

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: P459094

Luminaire Tested: **GALN-SA6A-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459094
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-SA6A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 26364 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

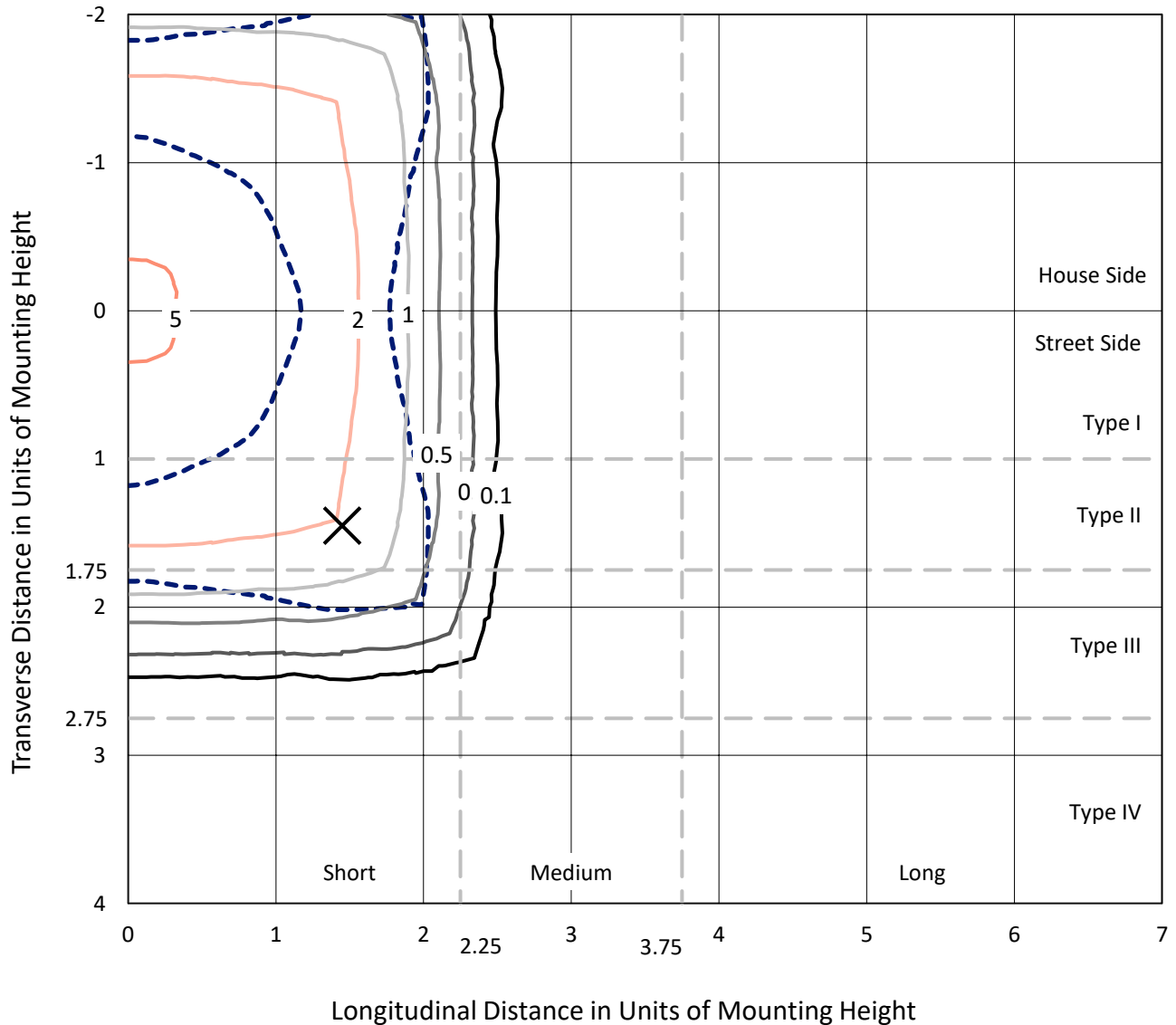
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

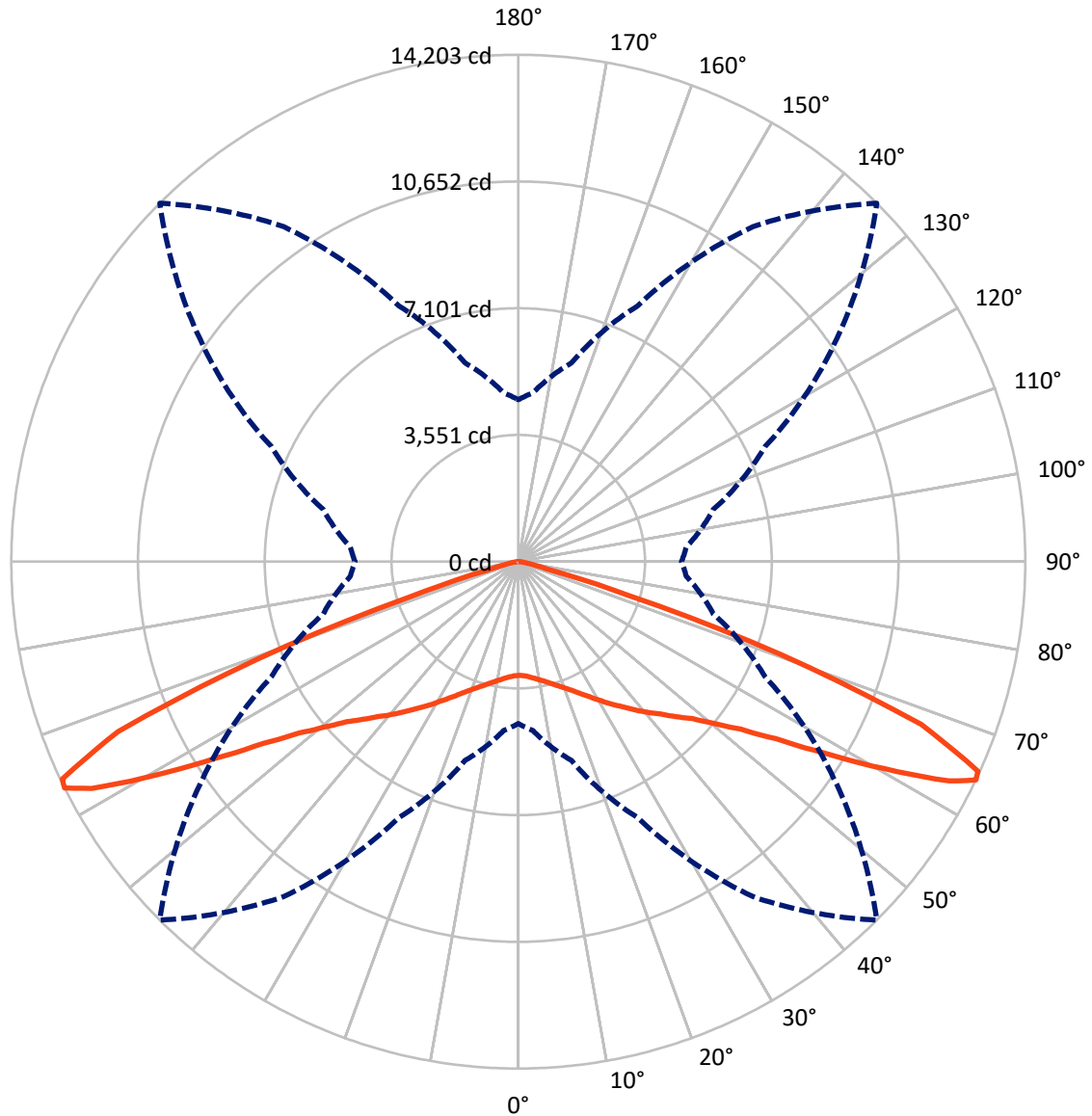
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	13182.0	0.0	13182.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13182.0	0.0	13182.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26364.0	0.0	26364.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.2
10°-20°	1009.8	3.8
20°-30°	1908.2	7.2
30°-40°	3160.3	12.0
40°-50°	4933.7	18.7
50°-60°	7627.4	28.9
60°-70°	6577.0	24.9
70°-80°	745.3	2.8
80°-90°	89.3	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°	26364.0	100.0
0°-180°	26364.0	100.0



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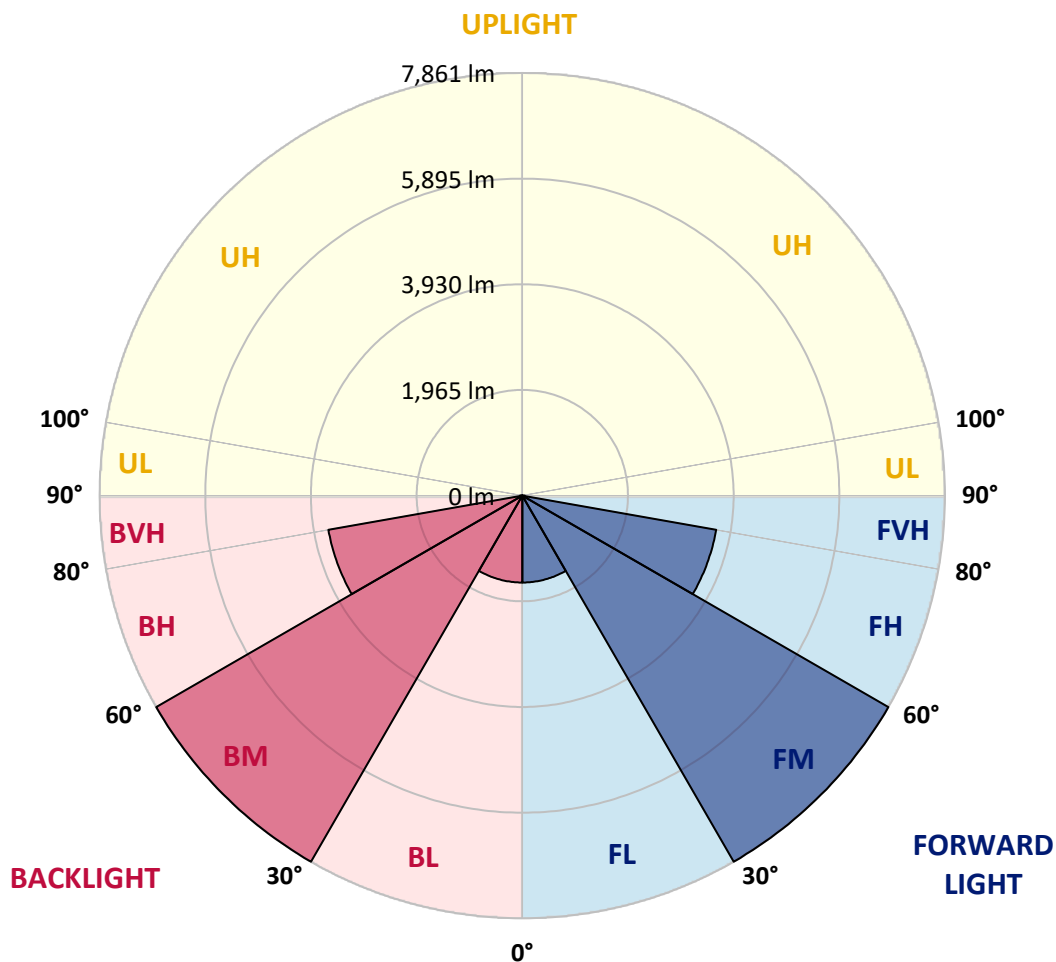
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1615.5	6.1			
FM	(30°-60°)	7860.6	29.8			
FH	(60°-80°)	3661.2	13.9			G2/5000
FVH	(80°-90°)	44.6	0.2			G1/100
BL	(0°-30°)	1615.5	6.1	B3/2500		
BM	(30°-60°)	7860.6	29.8	B4/8500		
BH	(60°-80°)	3661.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	44.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3186.5	3186.5	3186.5	3186.5	3186.5	3186.5	3186.5	3186.5	3186.5	3186.5	3186.5
2.5°	3199.1	3206.1	3200.5	3199.1	3197.7	3197.7	3197.7	3199.1	3204.7	3208.9	3206.1
5°	3239.6	3245.2	3242.4	3241.0	3239.6	3241.0	3238.2	3236.8	3241.0	3241.0	3239.6
7.5°	3289.9	3296.8	3294.1	3296.8	3298.2	3299.6	3292.7	3287.1	3285.7	3289.9	3287.1
10°	3358.3	3363.9	3365.3	3366.7	3369.5	3368.1	3359.7	3349.9	3348.5	3347.1	3345.7
12.5°	3435.1	3439.3	3440.7	3446.3	3450.4	3451.8	3442.1	3433.7	3419.7	3422.5	3416.9
15°	3521.7	3530.0	3528.6	3537.0	3548.2	3551.0	3541.2	3527.2	3514.7	3507.7	3503.5
17.5°	3627.8	3633.4	3630.6	3639.0	3652.9	3659.9	3651.5	3633.4	3620.8	3605.4	3597.1
20°	3753.5	3763.2	3766.0	3766.0	3778.6	3785.6	3773.0	3767.4	3747.9	3736.7	3729.7
22.5°	3895.9	3900.1	3908.5	3916.8	3929.4	3926.6	3922.4	3914.0	3895.9	3886.1	3874.9
25°	4056.5	4060.7	4081.6	4099.8	4104.0	4101.2	4095.6	4091.4	4074.6	4052.3	4043.9
27.5°	4243.6	4252.0	4279.9	4296.7	4296.7	4298.0	4286.9	4300.8	4264.5	4238.0	4235.2
30°	4478.2	4483.8	4507.5	4524.3	4515.9	4508.9	4506.1	4520.1	4481.0	4433.5	4422.3
32.5°	4710.0	4729.5	4750.5	4786.8	4757.5	4744.9	4742.1	4751.9	4707.2	4654.1	4638.8
35°	4958.5	4972.5	5011.6	5042.3	5015.8	4986.5	4999.0	5029.8	4976.7	4905.5	4902.7
37.5°	5233.6	5246.2	5296.5	5328.6	5309.0	5258.8	5279.7	5316.0	5262.9	5175.0	5156.8
40°	5519.9	5546.4	5609.2	5642.8	5610.6	5543.6	5582.7	5621.8	5574.3	5472.4	5431.9
42.5°	5841.0	5882.9	5973.7	5990.5	5929.0	5838.3	5906.7	5969.5	5936.0	5818.7	5803.3
45°	6216.7	6241.8	6353.5	6389.8	6304.6	6191.5	6276.7	6391.2	6366.1	6230.6	6201.3
47.5°	6637.0	6660.7	6776.6	6831.1	6723.6	6571.4	6725.0	6874.4	6859.0	6713.8	6699.8
50°	7134.1	7139.7	7300.3	7361.7	7254.2	7122.9	7259.8	7445.5	7384.0	7198.3	7195.5
52.5°	7678.7	7685.7	7888.1	8006.8	7946.8	7798.8	7960.7	8073.9	7917.5	7674.5	7656.3
55°	8150.7	8185.6	8462.0	8777.6	8860.0	8752.5	8801.4	8748.3	8362.9	8022.2	7969.1
57.5°	8343.4	8411.8	8832.1	9421.4	9957.6	10116.8	9739.7	9234.2	8540.2	8058.5	8006.8
60°	7872.8	7946.8	8598.9	9717.4	11085.8	11777.0	10717.2	9316.6	8136.7	7459.4	7378.5
62.5°	6304.6	6325.6	7284.9	9020.6	11743.5	13533.7	11129.1	8614.3	6962.3	6042.1	6010.0
64°	4536.8	4751.9	5768.4	7909.1	11455.9	14202.6	10891.7	7629.8	5655.3	4723.9	4573.1
65°	3393.2	3451.8	4649.9	6754.3	10949.0	14152.3	10430.9	6688.6	4683.4	3615.2	3447.7
67.5°	1281.9	1288.9	1716.1	3366.7	7794.6	12176.4	7960.7	3639.0	1973.1	1427.1	1375.4
70°	532.0	541.8	629.8	1132.5	3349.9	7818.3	3838.6	1312.6	721.9	585.1	576.7
72.5°	389.6	395.2	421.7	502.7	1030.5	3210.3	1262.3	557.2	423.1	378.4	374.2
75°	305.8	308.6	328.1	370.0	480.4	889.5	525.0	382.6	322.6	290.4	287.7
77.5°	233.2	240.2	254.1	282.1	322.6	421.7	347.7	286.3	248.6	222.0	217.8
80°	160.6	169.0	195.5	206.7	216.4	273.7	237.4	216.4	194.1	162.0	152.2
82.5°	99.1	104.7	131.3	141.0	136.8	153.6	152.2	155.0	138.2	100.5	93.6
85°	51.7	54.5	71.2	74.0	68.4	62.8	78.2	90.8	85.2	57.3	55.9
87.5°	11.2	12.6	15.4	14.0	15.4	15.4	19.5	29.3	30.7	19.5	18.2
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)