

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: P459326

Luminaire Tested: **GALN-SA8A-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459326
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-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 35901 lumens
Efficiency: N/A
Efficacy: 147.1 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

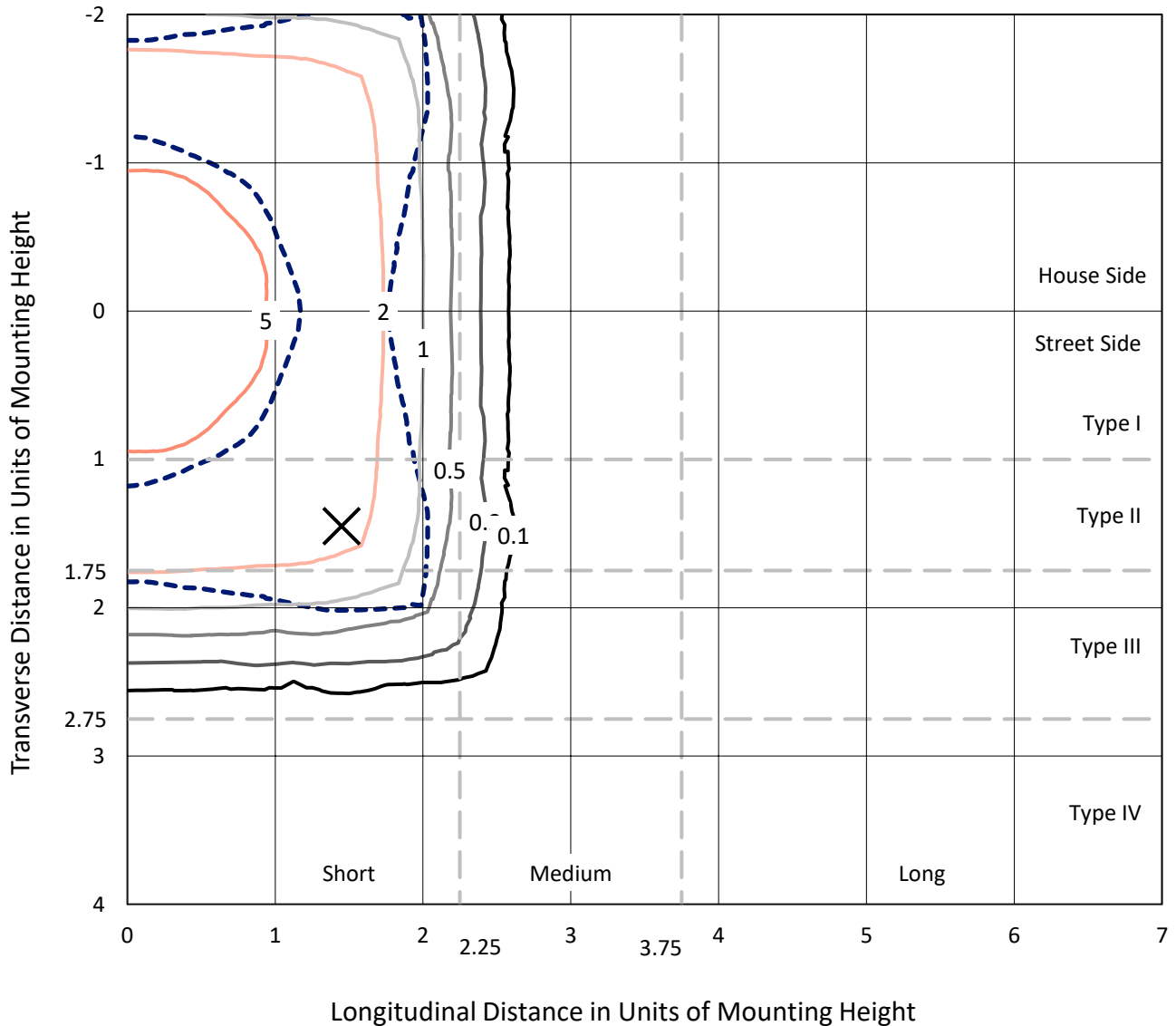
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

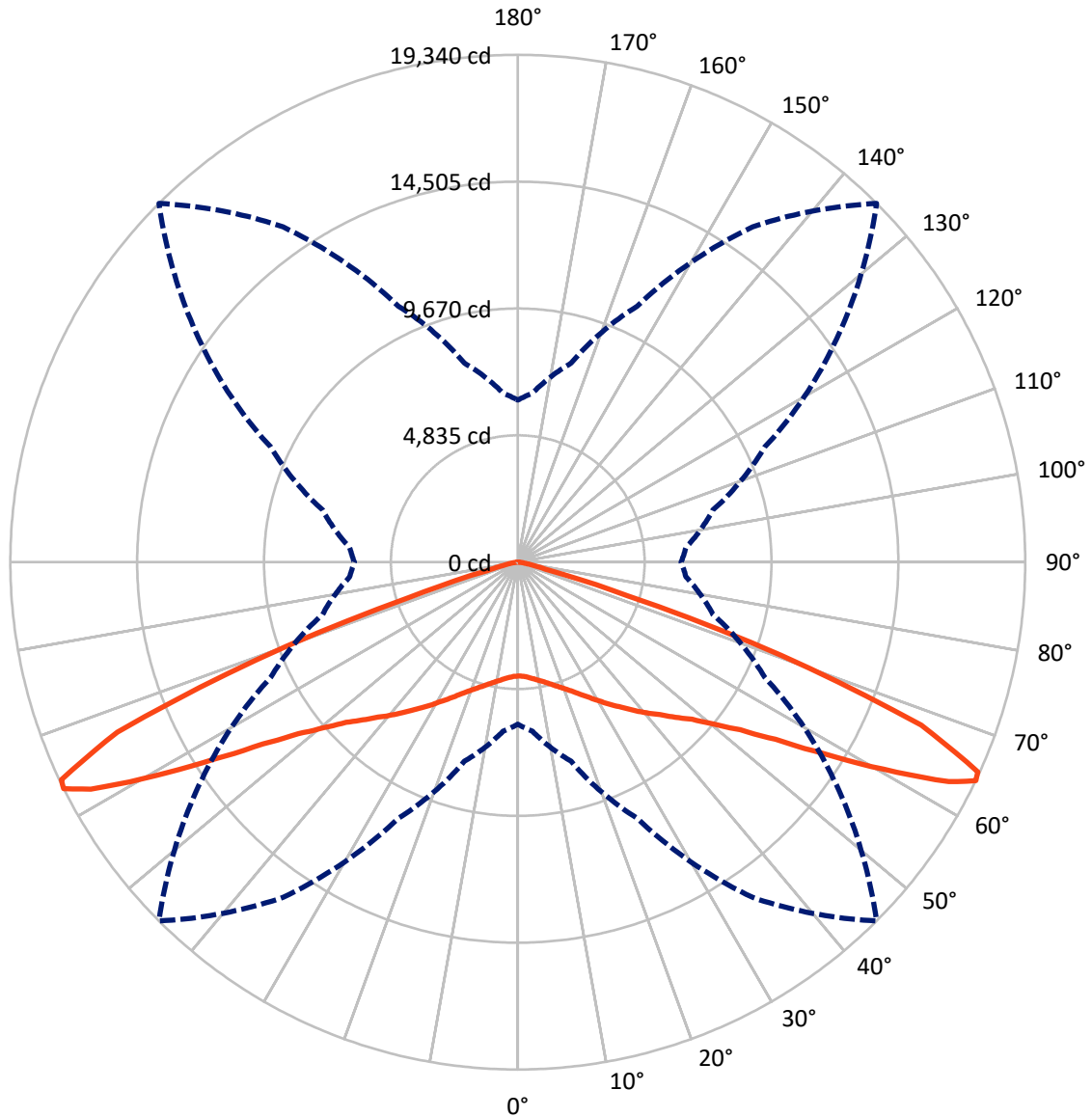
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	17950.5	0.0	17950.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17950.5	0.0	17950.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35901.0	0.0	35901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.3	1.2
10°-20°	1375.1	3.8
20°-30°	2598.5	7.2
30°-40°	4303.5	12.0
40°-50°	6718.4	18.7
50°-60°	10386.5	28.9
60°-70°	8956.1	24.9
70°-80°	1015.0	2.8
80°-90°	121.6	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°	35901.0	100.0
0°-180°	35901.0	100.0

Coefficient of Utilization



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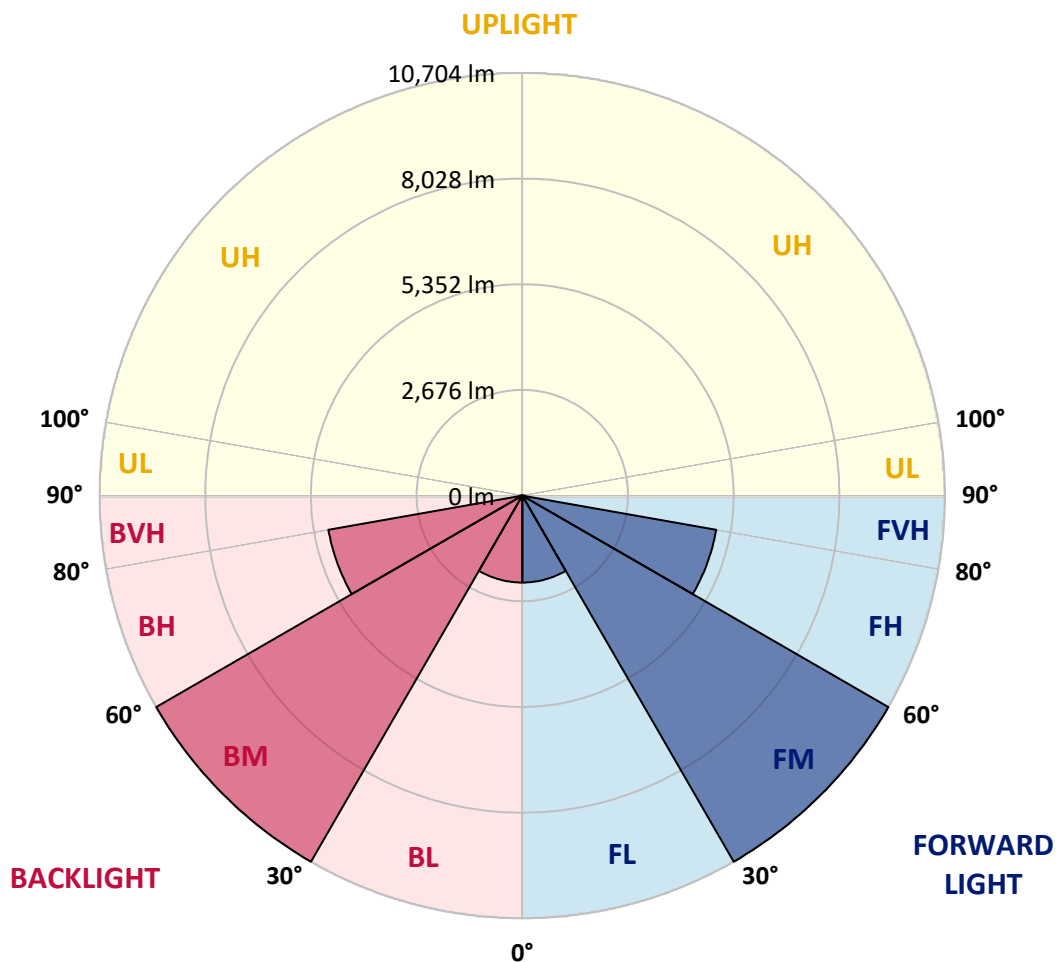
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2200.0	6.1			
FM	(30°-60°)	10704.2	29.8			
FH	(60°-80°)	4985.6	13.9			G2/5000
FVH	(80°-90°)	60.8	0.2			G1/100
BL	(0°-30°)	2200.0	6.1	B3/2500		
BM	(30°-60°)	10704.2	29.8	B5		
BH	(60°-80°)	4985.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	60.8	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°	4339.2	4339.2	4339.2	4339.2	4339.2	4339.2	4339.2	4339.2	4339.2	4339.2	4339.2
2.5°	4356.4	4365.9	4358.3	4356.4	4354.5	4354.5	4354.5	4356.4	4364.0	4369.7	4365.9
5°	4411.5	4419.1	4415.3	4413.4	4411.5	4413.4	4409.6	4407.7	4413.4	4413.4	4411.5
7.5°	4480.0	4489.5	4485.7	4489.5	4491.4	4493.3	4483.8	4476.1	4474.2	4480.0	4476.1
10°	4573.1	4580.7	4582.6	4584.5	4588.3	4586.4	4575.0	4561.7	4559.8	4557.9	4556.0
12.5°	4677.7	4683.4	4685.3	4692.9	4698.6	4700.5	4687.2	4675.8	4656.8	4660.6	4653.0
15°	4795.6	4807.0	4805.1	4816.5	4831.7	4835.5	4822.2	4803.2	4786.1	4776.6	4770.9
17.5°	4940.1	4947.7	4943.9	4955.3	4974.3	4983.9	4972.4	4947.7	4930.6	4909.7	4898.3
20°	5111.3	5124.6	5128.4	5128.4	5145.5	5155.0	5137.9	5130.3	5103.6	5088.4	5078.9
22.5°	5305.2	5310.9	5322.3	5333.7	5350.8	5347.0	5341.3	5329.9	5305.2	5291.9	5276.7
25°	5523.9	5529.6	5558.1	5582.8	5588.5	5584.7	5577.1	5571.4	5548.6	5518.2	5506.8
27.5°	5778.7	5790.1	5828.1	5850.9	5850.9	5852.8	5837.6	5856.6	5807.2	5771.1	5767.3
30°	6098.1	6105.7	6138.1	6160.9	6149.5	6140.0	6136.2	6155.2	6101.9	6037.3	6022.1
32.5°	6413.8	6440.4	6468.9	6518.4	6478.4	6461.3	6457.5	6470.8	6410.0	6337.7	6316.8
35°	6752.3	6771.3	6824.5	6866.3	6830.2	6790.3	6807.4	6849.2	6777.0	6680.0	6676.2
37.5°	7126.8	7144.0	7212.4	7256.2	7229.5	7161.1	7189.6	7239.0	7166.8	7047.0	7022.3
40°	7516.7	7552.8	7638.4	7684.0	7640.3	7549.0	7602.2	7655.5	7590.8	7452.0	7396.9
42.5°	7954.0	8011.1	8134.6	8157.5	8073.8	7950.2	8043.4	8128.9	8083.3	7923.6	7902.7
45°	8465.5	8499.7	8651.9	8701.3	8585.3	8431.3	8547.3	8703.2	8669.0	8484.5	8444.6
47.5°	9037.9	9070.2	9228.0	9302.2	9155.8	8948.5	9157.7	9361.1	9340.2	9142.4	9123.4
50°	9714.8	9722.4	9941.1	10024.7	9878.3	9699.6	9885.9	10138.8	10055.2	9802.3	9798.5
52.5°	10456.4	10465.9	10741.6	10903.2	10821.5	10619.9	10840.5	10994.5	10781.5	10450.7	10426.0
55°	11099.1	11146.6	11523.1	11952.9	12065.1	11918.6	11985.2	11912.9	11388.1	10924.2	10851.9
57.5°	11361.5	11454.7	12027.0	12829.5	13559.6	13776.4	13263.0	12574.7	11629.6	10973.6	10903.2
60°	10720.7	10821.5	11709.5	13232.6	15096.1	16037.3	14594.1	12686.9	11080.1	10157.9	10047.6
62.5°	8585.3	8613.8	9920.2	12283.7	15991.7	18429.4	15155.0	11730.4	9480.9	8227.8	8184.1
64°	6178.0	6470.8	7855.1	10770.1	15600.0	19340.2	14831.8	10389.8	7701.1	6432.8	6227.4
65°	4620.7	4700.5	6332.0	9197.6	14909.7	19271.8	14204.3	9108.2	6377.7	4923.0	4694.8
67.5°	1745.6	1755.1	2337.0	4584.5	10614.2	16581.1	10840.5	4955.3	2686.8	1943.3	1873.0
70°	724.5	737.8	857.6	1542.1	4561.7	10646.5	5227.2	1787.4	983.1	796.7	785.3
72.5°	530.5	538.1	574.3	684.5	1403.3	4371.6	1719.0	758.7	576.2	515.3	509.6
75°	416.4	420.2	446.9	503.9	654.1	1211.3	715.0	521.0	439.2	395.5	391.7
77.5°	317.6	327.1	346.1	384.1	439.2	574.3	473.5	389.8	338.5	302.3	296.6
80°	218.7	230.1	266.2	281.4	294.7	372.7	323.3	294.7	264.3	220.6	207.3
82.5°	135.0	142.6	178.7	192.1	186.3	209.2	207.3	211.1	188.2	136.9	127.4
85°	70.4	74.2	97.0	100.8	93.2	85.6	106.5	123.6	116.0	78.0	76.1
87.5°	15.2	17.1	20.9	19.0	20.9	20.9	26.6	39.9	41.8	26.6	24.7
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)