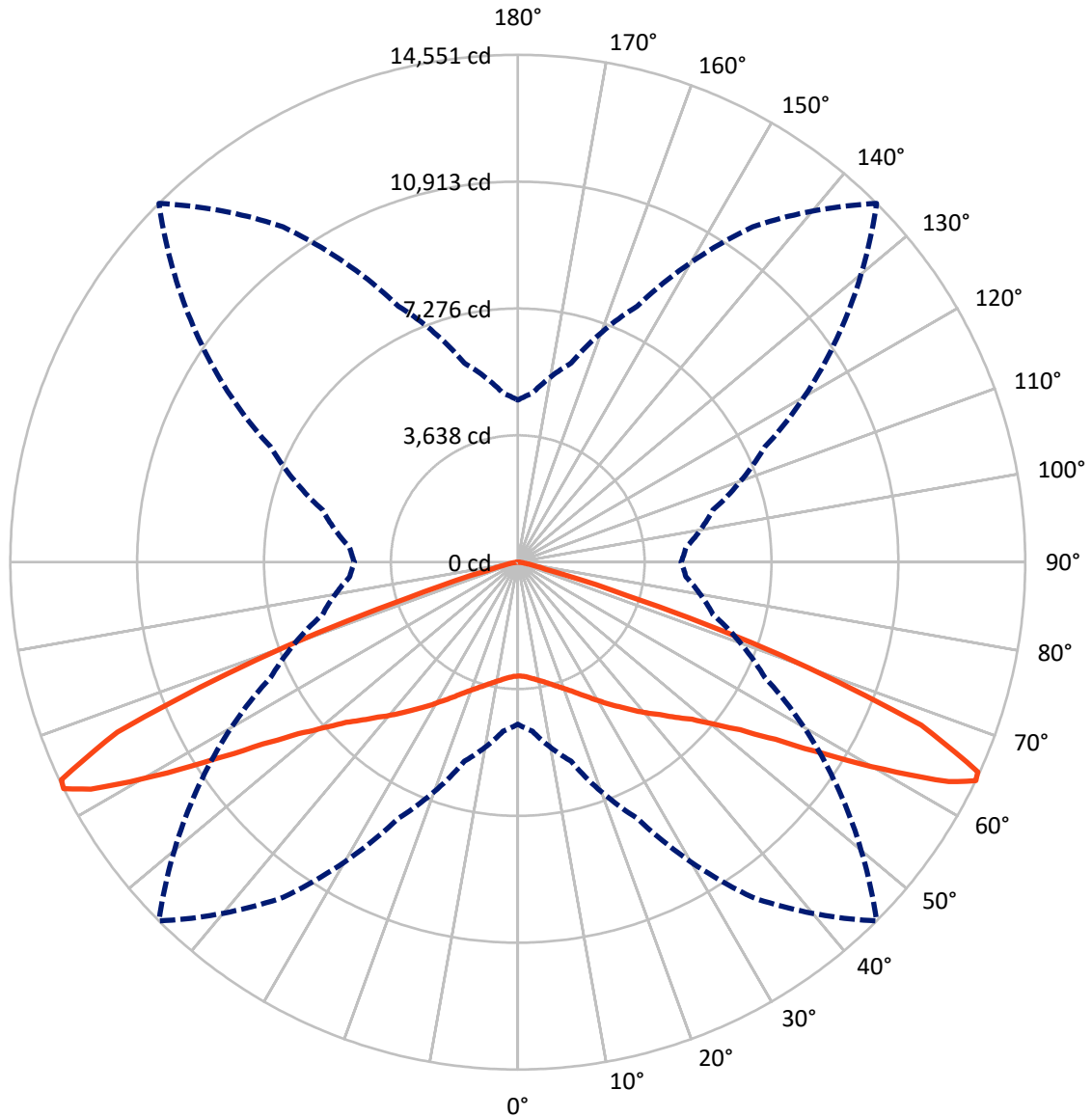
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13505.5	0.0	13505.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13505.5	0.0	13505.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27011.0	0.0	27011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.2
10°-20°	1034.6	3.8
20°-30°	1955.1	7.2
30°-40°	3237.8	12.0
40°-50°	5054.8	18.7
50°-60°	7814.5	28.9
60°-70°	6738.4	24.9
70°-80°	763.6	2.8
80°-90°	91.5	0.3
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°	27011.0	100.0
0°-180°	27011.0	100.0

Coefficient of Utilization



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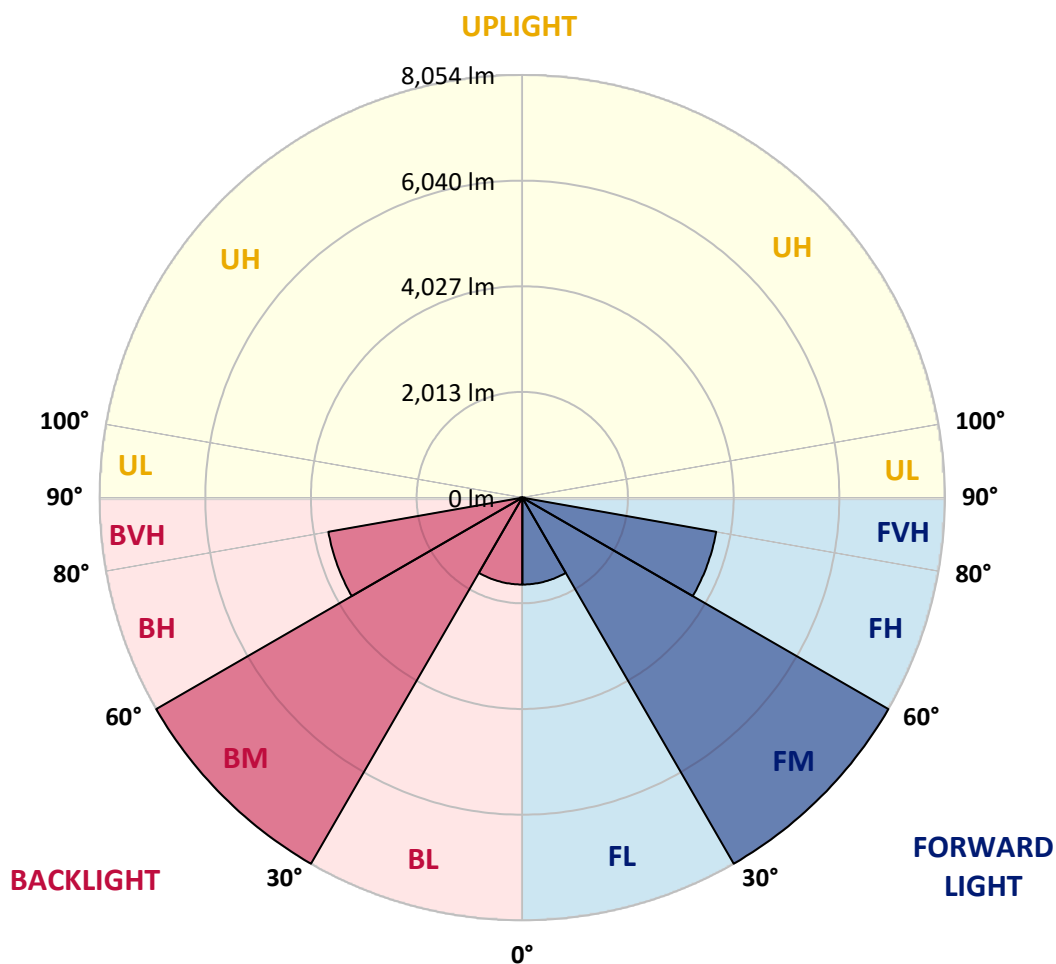
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.2	6.1			
FM	(30°-60°)	8053.6	29.8			
FH	(60°-80°)	3751.0	13.9			G2/5000
FVH	(80°-90°)	45.7	0.2			G1/100
BL	(0°-30°)	1655.2	6.1	B3/2500		
BM	(30°-60°)	8053.6	29.8	B4/8500		
BH	(60°-80°)	3751.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	45.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7	3264.7
2.5°	3277.6	3284.8	3279.0	3277.6	3276.2	3276.2	3277.6	3283.3	3287.6	3284.8	
5°	3319.1	3324.8	3322.0	3320.5	3319.1	3320.5	3317.7	3316.2	3320.5	3320.5	3319.1
7.5°	3370.6	3377.8	3374.9	3377.8	3379.2	3380.6	3373.5	3367.7	3366.3	3370.6	3367.7
10°	3440.7	3446.4	3447.9	3449.3	3452.1	3450.7	3442.1	3432.1	3430.7	3429.3	3427.8
12.5°	3519.4	3523.7	3525.1	3530.8	3535.1	3536.6	3526.5	3518.0	3503.7	3506.5	3500.8
15°	3608.1	3616.7	3615.2	3623.8	3635.3	3638.1	3628.1	3613.8	3600.9	3593.8	3589.5
17.5°	3716.8	3722.5	3719.7	3728.3	3742.6	3749.7	3741.1	3722.5	3709.7	3693.9	3685.3
20°	3845.6	3855.6	3858.5	3858.5	3871.3	3878.5	3865.6	3859.9	3839.9	3828.4	3821.3
22.5°	3991.5	3995.8	4004.4	4013.0	4025.8	4023.0	4018.7	4010.1	3991.5	3981.5	3970.0
25°	4156.0	4160.3	4181.8	4200.4	4204.7	4201.8	4196.1	4191.8	4174.6	4151.7	4143.2
27.5°	4347.7	4356.3	4384.9	4402.1	4402.1	4403.5	4392.1	4406.4	4369.2	4342.0	4339.1
30°	4588.1	4593.8	4618.1	4635.3	4626.7	4619.6	4616.7	4631.0	4590.9	4542.3	4530.9
32.5°	4825.6	4845.6	4867.1	4904.3	4874.2	4861.3	4858.5	4868.5	4822.7	4768.3	4752.6
35°	5080.2	5094.5	5134.6	5166.1	5138.9	5108.8	5121.7	5153.2	5098.8	5025.9	5023.0
37.5°	5362.1	5374.9	5426.4	5459.3	5439.3	5387.8	5409.3	5446.5	5392.1	5302.0	5283.4
40°	5655.3	5682.5	5746.9	5781.2	5748.3	5679.7	5719.7	5759.8	5711.1	5606.7	5565.2
42.5°	5984.4	6027.3	6120.3	6137.5	6074.5	5981.5	6051.6	6116.0	6081.7	5961.5	5945.8
45°	6369.2	6395.0	6509.4	6546.6	6459.4	6343.5	6430.8	6548.1	6522.3	6383.5	6353.5
47.5°	6799.9	6824.2	6942.9	6998.7	6888.6	6732.6	6890.0	7043.1	7027.3	6878.5	6864.2
50°	7309.2	7314.9	7479.4	7542.4	7432.2	7297.7	7437.9	7628.2	7565.3	7375.0	7372.1
52.5°	7867.1	7874.3	8081.7	8203.3	8141.8	7990.2	8156.1	8272.0	8111.8	7862.8	7844.2
55°	8350.7	8386.4	8669.7	8993.0	9077.4	8967.3	9017.4	8963.0	8568.1	8219.1	8164.7
57.5°	8548.1	8618.2	9048.8	9652.6	10201.9	10365.0	9978.8	9460.9	8749.8	8256.3	8203.3
60°	8066.0	8141.8	8809.9	9955.9	11357.9	12066.1	10980.2	9545.3	8336.4	7642.5	7559.5
62.5°	6459.4	6480.8	7463.7	9242.0	12031.7	13865.8	11402.2	8825.7	7133.2	6190.4	6157.5
64°	4648.2	4868.5	5910.0	8103.2	11737.0	14551.1	11159.0	7817.0	5794.1	4839.9	4685.4
65°	3476.5	3536.6	4764.1	6920.0	11217.7	14499.6	10686.9	6852.8	4798.4	3703.9	3532.3
67.5°	1313.3	1320.5	1758.3	3449.3	7985.9	12475.2	8156.1	3728.3	2021.5	1462.1	1409.2
70°	545.1	555.1	645.2	1160.3	3432.1	8010.2	3932.8	1344.8	739.6	599.4	590.9
72.5°	399.2	404.9	432.1	515.0	1055.8	3289.1	1293.3	570.8	433.5	387.7	383.4
75°	313.3	316.2	336.2	379.1	492.1	911.3	537.9	392.0	330.5	297.6	294.7
77.5°	238.9	246.1	260.4	289.0	330.5	432.1	356.2	293.3	254.7	227.5	223.2
80°	164.5	173.1	200.3	211.7	221.8	280.4	243.2	221.8	198.9	166.0	155.9
82.5°	101.6	107.3	134.5	144.5	140.2	157.4	155.9	158.8	141.6	103.0	95.9
85°	52.9	55.8	73.0	75.8	70.1	64.4	80.1	93.0	87.3	58.7	57.2
87.5°	11.4	12.9	15.7	14.3	15.7	15.7	20.0	30.0	31.5	20.0	18.6
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)