

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: P456720

Luminaire Tested: **GALN-SA8A-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34698 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

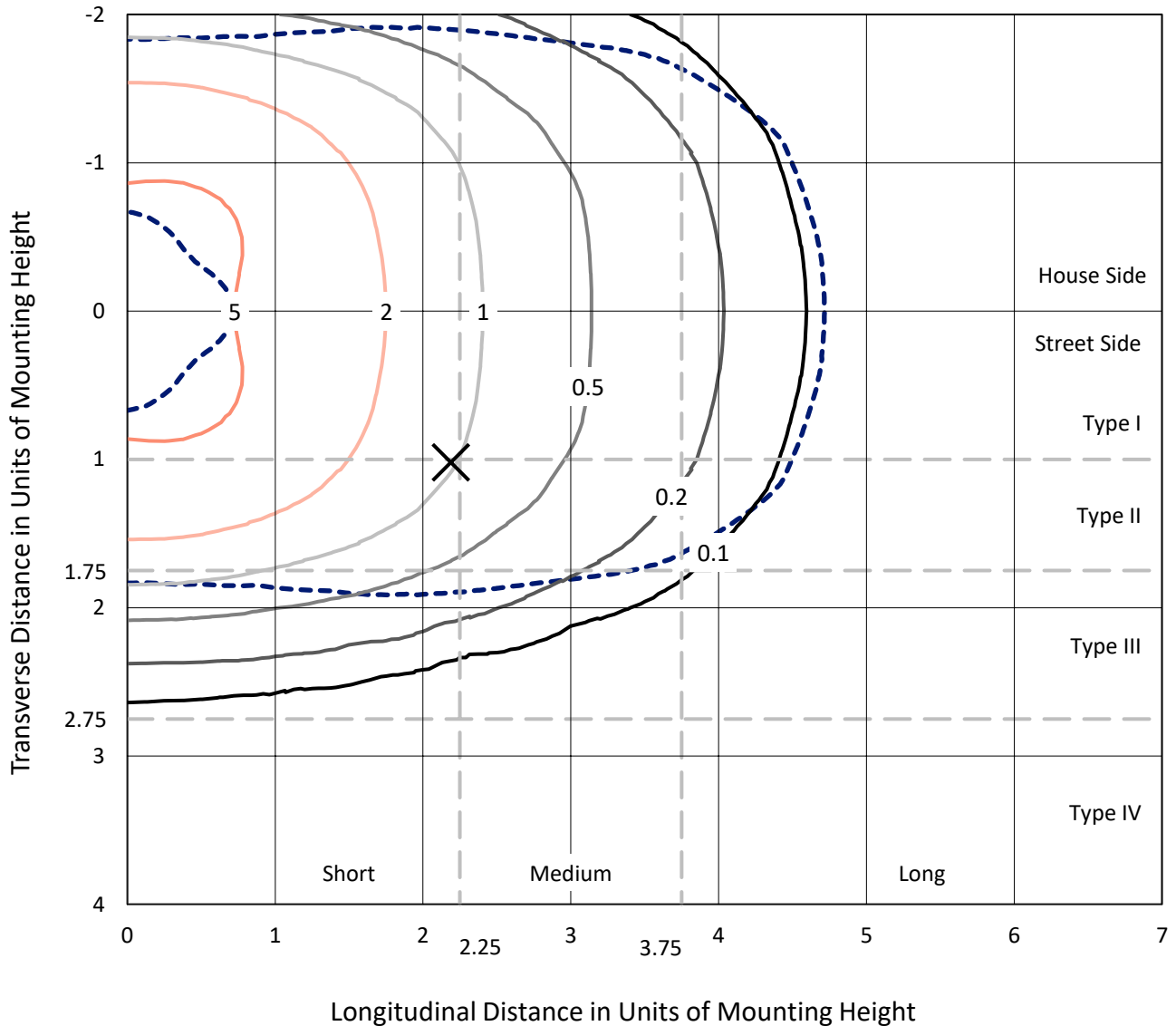
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

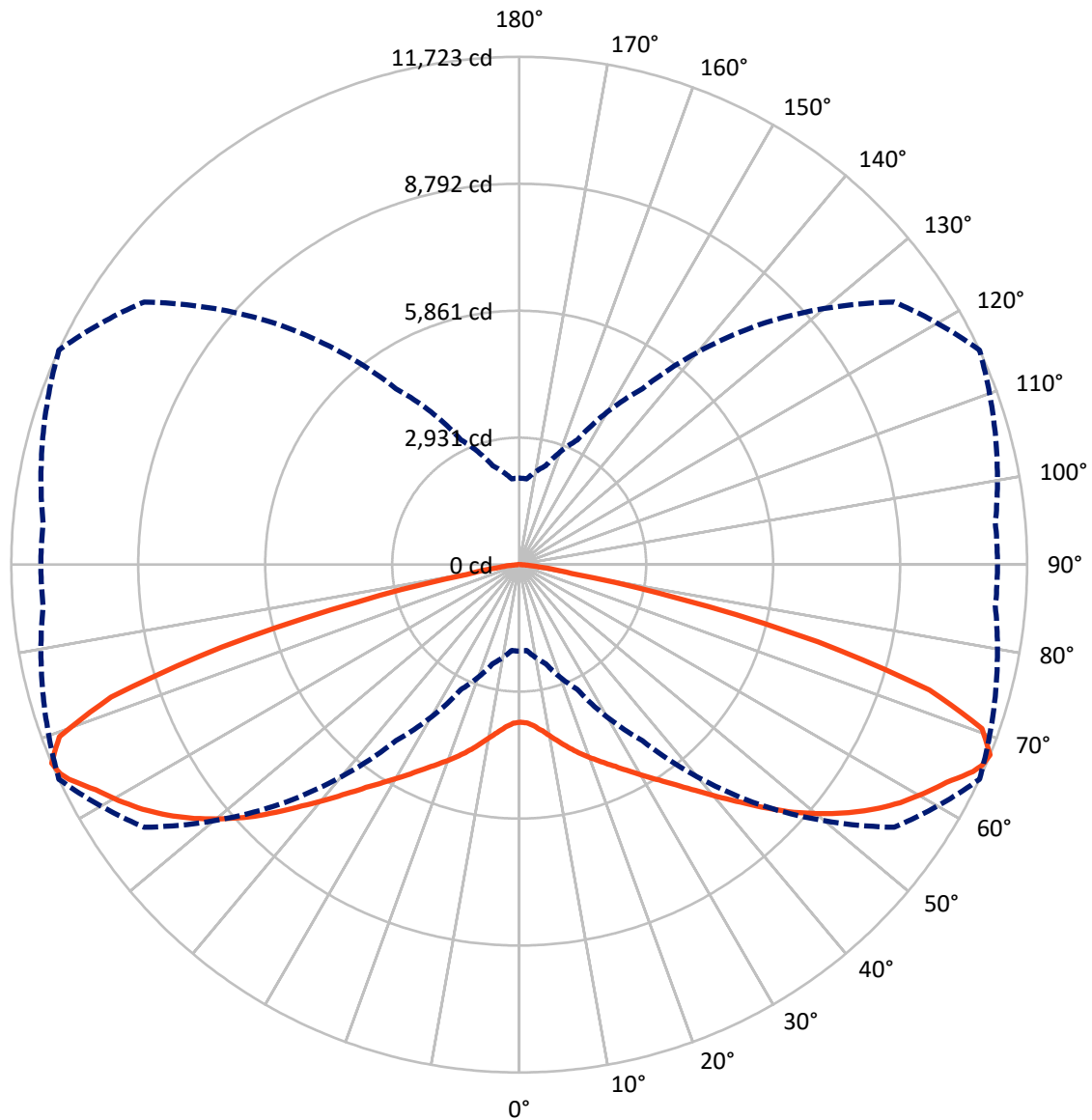
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17349.0	0.0	17349.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17349.0	0.0	17349.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34698.0	0.0	34698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	1.0
10°-20°	1199.7	3.5
20°-30°	2346.6	6.8
30°-40°	3991.3	11.5
40°-50°	6317.1	18.2
50°-60°	8376.3	24.1
60°-70°	7901.4	22.8
70°-80°	3906.1	11.3
80°-90°	301.0	0.9
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°	34698.0	100.0
0°-180°	34698.0	100.0

Coefficient of Utilization



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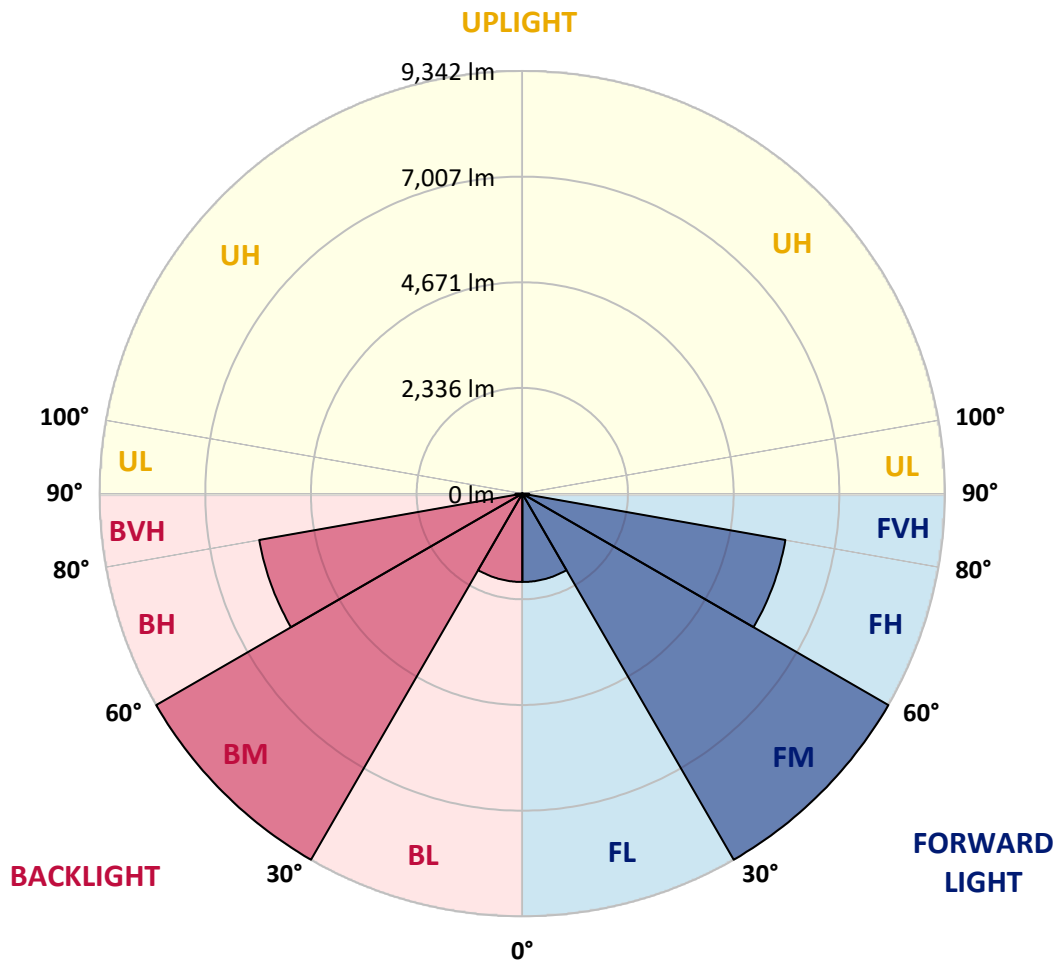
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1952.4	5.6			
FM	(30°-60°)	9342.4	26.9			
FH	(60°-80°)	5903.8	17.0			G3/7500
FVH	(80°-90°)	150.5	0.4			G2/225
BL	(0°-30°)	1952.4	5.6	B3/2500		
BM	(30°-60°)	9342.4	26.9	B5		
BH	(60°-80°)	5903.8	17.0	B5		G5
BVH	(80°-90°)	150.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3
2.5°	3615.7	3619.4	3623.2	3628.7	3636.2	3647.3	3654.8	3660.3	3675.2	3677.1	3675.2
5°	3602.7	3606.4	3615.7	3632.5	3656.6	3690.1	3716.1	3747.7	3771.9	3788.6	3784.9
7.5°	3600.8	3608.3	3623.2	3658.5	3705.0	3762.6	3822.1	3876.0	3922.5	3959.6	3954.1
10°	3630.6	3639.9	3664.1	3716.1	3788.6	3872.3	3955.9	4035.8	4102.8	4151.1	4167.8
12.5°	3680.8	3688.2	3732.8	3810.9	3915.0	4019.1	4113.9	4212.5	4305.4	4387.2	4387.2
15°	3768.2	3781.2	3836.9	3950.3	4078.6	4199.4	4296.1	4400.2	4500.6	4593.5	4621.4
17.5°	3889.0	3907.6	3991.2	4136.2	4299.8	4411.4	4502.5	4588.0	4675.3	4764.6	4777.6
20°	4054.4	4073.0	4184.6	4359.3	4552.6	4686.5	4747.8	4768.3	4811.0	4896.6	4907.7
22.5°	4279.4	4298.0	4422.5	4619.6	4835.2	4980.2	5006.2	4957.9	4946.8	5013.7	5021.1
25°	4534.1	4550.8	4693.9	4905.9	5128.9	5286.9	5279.5	5160.5	5093.6	5134.5	5145.7
27.5°	4820.3	4844.5	4989.5	5208.9	5450.5	5590.0	5567.7	5394.8	5251.6	5244.2	5247.9
30°	5186.6	5212.6	5350.1	5560.2	5798.2	5926.4	5880.0	5647.6	5426.4	5352.0	5352.0
32.5°	5573.2	5638.3	5777.7	5997.1	6183.0	6275.9	6205.3	5926.4	5632.7	5528.6	5523.0
35°	6077.0	6112.3	6249.9	6463.7	6603.1	6675.6	6539.9	6240.6	5902.3	5779.6	5762.8
37.5°	6569.6	6599.4	6759.3	6963.7	7132.9	7129.2	6945.2	6614.3	6236.9	6099.3	6088.2
40°	7073.4	7105.0	7287.2	7475.0	7644.1	7629.3	7406.2	7036.2	6634.7	6480.4	6510.2
42.5°	7510.3	7545.6	7752.0	8019.6	8172.1	8168.4	7910.0	7493.6	7075.3	6937.7	6963.7
45°	7908.1	7939.7	8179.5	8486.3	8709.3	8737.2	8454.6	8014.1	7584.6	7408.0	7415.5
47.5°	8188.8	8248.3	8499.3	8850.6	9153.6	9252.2	8975.2	8543.9	8049.4	7865.4	7876.5
50°	8402.6	8439.8	8713.0	9112.7	9495.7	9700.2	9477.1	9034.7	8514.1	8318.9	8345.0
52.5°	8428.6	8473.2	8770.7	9231.7	9722.5	10032.9	9923.2	9514.3	8988.2	8787.4	8843.2
55°	8216.7	8242.7	8597.8	9157.3	9811.7	10280.2	10308.1	9960.4	9439.9	9287.5	9324.7
57.5°	7612.5	7679.5	8129.3	8809.7	9689.0	10412.2	10596.2	10365.7	9897.2	9746.6	9806.1
60°	6621.7	6688.6	7140.3	8002.9	9226.1	10350.8	10834.1	10724.5	10311.8	10190.9	10222.5
62.5°	5188.4	5182.8	5742.4	6800.2	8305.9	10049.7	11010.7	11070.2	10720.7	10568.3	10616.6
65°	3362.9	3379.6	3920.6	5060.1	6917.3	9283.8	11049.8	11510.8	11122.3	10891.8	10927.1
66°	2704.8	2755.0	3214.2	4264.5	6209.0	8781.8	10932.7	11640.9	11245.0	10966.1	10982.9
67.5°	1996.5	1987.3	2364.6	3175.1	4957.9	7828.2	10566.5	11722.7	11384.4	11033.1	11040.5
70°	1139.6	1137.7	1271.5	1743.7	2914.9	5511.9	8906.4	11330.5	11667.0	11274.7	11254.3
72.5°	832.8	827.2	845.8	963.0	1422.1	2782.9	6143.9	9902.8	11522.0	11235.7	11178.1
75°	699.0	695.3	691.5	706.4	797.5	1260.4	3260.7	7123.6	9997.6	10546.0	10486.5
77.5°	570.7	570.7	572.6	568.8	572.6	663.7	1351.5	3818.3	6088.2	6796.4	6961.9
80°	446.2	444.3	475.9	462.9	433.1	425.7	598.6	1228.8	2020.7	2009.6	1658.2
82.5°	329.0	306.7	362.5	353.2	319.7	271.4	349.5	524.2	674.8	438.7	325.3
85°	208.2	206.3	256.5	234.2	195.2	128.3	167.3	224.9	278.8	169.2	137.6
87.5°	37.2	35.3	81.8	59.5	59.5	37.2	46.5	61.3	91.1	63.2	46.5
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)