

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: P455948

Luminaire Tested: **GALN-SA7A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25267 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 215
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



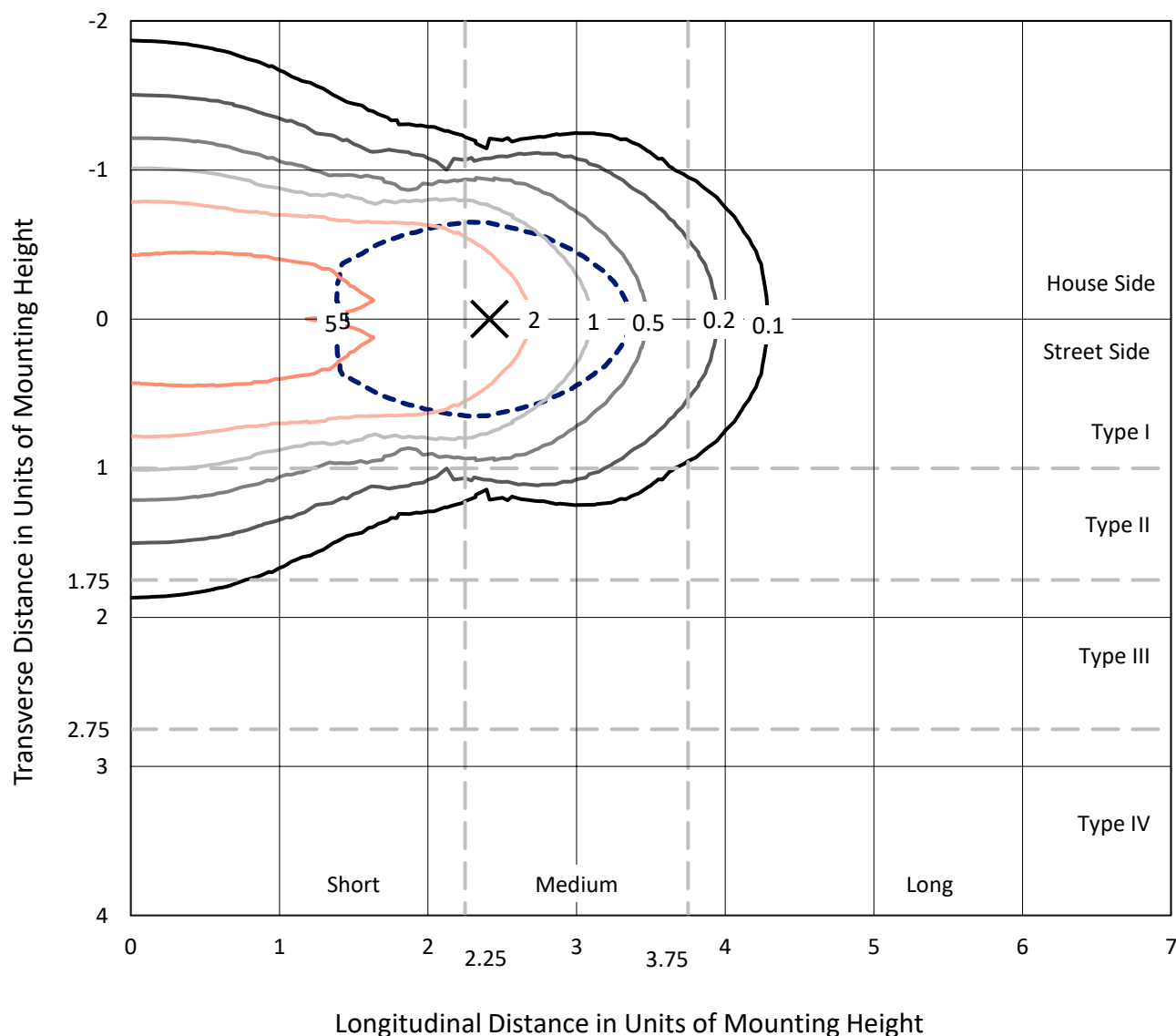
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



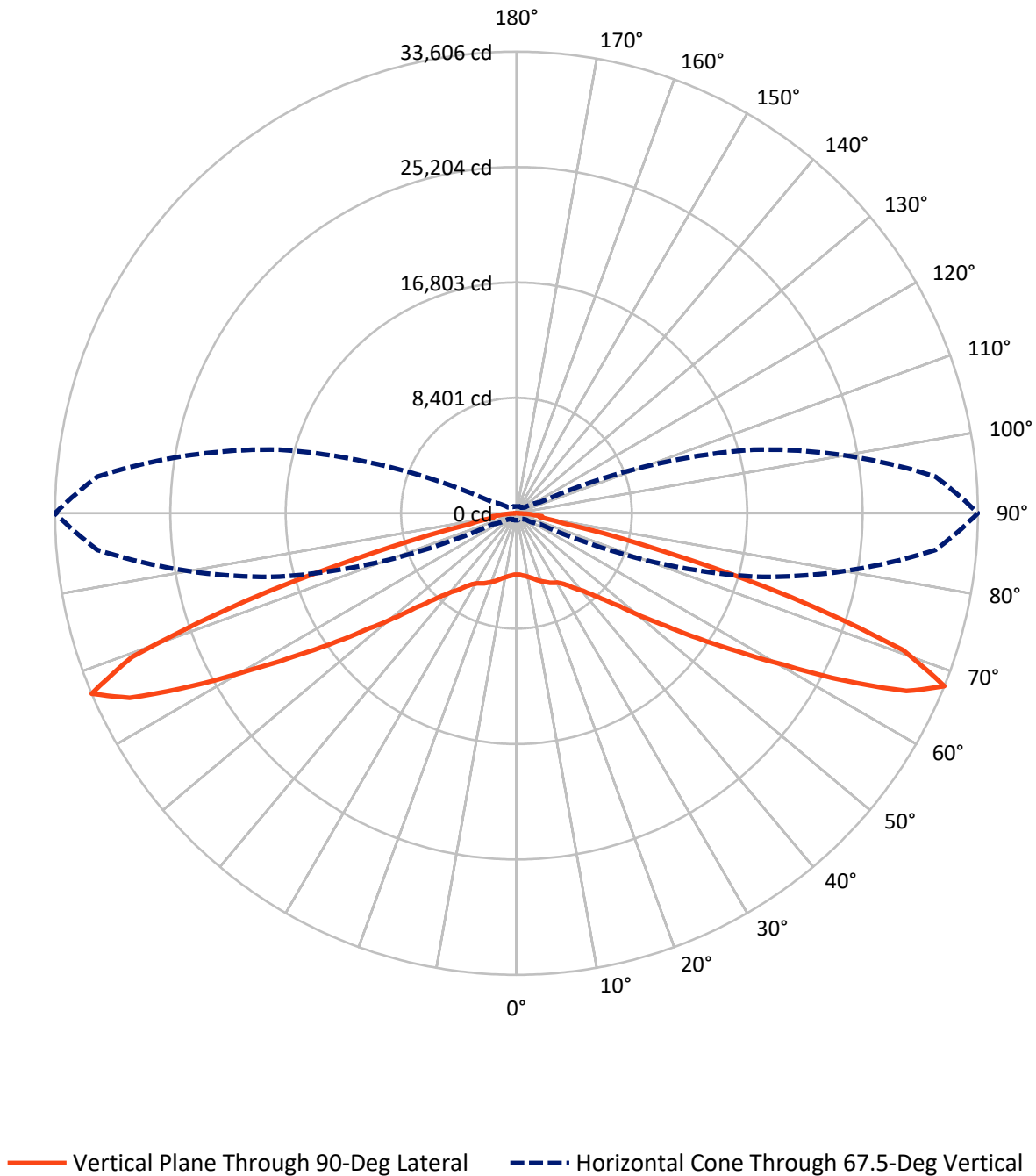
Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12633.5	0.0	12633.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12633.5	0.0	12633.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25267.0	0.0	25267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.0	1.8
10°-20°	1426.8	5.6
20°-30°	2388.2	9.5
30°-40°	3235.3	12.8
40°-50°	4098.1	16.2
50°-60°	5119.5	20.3
60°-70°	6017.8	23.8
70°-80°	2302.1	9.1
80°-90°	233.2	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°	25267.0	100.0
0°-180°	25267.0	100.0

Coefficient of Utilization



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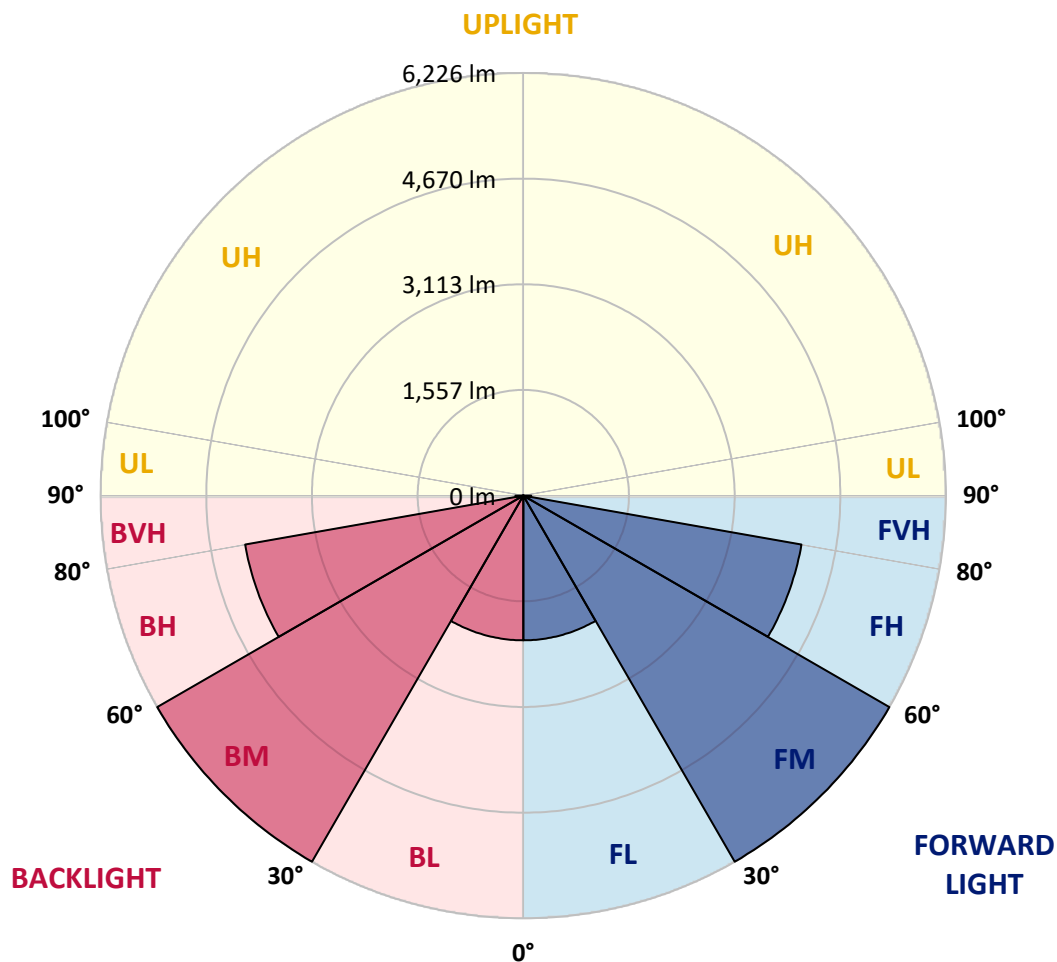
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2130.5	8.4			
FM	(30°-60°)	6226.5	24.6			
FH	(60°-80°)	4159.9	16.5			G2/5000
FVH	(80°-90°)	116.6	0.5			G2/225
BL	(0°-30°)	2130.5	8.4	B3/2500		
BM	(30°-60°)	6226.5	24.6	B4/8500		
BH	(60°-80°)	4159.9	16.5	B4/5000		G4/5000
BVH	(80°-90°)	116.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4473.0	4473.0	4473.0	4473.0	4473.0	4473.0	4473.0	4473.0	4473.0	4473.0	4473.0
2.5°	4530.4	4527.6	4529.0	4527.6	4531.8	4529.0	4512.2	4498.2	4487.0	4488.4	4484.2
5°	4627.0	4628.4	4629.7	4622.8	4632.5	4627.0	4600.4	4578.0	4555.6	4547.2	4544.4
7.5°	4706.7	4713.7	4717.9	4724.9	4741.7	4741.7	4727.7	4695.5	4646.5	4618.6	4617.2
10°	4786.5	4792.0	4804.6	4827.0	4855.0	4881.6	4876.0	4832.6	4769.7	4722.1	4710.9
12.5°	4814.4	4821.4	4863.4	4927.8	4990.7	5042.5	5042.5	5007.5	4926.4	4853.6	4832.6
15°	4716.5	4729.1	4804.6	4941.8	5106.9	5220.2	5245.4	5196.4	5109.7	4997.7	4972.5
17.5°	4522.0	4552.8	4663.3	4866.2	5140.4	5375.5	5448.2	5424.5	5312.5	5169.8	5140.4
20°	4313.5	4347.1	4464.7	4733.3	5112.5	5466.4	5677.7	5683.3	5544.8	5337.7	5294.3
22.5°	4084.1	4109.3	4260.4	4575.2	5028.5	5487.4	5875.0	5971.5	5784.0	5505.6	5444.0
25°	3826.6	3854.6	4012.7	4352.7	4870.4	5463.6	6055.5	6268.1	6034.5	5684.7	5606.3
27.5°	3580.4	3591.6	3760.9	4106.5	4661.9	5402.1	6188.4	6541.0	6311.5	5833.0	5733.7
30°	3343.9	3370.5	3520.2	3861.6	4422.7	5281.7	6303.1	6851.6	6609.5	5988.3	5861.0
32.5°	3093.5	3125.7	3288.0	3633.6	4183.4	5101.3	6373.1	7191.6	7025.1	6240.2	6104.4
35°	2852.8	2873.8	3037.5	3373.3	3949.8	4891.4	6385.7	7574.9	7560.9	6622.1	6441.6
37.5°	2606.6	2637.4	2802.5	3124.3	3702.1	4668.9	6322.7	7982.1	8207.3	7152.4	6957.9
40°	2370.1	2396.7	2559.0	2883.6	3420.9	4397.5	6173.0	8354.3	8961.5	7698.1	7422.4
42.5°	2112.7	2119.7	2297.4	2627.6	3145.3	4082.7	5957.5	8685.9	9802.4	8429.8	8087.0
45°	1820.3	1838.5	2003.6	2328.2	2829.1	3730.1	5665.1	8960.1	10868.5	9444.2	8976.9
47.5°	1527.9	1543.2	1694.4	2014.8	2483.5	3325.8	5214.6	9200.7	11962.6	10732.8	10120.0
50°	1242.4	1250.8	1374.0	1658.0	2094.5	2900.4	4656.3	9277.7	13199.5	12557.3	11775.1
52.5°	982.2	994.8	1088.5	1311.0	1679.0	2398.1	4053.3	9087.4	14643.4	14720.3	13617.8
55°	796.1	800.3	870.3	1034.0	1312.4	1872.0	3325.8	8557.1	16196.4	17492.0	16085.9
57.5°	685.6	688.4	727.6	818.5	1010.2	1411.7	2580.0	7553.9	17591.4	20739.4	18931.7
60°	622.6	624.0	646.4	699.6	800.3	1082.9	1848.3	6138.0	18968.1	24353.4	22468.8
62.5°	583.4	583.4	598.8	628.2	677.2	831.1	1339.0	4428.3	19911.1	28020.5	26828.5
65°	545.7	545.7	556.9	577.8	604.4	680.0	989.2	2887.8	19887.4	30691.5	31213.4
67.5°	502.3	502.3	510.7	531.7	547.1	584.8	763.9	1891.6	17864.2	30632.7	33605.9
70°	450.5	450.5	461.7	479.9	492.5	516.3	603.0	1294.2	13123.9	26155.5	29887.0
72.5°	398.8	400.2	407.1	425.3	435.1	449.1	500.9	906.6	8050.6	17809.6	20897.5
75°	341.4	344.2	351.2	369.4	377.8	383.4	422.5	646.4	4072.9	9602.3	10932.9
77.5°	275.6	281.2	285.4	305.0	310.6	319.0	348.4	467.3	1788.1	3450.3	3481.1
80°	201.5	208.5	221.1	239.3	243.5	249.0	265.8	331.6	810.1	1575.4	1711.1
82.5°	148.3	158.1	142.7	166.5	166.5	159.5	187.5	222.5	372.2	1560.0	1866.5
85°	81.2	82.5	74.2	85.3	90.9	89.5	99.3	109.1	180.5	1041.0	1073.1
87.5°	19.6	21.0	22.4	26.6	32.2	32.2	35.0	30.8	58.8	337.2	193.1
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)