

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: P459354

Luminaire Tested: **GALN-SA8B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44893 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

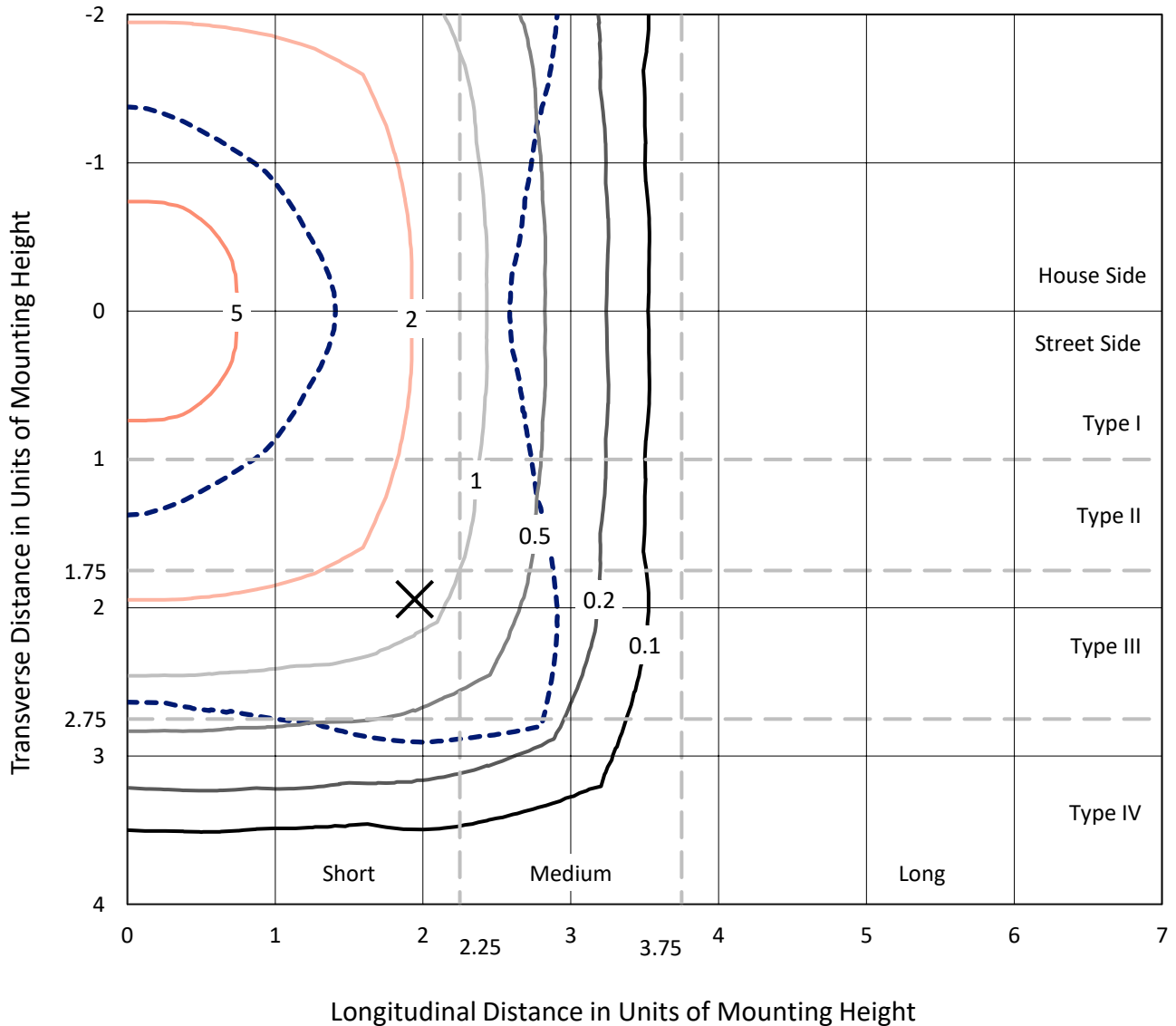
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

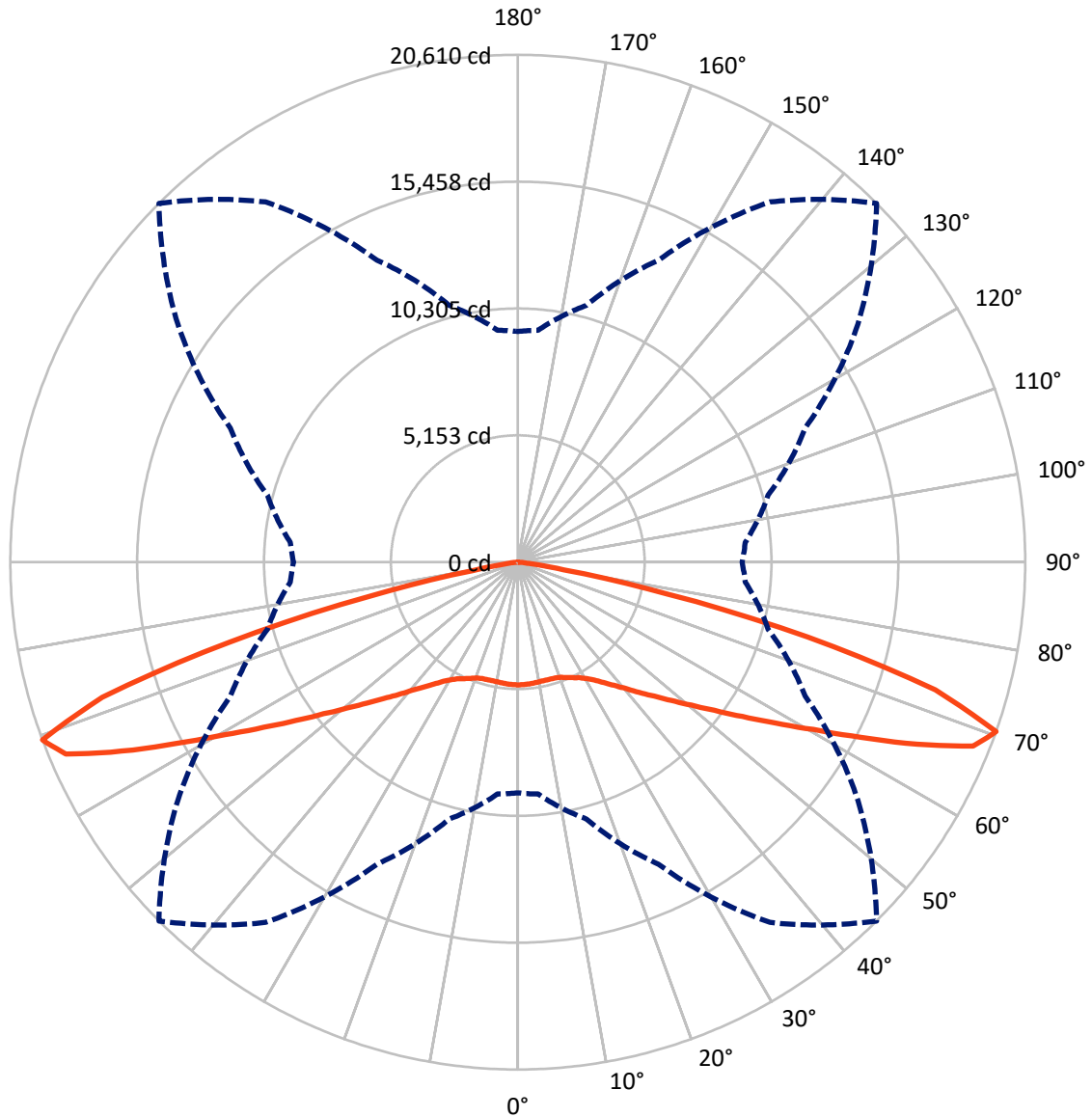
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	22446.5	0.0	22446.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22446.5	0.0	22446.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44893.0	0.0	44893.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.7	1.1
10°-20°	1387.2	3.1
20°-30°	2372.5	5.3
30°-40°	3765.7	8.4
40°-50°	6075.1	13.5
50°-60°	9884.4	22.0
60°-70°	14328.8	31.9
70°-80°	6355.7	14.2
80°-90°	250.7	0.6
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°	44893.0	100.0
0°-180°	44893.0	100.0



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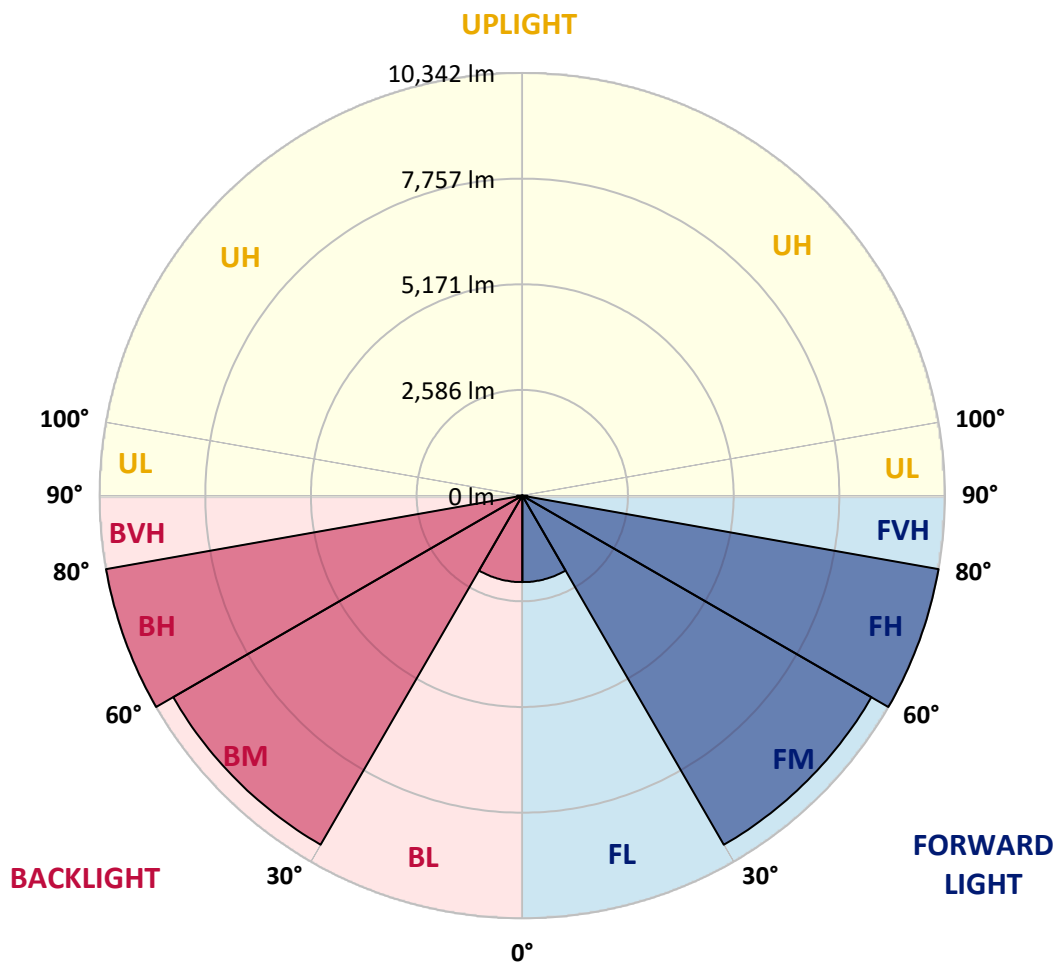
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.2	4.7			
FM (30°-60°)	9862.6	22.0			
FH (60°-80°)	10342.3	23.0			G4/12000
FVH (80°-90°)	125.3	0.3			G2/225
BL (0°-30°)	2116.2	4.7	B3/2500		
BM (30°-60°)	9862.6	22.0	B5		
BH (60°-80°)	10342.3	23.0	B5		G4/12000
BVH (80°-90°)	125.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4985.2	4985.2	4985.2	4985.2	4985.2	4985.2	4985.2	4985.2	4985.2	4985.2	4985.2
2.5°	4985.2	4989.9	4982.8	4978.1	4975.7	4975.7	4973.3	4975.7	4989.9	4992.3	4985.2
5°	4971.0	4975.7	4973.3	4968.6	4966.2	4966.2	4963.9	4961.5	4973.3	4978.1	4975.7
7.5°	4952.0	4954.4	4952.0	4949.7	4952.0	4949.7	4942.6	4937.8	4947.3	4947.3	4944.9
10°	4918.9	4923.6	4921.3	4923.6	4928.4	4928.4	4918.9	4909.4	4911.8	4907.1	4907.1
12.5°	4878.7	4885.8	4888.2	4897.6	4909.4	4923.6	4902.3	4881.1	4876.3	4874.0	4871.6
15°	4852.7	4859.8	4869.2	4878.7	4900.0	4930.7	4900.0	4866.9	4857.4	4847.9	4843.2
17.5°	4845.6	4855.0	4869.2	4883.4	4911.8	4942.6	4916.5	4883.4	4859.8	4845.6	4840.8
20°	4864.5	4871.6	4892.9	4918.9	4959.1	4989.9	4963.9	4928.4	4892.9	4871.6	4864.5
22.5°	4902.3	4914.2	4940.2	4987.5	5044.3	5089.3	5053.8	4994.6	4937.8	4909.4	4900.0
25°	4985.2	4994.6	5025.4	5089.3	5155.5	5198.1	5160.2	5091.6	5013.5	4975.7	4963.9
27.5°	5110.6	5124.7	5157.9	5233.6	5288.0	5311.7	5285.6	5238.3	5181.5	5141.3	5131.8
30°	5288.0	5304.6	5354.3	5434.7	5470.2	5484.4	5472.6	5441.8	5401.6	5359.0	5349.5
32.5°	5527.0	5536.4	5593.2	5668.9	5702.1	5706.8	5692.6	5678.4	5612.1	5541.2	5536.4
35°	5794.3	5810.9	5879.5	5969.4	6000.2	6002.5	5974.1	5952.8	5874.8	5818.0	5818.0
37.5°	6149.2	6156.3	6222.6	6324.3	6357.4	6348.0	6333.8	6314.8	6232.0	6158.7	6161.1
40°	6565.6	6579.8	6636.6	6754.9	6754.9	6743.1	6752.6	6738.4	6655.6	6584.6	6586.9
42.5°	7060.1	7067.2	7135.8	7261.2	7251.8	7228.1	7237.6	7218.7	7166.6	7086.2	7057.8
45°	7587.8	7616.1	7734.4	7855.1	7836.2	7760.5	7798.3	7793.6	7746.3	7625.6	7632.7
47.5°	8224.2	8271.5	8385.1	8529.4	8508.1	8389.8	8432.4	8460.8	8394.6	8262.1	8238.4
50°	8941.1	8971.9	9139.8	9274.7	9255.8	9130.4	9227.4	9232.1	9066.5	8879.6	8879.6
52.5°	9705.3	9736.1	9963.2	10173.8	10185.6	10003.4	10081.5	10076.8	9807.1	9561.0	9513.7
55°	10561.8	10576.0	10869.4	11179.3	11245.6	11068.1	11077.6	10983.0	10632.8	10346.5	10320.5
57.5°	11446.7	11498.7	11822.9	12225.1	12421.5	12312.6	12263.0	12009.8	11671.5	11342.6	11326.0
60°	12426.2	12428.6	12849.7	13325.3	13722.8	13796.1	13592.7	13254.3	12816.6	12381.3	12362.3
62.5°	13105.3	13207.0	13739.3	14543.8	15255.9	15667.6	15130.6	14420.8	13559.5	12856.8	12785.8
65°	13244.9	13313.5	14125.0	15487.8	16942.9	17830.2	16588.0	15078.5	13609.2	12672.3	12625.0
67.5°	12116.3	12189.6	13282.7	15374.2	18125.9	19945.4	17534.4	14761.5	12766.9	11607.6	11515.3
70°	9371.7	9454.5	10805.5	13533.5	17863.3	20610.2	16860.1	12875.8	10528.7	9277.1	9109.1
72.5°	4982.8	5288.0	6442.6	9288.9	14498.8	17745.0	13824.5	9395.4	6790.4	5550.6	5328.2
75°	1819.5	1857.3	2500.9	4119.2	8434.8	12168.3	8758.9	4481.2	2576.6	1989.8	1888.1
77.5°	752.4	750.0	823.4	1244.5	3064.0	6232.0	3418.9	1315.5	821.0	759.5	750.0
80°	444.8	444.8	489.8	518.2	806.8	1881.0	901.4	586.8	492.1	449.5	456.6
82.5°	198.7	210.6	309.9	326.5	390.4	515.8	435.3	373.8	321.8	222.4	201.1
85°	108.8	94.6	163.3	170.4	186.9	191.6	205.8	203.5	186.9	108.8	111.2
87.5°	21.3	26.0	47.3	35.5	40.2	35.5	47.3	66.2	68.6	37.9	30.8
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)