

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: P456687

Luminaire Tested: **GALN-SA8A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456687
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-SA8A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32230 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

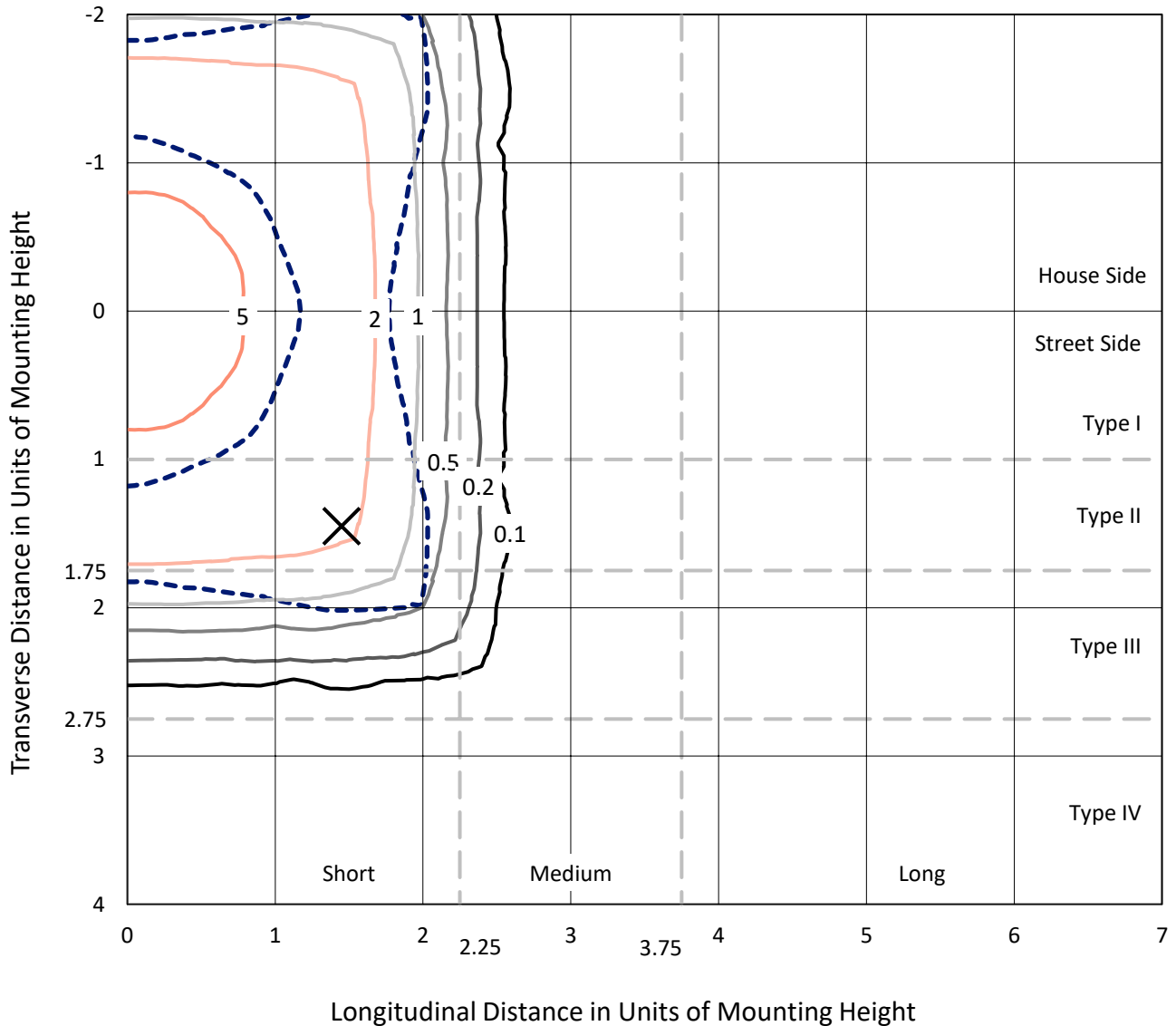
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

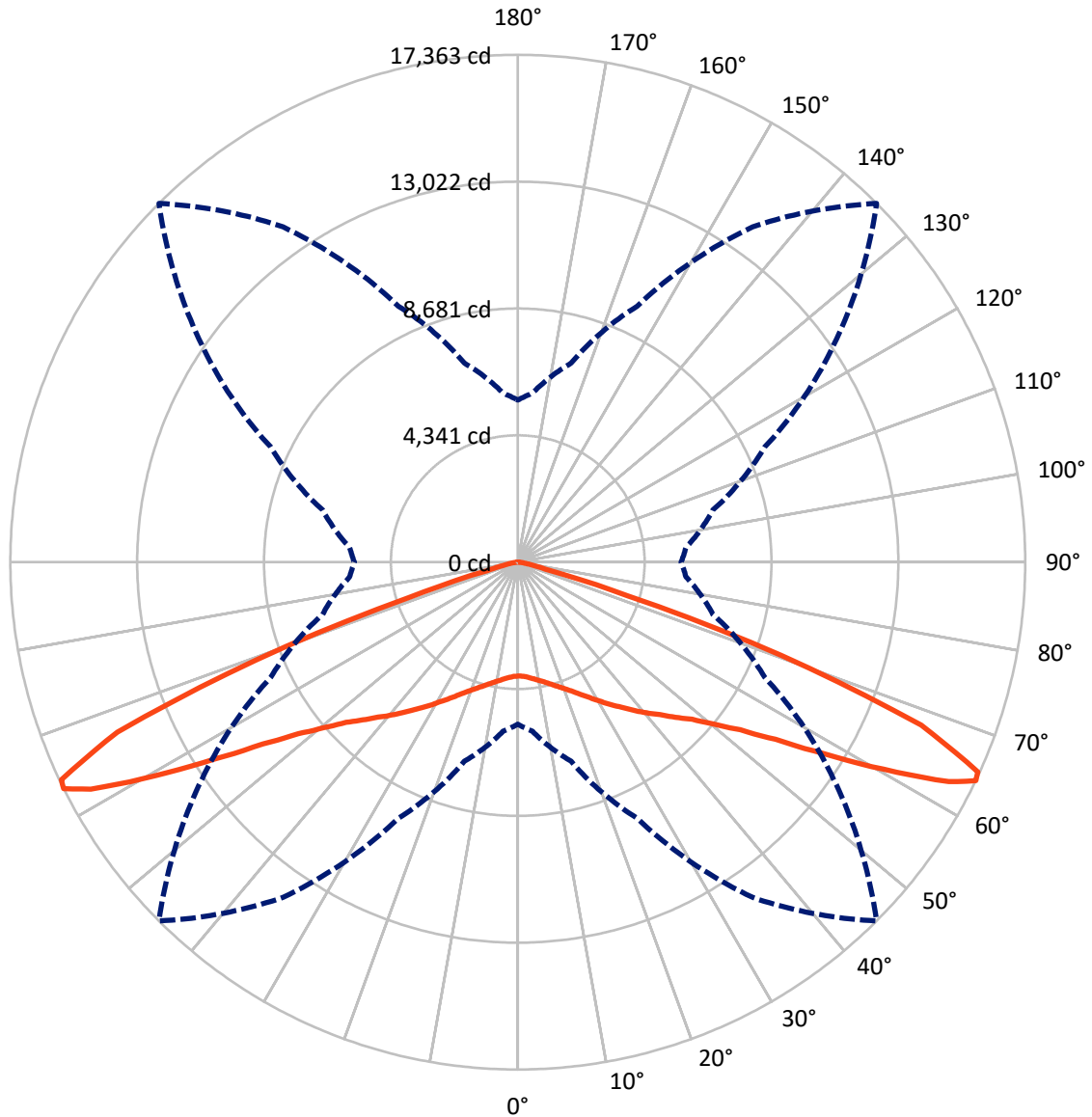
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	16115.0	0.0	16115.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16115.0	0.0	16115.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32230.0	0.0	32230.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.2
10°-20°	1234.5	3.8
20°-30°	2332.8	7.2
30°-40°	3863.4	12.0
40°-50°	6031.4	18.7
50°-60°	9324.4	28.9
60°-70°	8040.3	24.9
70°-80°	911.2	2.8
80°-90°	109.2	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°	32230.0	100.0
0°-180°	32230.0	100.0



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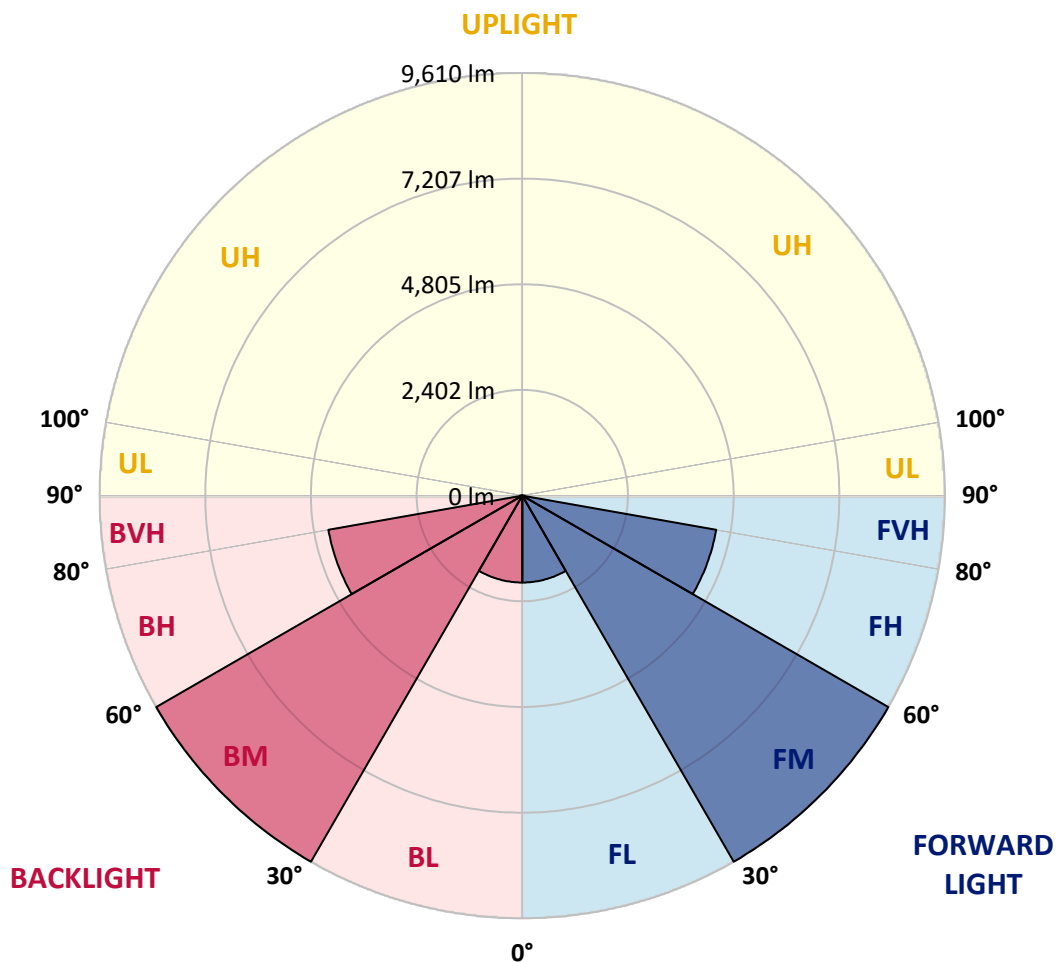
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1975.0	6.1			
FM	(30°-60°)	9609.6	29.8			
FH	(60°-80°)	4475.8	13.9			G2/5000
FVH	(80°-90°)	54.6	0.2			G1/100
BL	(0°-30°)	1975.0	6.1	B3/2500		
BM	(30°-60°)	9609.6	29.8	B5		
BH	(60°-80°)	4475.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	54.6	0.2			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°	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5
2.5°	3910.9	3919.4	3912.6	3910.9	3909.2	3909.2	3909.2	3910.9	3917.7	3922.9	3919.4
5°	3960.4	3967.2	3963.8	3962.1	3960.4	3962.1	3958.7	3957.0	3962.1	3962.1	3960.4
7.5°	4021.9	4030.4	4027.0	4030.4	4032.1	4033.8	4025.3	4018.4	4016.7	4021.9	4018.4
10°	4105.5	4112.3	4114.0	4115.7	4119.2	4117.5	4107.2	4095.3	4093.6	4091.9	4090.1
12.5°	4199.4	4204.5	4206.2	4213.1	4218.2	4219.9	4207.9	4197.7	4180.6	4184.0	4177.2
15°	4305.2	4315.5	4313.8	4324.0	4337.7	4341.1	4329.1	4312.1	4296.7	4288.2	4283.0
17.5°	4435.0	4441.8	4438.4	4448.6	4465.7	4474.2	4464.0	4441.8	4426.4	4407.7	4397.4
20°	4588.6	4600.6	4604.0	4604.0	4619.3	4627.9	4612.5	4605.7	4581.8	4568.1	4559.6
22.5°	4762.7	4767.9	4778.1	4788.3	4803.7	4800.3	4795.2	4784.9	4762.7	4750.8	4737.1
25°	4959.0	4964.2	4989.8	5012.0	5017.1	5013.7	5006.8	5001.7	4981.2	4953.9	4943.7
27.5°	5187.8	5198.0	5232.2	5252.7	5252.7	5254.4	5240.7	5257.8	5213.4	5181.0	5177.5
30°	5474.6	5481.4	5510.4	5530.9	5520.7	5512.1	5508.7	5525.8	5478.0	5420.0	5406.3
32.5°	5758.0	5781.9	5807.5	5851.8	5816.0	5800.6	5797.2	5809.2	5754.5	5689.7	5670.9
35°	6061.8	6078.9	6126.7	6164.2	6131.8	6096.0	6111.3	6148.9	6084.0	5996.9	5993.5
37.5°	6398.1	6413.5	6474.9	6514.2	6490.3	6428.8	6454.4	6498.8	6434.0	6326.4	6304.2
40°	6748.1	6780.5	6857.3	6898.3	6859.0	6777.1	6824.9	6872.7	6814.6	6690.0	6640.5
42.5°	7140.7	7191.9	7302.9	7323.3	7248.2	7137.3	7220.9	7297.7	7256.8	7113.4	7094.6
45°	7599.9	7630.6	7767.2	7811.6	7707.4	7569.2	7673.3	7813.3	7782.5	7617.0	7581.1
47.5°	8113.7	8142.7	8284.4	8351.0	8219.5	8033.5	8221.3	8403.9	8385.1	8207.6	8190.5
50°	8721.4	8728.3	8924.6	8999.7	8868.2	8707.8	8875.1	9102.1	9027.0	8800.0	8796.5
52.5°	9387.2	9395.7	9643.2	9788.3	9714.9	9534.0	9732.0	9870.3	9679.1	9382.1	9359.9
55°	9964.2	10006.9	10344.9	10730.7	10831.4	10699.9	10759.7	10694.8	10223.7	9807.1	9742.3
57.5°	10199.8	10283.4	10797.2	11517.6	12173.1	12367.7	11906.8	11288.9	10440.5	9851.5	9788.3
60°	9624.5	9714.9	10512.1	11879.5	13552.4	14397.4	13101.8	11389.6	9947.1	9119.2	9020.2
62.5°	7707.4	7733.0	8905.8	11027.7	14356.5	16544.9	13605.4	10530.9	8511.5	7386.5	7347.2
64°	5546.3	5809.2	7051.9	9668.9	14004.8	17362.6	13315.2	9327.4	6913.6	5775.0	5590.7
65°	4148.2	4219.9	5684.5	8257.1	13385.1	17301.2	12751.8	8176.9	5725.5	4419.6	4214.8
67.5°	1567.1	1575.6	2098.0	4115.7	9528.9	14885.7	9732.0	4448.6	2412.1	1744.6	1681.5
70°	650.4	662.3	769.9	1384.4	4095.3	9557.9	4692.7	1604.6	882.6	715.3	705.0
72.5°	476.3	483.1	515.5	614.5	1259.8	3924.6	1543.2	681.1	517.2	462.6	457.5
75°	373.8	377.3	401.2	452.4	587.2	1087.4	641.9	467.7	394.3	355.1	351.7
77.5°	285.1	293.6	310.7	344.8	394.3	515.5	425.1	349.9	303.9	271.4	266.3
80°	196.3	206.6	239.0	252.6	264.6	334.6	290.2	264.6	237.3	198.0	186.1
82.5°	121.2	128.0	160.5	172.4	167.3	187.8	186.1	189.5	169.0	122.9	114.4
85°	63.2	66.6	87.1	90.5	83.6	76.8	95.6	111.0	104.1	70.0	68.3
87.5°	13.7	15.4	18.8	17.1	18.8	18.8	23.9	35.8	37.6	23.9	22.2
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)