

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: P232742

Luminaire Tested: **CTN-10-9-D-E1-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-10-9-D-E1-T5-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 91839 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

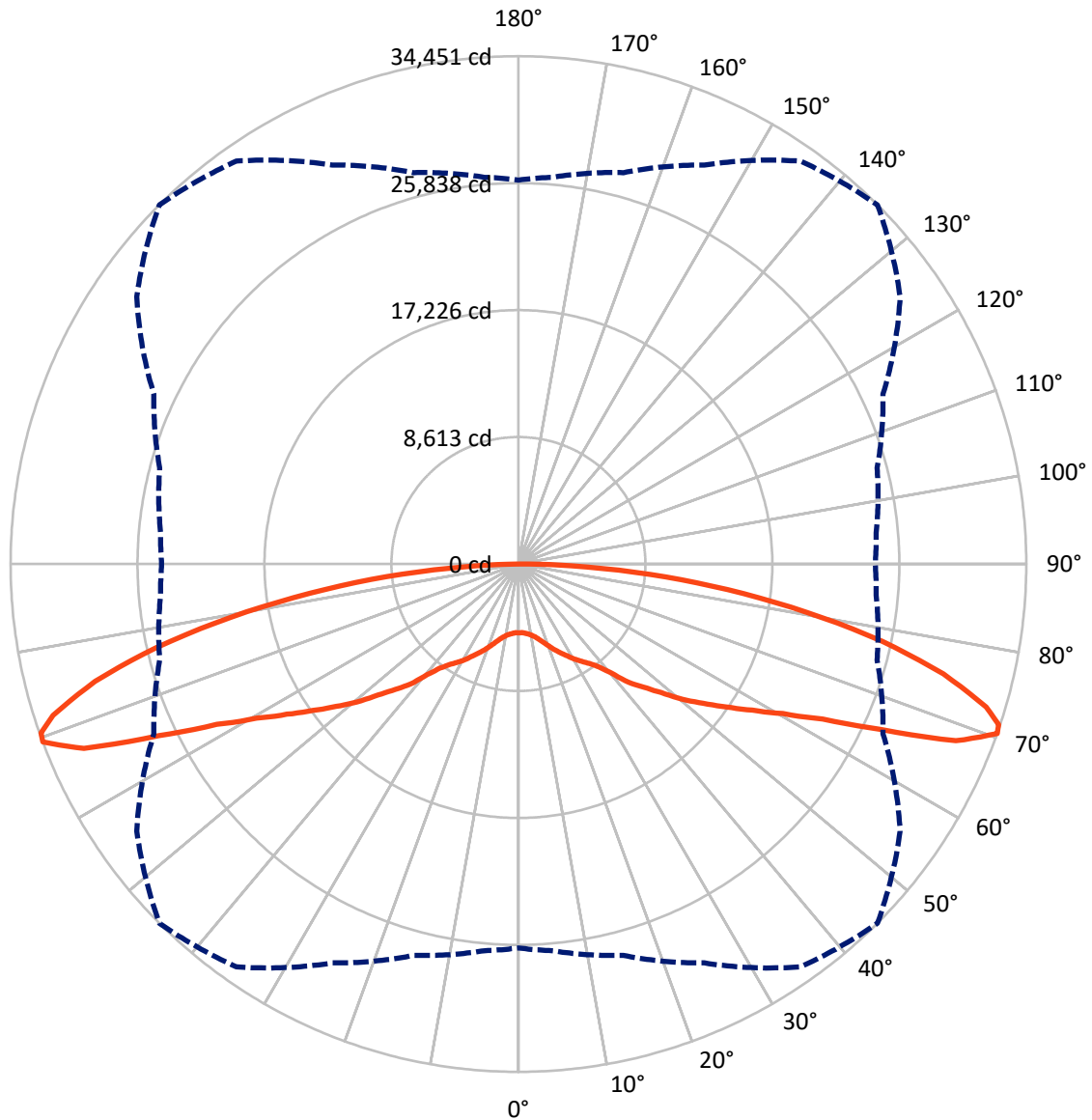
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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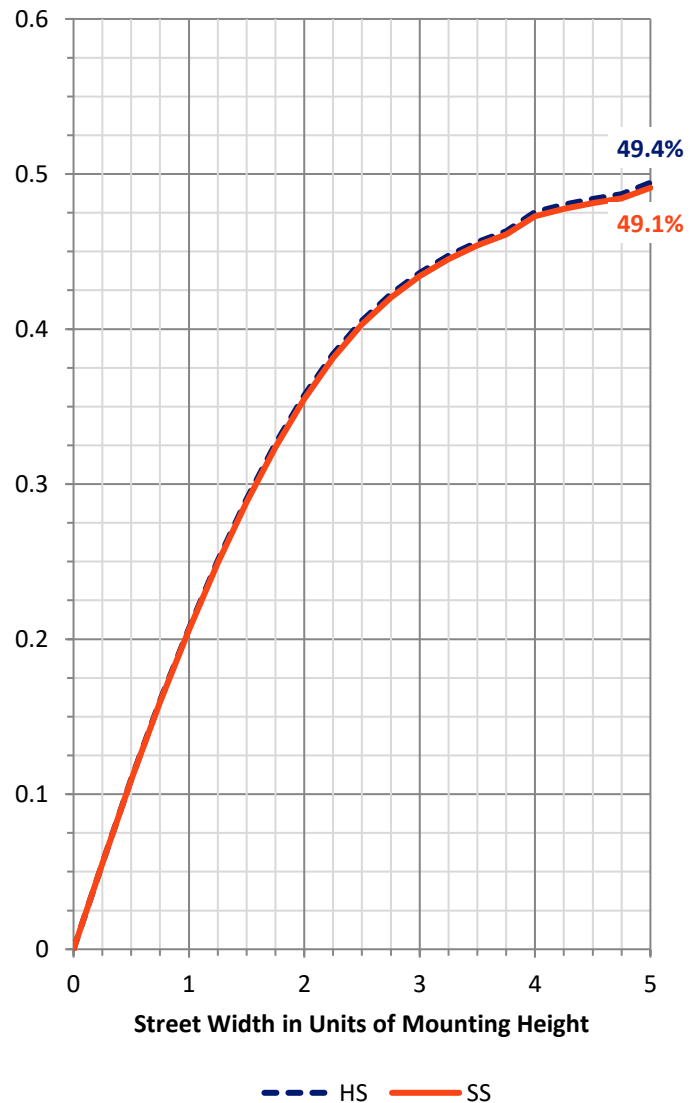
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45919.5	0.0	45919.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45919.5	0.0	45919.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	91839.0	0.0	91839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	0.5
10°-20°	1522.9	1.7
20°-30°	3043.2	3.3
30°-40°	5233.3	5.7
40°-50°	9681.4	10.5
50°-60°	16455.5	17.9
60°-70°	26524.4	28.9
70°-80°	23443.0	25.5
80°-90°	5477.8	6.0
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°	91839.0	100.0
0°-180°	91839.0	100.0



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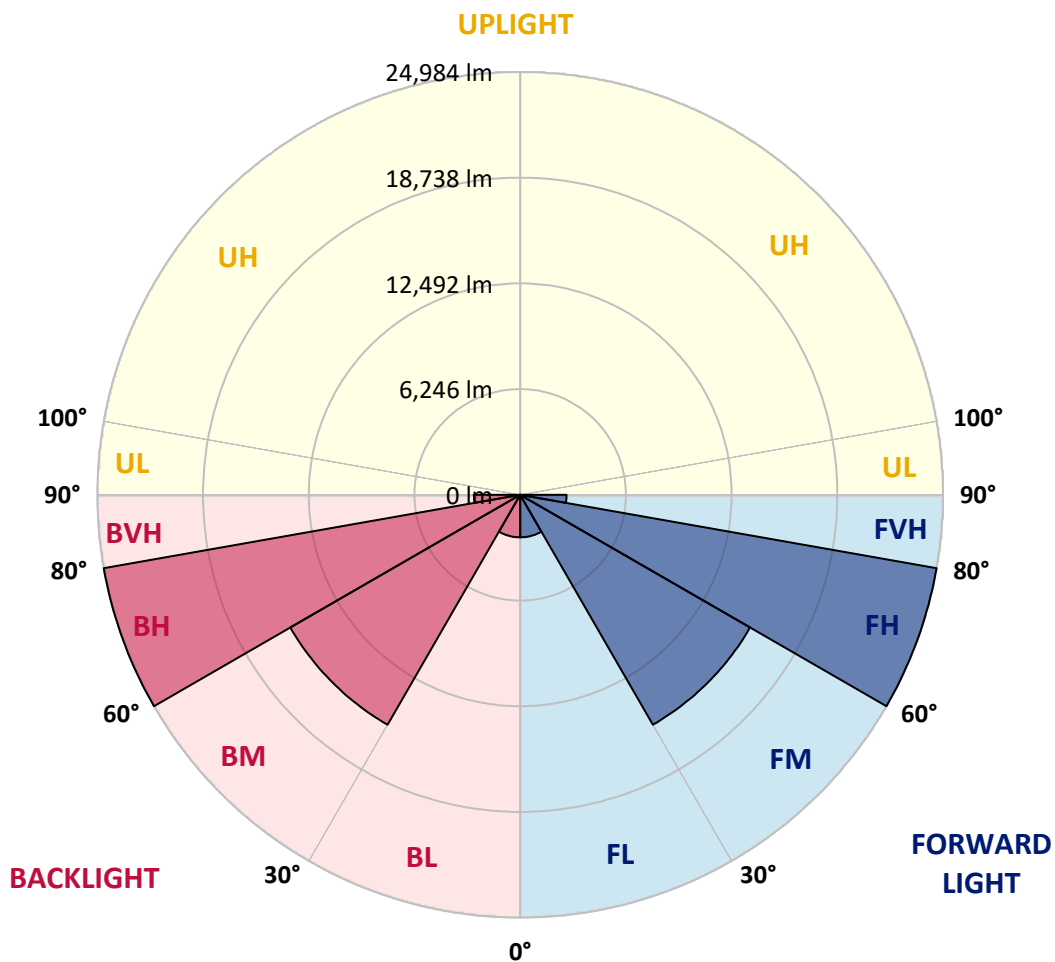
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2511.8	2.7			
FM	(30°-60°)	15685.1	17.1			
FH	(60°-80°)	24983.7	27.2			G5
FVH	(80°-90°)	2738.9	3.0			G5
BL	(0°-30°)	2511.8	2.7	B4/5000		
BM	(30°-60°)	15685.1	17.1	B5		
BH	(60°-80°)	24983.7	27.2	B5		G5
BVH	(80°-90°)	2738.9	3.0			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4666.1	4666.1	4666.1	4666.1	4666.1	4666.1	4666.1	4666.1	4666.1	4666.1	4666.1
2.5°	4706.6	4697.9	4700.8	4700.8	4648.8	4660.3	4663.2	4695.0	4695.0	4709.5	4712.3
5°	4752.8	4738.3	4741.2	4752.8	4703.7	4712.3	4712.3	4744.1	4738.3	4755.7	4764.4
7.5°	4833.7	4822.1	4822.1	4833.7	4775.9	4790.4	4781.7	4810.6	4799.0	4807.7	4825.0
10°	4963.7	4960.8	4952.2	4957.9	4894.4	4903.0	4885.7	4917.5	4894.4	4897.3	4929.0
12.5°	5113.9	5111.1	5111.1	5119.7	5064.8	5079.3	5050.4	5061.9	5021.5	5027.3	5053.3
15°	5298.9	5304.6	5310.4	5336.4	5301.7	5316.2	5272.9	5267.1	5220.9	5220.9	5252.6
17.5°	5553.1	5553.1	5556.0	5613.8	5593.6	5616.7	5556.0	5515.6	5469.3	5475.1	5480.9
20°	5870.9	5859.4	5865.2	5934.5	5940.3	5957.6	5862.3	5807.4	5758.2	5761.1	5755.4
22.5°	6209.0	6185.9	6183.0	6278.3	6318.8	6324.5	6191.6	6139.6	6076.1	6084.7	6079.0
25°	6532.6	6509.5	6497.9	6575.9	6682.8	6677.0	6532.6	6457.4	6428.6	6428.6	6434.3
27.5°	6853.3	6824.4	6812.8	6859.0	7026.6	7055.5	6864.8	6798.4	6769.5	6795.5	6807.0
30°	7176.9	7153.8	7148.0	7162.4	7353.1	7480.2	7185.5	7156.6	7153.8	7176.9	7202.9
32.5°	7569.8	7566.9	7543.8	7540.9	7682.5	7867.4	7569.8	7587.1	7633.4	7685.4	7720.0
35°	8075.4	8069.6	8006.1	8035.0	8104.3	8277.7	8107.2	8118.8	8243.0	8321.0	8364.3
37.5°	8748.6	8705.3	8624.4	8627.3	8661.9	8838.2	8771.7	8861.3	9086.7	9231.1	9216.7
40°	9702.1	9632.7	9511.4	9476.7	9470.9	9722.3	9785.8	9988.1	10343.5	10557.3	10542.8
42.5°	11065.8	10993.5	10808.6	10759.5	10779.7	10976.2	11161.1	11481.8	11791.0	12039.5	12025.0
45°	12464.2	12371.7	12074.1	11906.5	11762.1	11912.3	12201.2	12704.0	13073.8	13400.3	13394.5
47.5°	14082.1	13937.7	13579.4	13258.7	12969.8	13024.7	13333.8	13908.8	14356.6	14683.1	14662.9
50°	15838.8	15694.3	15301.4	14818.9	14371.1	14408.6	14558.9	15165.6	15610.5	15928.4	15934.1
52.5°	17716.8	17612.8	17162.1	16523.5	15908.1	15697.2	15792.6	16353.1	16864.5	17165.0	17191.0
55°	19742.2	19641.0	19167.2	18430.4	17586.8	17113.0	17110.1	17673.5	18190.6	18453.6	18494.0
57.5°	21773.3	21718.4	21302.3	20499.1	19435.9	18710.7	18546.0	19132.5	19713.3	19984.9	20039.7
60°	23865.1	23790.0	23443.3	22770.1	21602.8	20608.9	20331.6	20918.1	21573.9	21854.2	21888.9
62.5°	26234.3	26159.2	25893.3	25182.6	24321.6	23171.7	22770.1	23310.4	23917.1	24364.9	24318.7
65°	28603.4	28586.1	28698.8	28378.1	27719.3	27060.6	26268.9	26861.2	27309.1	27265.7	27251.3
67.5°	28225.0	28334.7	29114.8	30227.2	31616.9	32009.9	30181.0	28522.5	27546.0	26979.7	26800.6
70°	26046.5	26329.6	27485.3	29857.4	33362.0	34451.3	31608.3	27286.0	25188.4	24362.0	24203.1
71°	24844.5	25067.0	26399.0	29296.9	33373.6	34355.9	31270.2	26355.6	24223.4	23090.8	22981.0
72.5°	22504.3	22848.1	24318.7	27762.7	32359.5	33185.8	29796.7	24622.1	22388.7	21285.0	21224.3
75°	17991.3	18095.3	19993.5	23905.5	29138.0	29793.8	26451.0	21365.9	19063.2	18309.1	18265.8
77.5°	12698.2	12701.1	14521.3	18635.6	24156.9	25220.2	22908.8	17615.7	15289.8	14342.2	14131.3
80°	6726.1	7000.6	8806.4	12808.0	18095.3	19846.2	18205.1	13319.4	10750.9	9366.9	9173.3
82.5°	3065.5	3261.9	4432.1	7260.7	11900.8	14293.1	12490.2	8647.5	5761.1	4267.4	4143.2
85°	1190.4	1219.3	1828.9	3449.7	6653.9	8965.3	7272.2	4053.6	2005.1	1225.0	1135.5
87.5°	390.0	416.1	595.2	1329.0	2831.5	3579.8	2811.2	1219.3	390.0	242.7	234.0
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)