

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: P457848

Luminaire Tested: **GALN-SA9B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457848
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-SA9B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45151 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

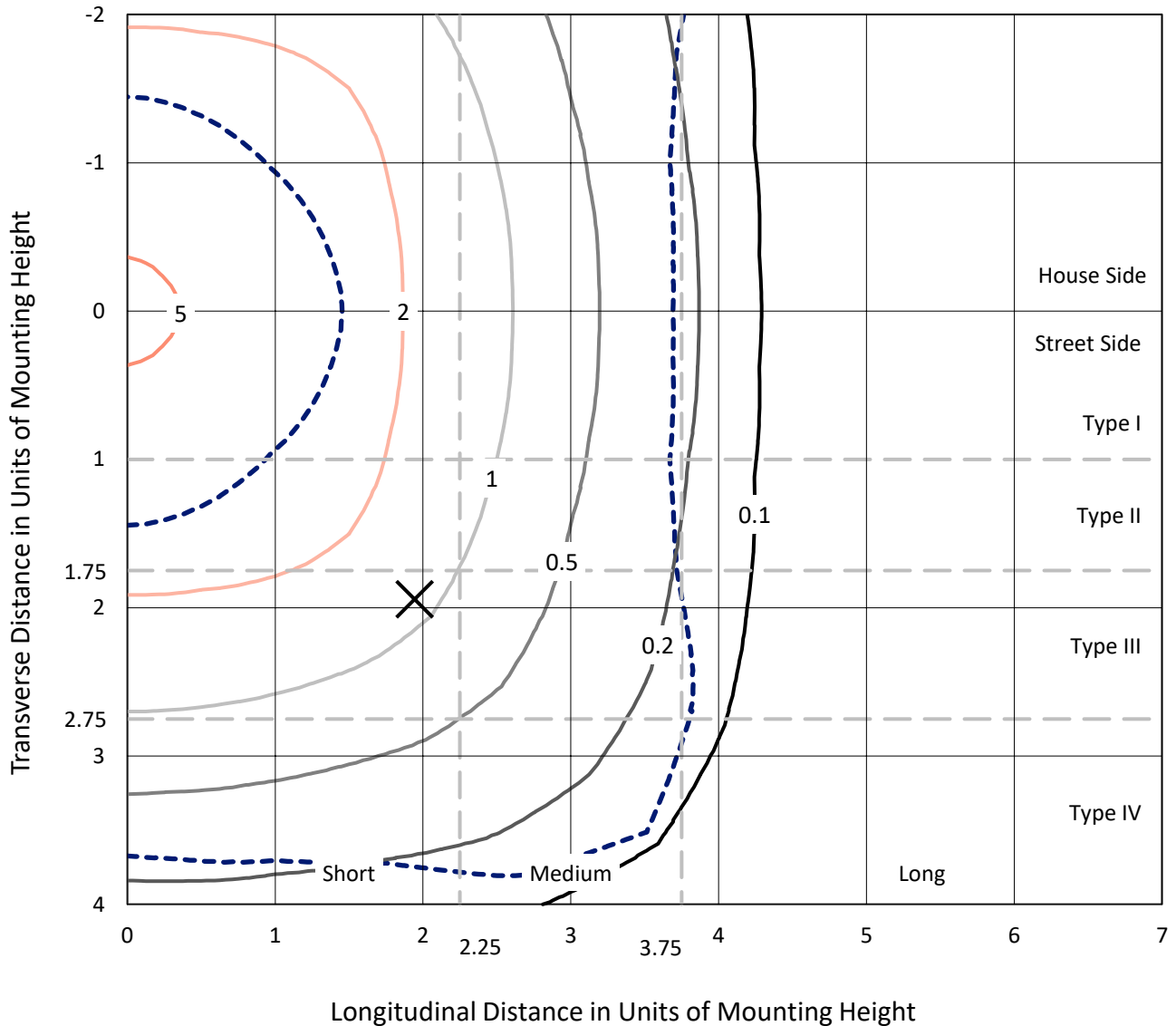
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

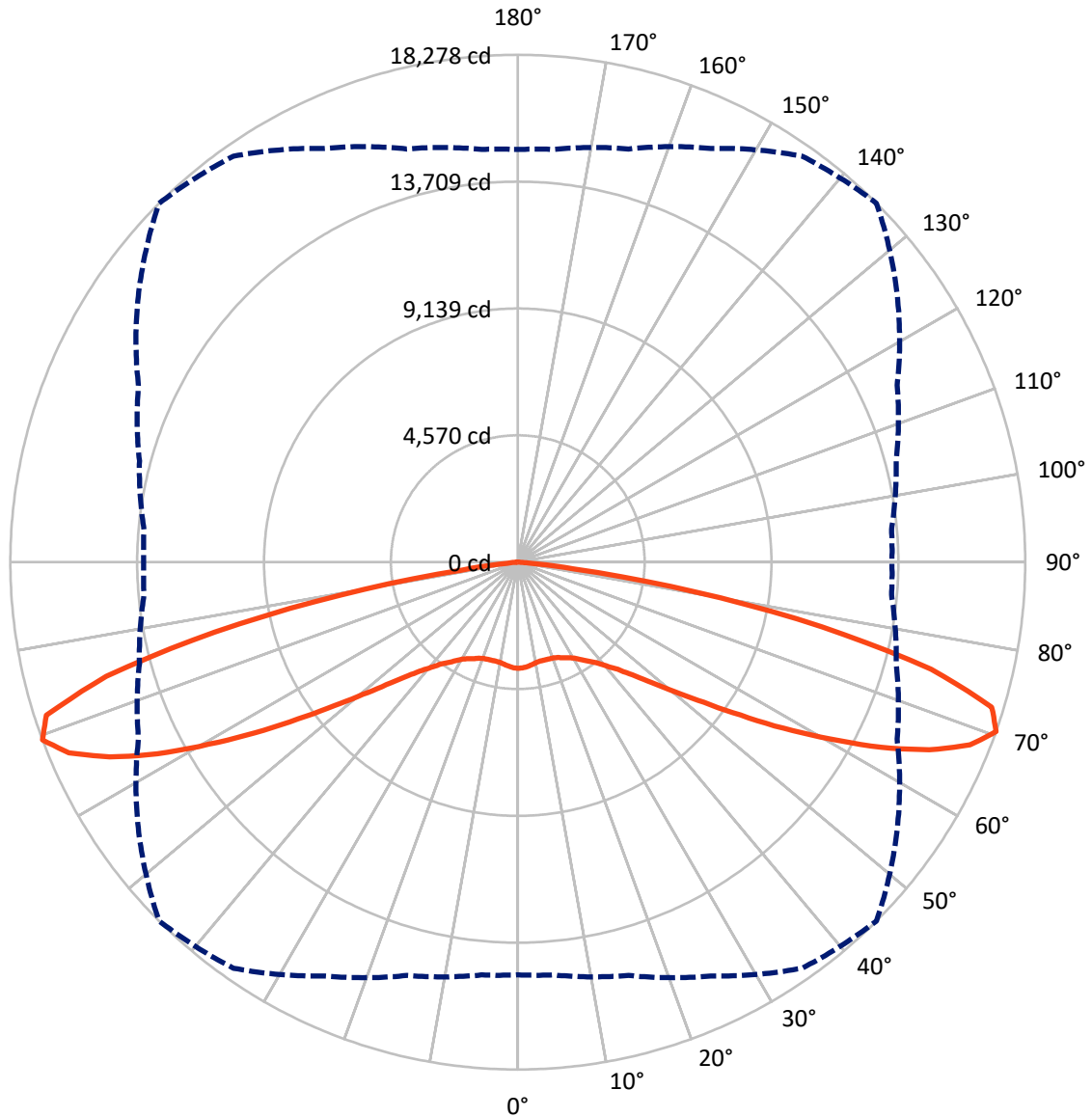
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22575.5	0.0	22575.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22575.5	0.0	22575.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45151.0	0.0	45151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.5	0.8
10°-20°	1046.6	2.3
20°-30°	1783.1	3.9
30°-40°	2763.8	6.1
40°-50°	4651.8	10.3
50°-60°	8463.7	18.7
60°-70°	14328.9	31.7
70°-80°	11091.1	24.6
80°-90°	664.6	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°	45151.0	100.0
0°-180°	45151.0	100.0



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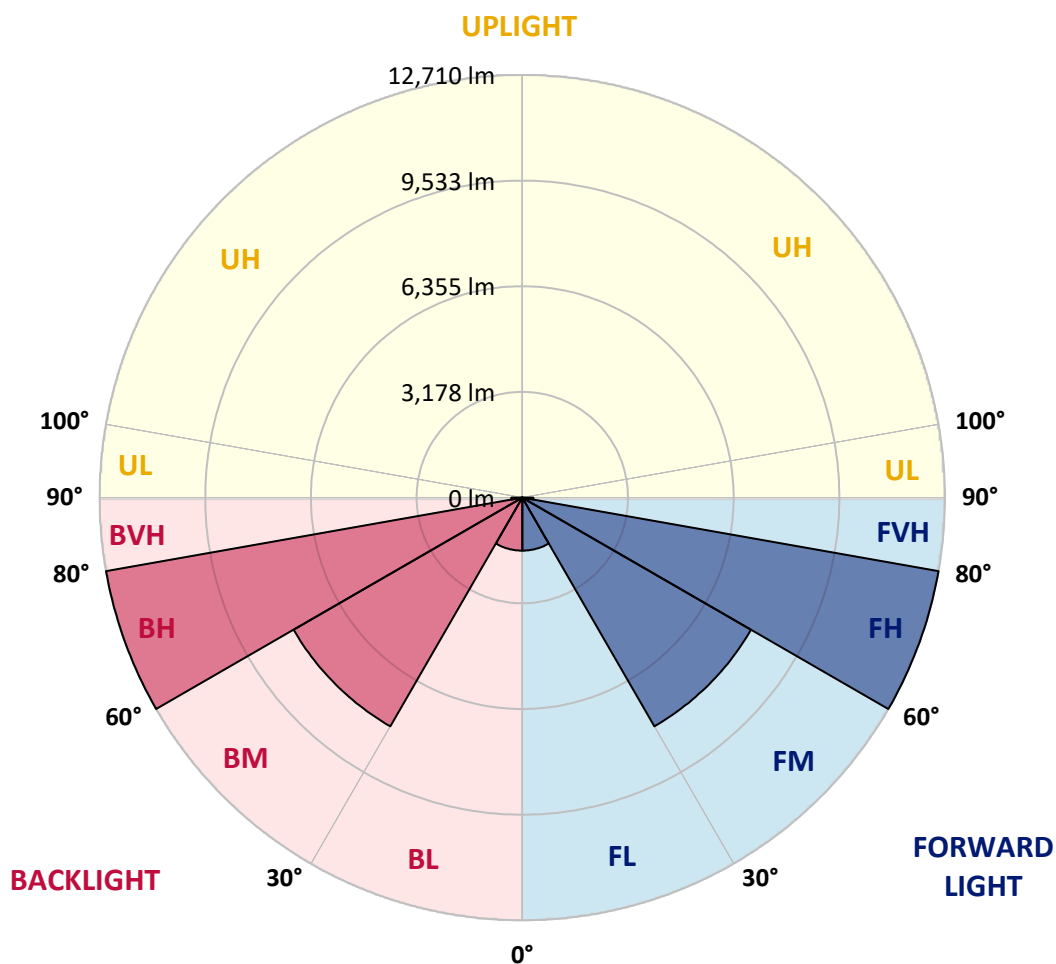
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.6	3.5			
FM (30°-60°)	7939.6	17.6			
FH (60°-80°)	12710.0	28.1			G5
FVH (80°-90°)	332.3	0.7			G3/500
BL (0°-30°)	1593.6	3.5	B3/2500		
BM (30°-60°)	7939.6	17.6	B4/8500		
BH (60°-80°)	12710.0	28.1	B5		G5
BVH (80°-90°)	332.3	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3822.6	3822.6	3822.6	3822.6	3822.6	3822.6	3822.6	3822.6	3822.6	3822.6	3822.6
2.5°	3813.0	3815.4	3815.4	3810.7	3808.3	3808.3	3805.9	3805.9	3813.0	3815.4	3817.8
5°	3779.7	3779.7	3779.7	3777.3	3772.5	3772.5	3767.7	3767.7	3770.1	3777.3	3772.5
7.5°	3734.4	3739.1	3739.1	3729.6	3722.4	3722.4	3720.0	3722.4	3724.8	3732.0	3729.6
10°	3720.0	3722.4	3710.5	3693.8	3681.9	3674.7	3677.1	3681.9	3693.8	3698.6	3701.0
12.5°	3729.6	3729.6	3708.1	3684.3	3662.8	3653.3	3650.9	3667.6	3689.0	3703.4	3708.1
15°	3741.5	3736.7	3710.5	3679.5	3658.0	3655.7	3653.3	3665.2	3696.2	3724.8	3727.2
17.5°	3748.7	3746.3	3712.9	3674.7	3662.8	3662.8	3660.4	3670.0	3703.4	3739.1	3741.5
20°	3772.5	3765.4	3727.2	3686.7	3677.1	3681.9	3674.7	3686.7	3722.4	3765.4	3774.9
22.5°	3820.2	3813.0	3774.9	3734.4	3729.6	3729.6	3727.2	3739.1	3777.3	3822.6	3829.7
25°	3877.4	3870.3	3834.5	3805.9	3810.7	3820.2	3815.4	3817.8	3848.8	3887.0	3898.9
27.5°	3953.7	3941.8	3910.8	3887.0	3901.3	3901.3	3901.3	3898.9	3918.0	3953.7	3965.7
30°	4046.7	4042.0	4008.6	4006.2	4018.1	4006.2	4006.2	4008.6	4011.0	4044.4	4056.3
32.5°	4168.4	4158.8	4142.1	4137.4	4170.7	4180.3	4146.9	4115.9	4132.6	4166.0	4173.1
35°	4368.7	4354.4	4330.5	4304.3	4330.5	4375.8	4304.3	4280.4	4323.4	4368.7	4373.4
37.5°	4640.5	4633.4	4595.2	4547.5	4545.1	4592.8	4518.9	4516.5	4597.6	4652.4	4659.6
40°	4981.5	4988.7	4941.0	4895.7	4871.8	4910.0	4852.8	4874.2	4952.9	5014.9	5010.1
42.5°	5460.8	5434.6	5360.7	5317.8	5291.5	5277.2	5262.9	5296.3	5384.5	5451.3	5503.8
45°	6021.2	6011.7	5918.7	5866.2	5809.0	5787.5	5782.8	5842.4	5949.7	6030.8	6037.9
47.5°	6655.5	6634.1	6574.5	6519.6	6498.2	6471.9	6448.1	6493.4	6600.7	6657.9	6674.6
50°	7308.9	7313.7	7313.7	7304.2	7325.6	7330.4	7266.0	7282.7	7342.3	7337.6	7332.8
52.5°	8055.3	8081.6	8205.6	8217.5	8320.0	8389.2	8272.3	8203.2	8181.7	8052.9	8062.5
55°	8932.9	8956.7	9142.7	9328.7	9605.3	9722.2	9476.6	9262.0	9109.3	8913.8	8923.3
57.5°	10027.4	10039.4	10215.8	10573.5	11012.3	11286.5	10854.9	10430.4	10120.4	9934.4	9860.5
60°	11205.4	11217.4	11474.9	11911.3	12593.3	12927.2	12393.0	11699.1	11308.0	11024.2	11043.3
62.5°	12619.5	12667.2	12898.5	13499.5	14326.9	14701.3	13993.1	13065.5	12536.1	12183.1	12197.5
65°	14133.8	14214.9	14467.6	15128.2	15891.3	16294.3	15426.3	14355.6	13697.4	13265.8	13311.1
67.5°	15116.3	15187.8	15552.7	16282.4	17233.8	17567.7	16446.9	15199.7	14377.0	13861.9	13766.6
70°	14865.9	14925.5	15412.0	16446.9	17856.2	18278.3	16690.1	15075.7	14107.6	13513.8	13475.6
72.5°	13122.7	12998.7	13709.3	15195.0	17145.6	17853.8	15924.7	13768.9	12550.4	11939.9	11868.4
75°	8696.8	8966.3	10015.5	11765.8	14505.8	15383.3	13592.5	11055.2	9521.9	9014.0	8935.3
77.5°	2906.9	3114.3	4046.7	6669.9	9889.1	11207.8	9903.4	7230.2	5115.1	4120.7	4139.7
80°	770.2	760.7	984.9	1833.8	4273.3	6491.0	4974.4	2449.0	1340.2	970.6	920.5
82.5°	276.6	310.0	398.2	507.9	1132.7	2017.4	1423.6	686.8	503.2	372.0	360.1
85°	121.6	119.2	171.7	202.7	283.8	376.8	333.9	290.9	255.2	169.3	157.4
87.5°	26.2	26.2	40.5	31.0	50.1	50.1	62.0	73.9	76.3	50.1	40.5
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)