

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: P510512

Luminaire Tested: **CTN-CA10-310-760-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-310-760-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49822 lumens  
Efficiency: N/A  
Efficacy: 159.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

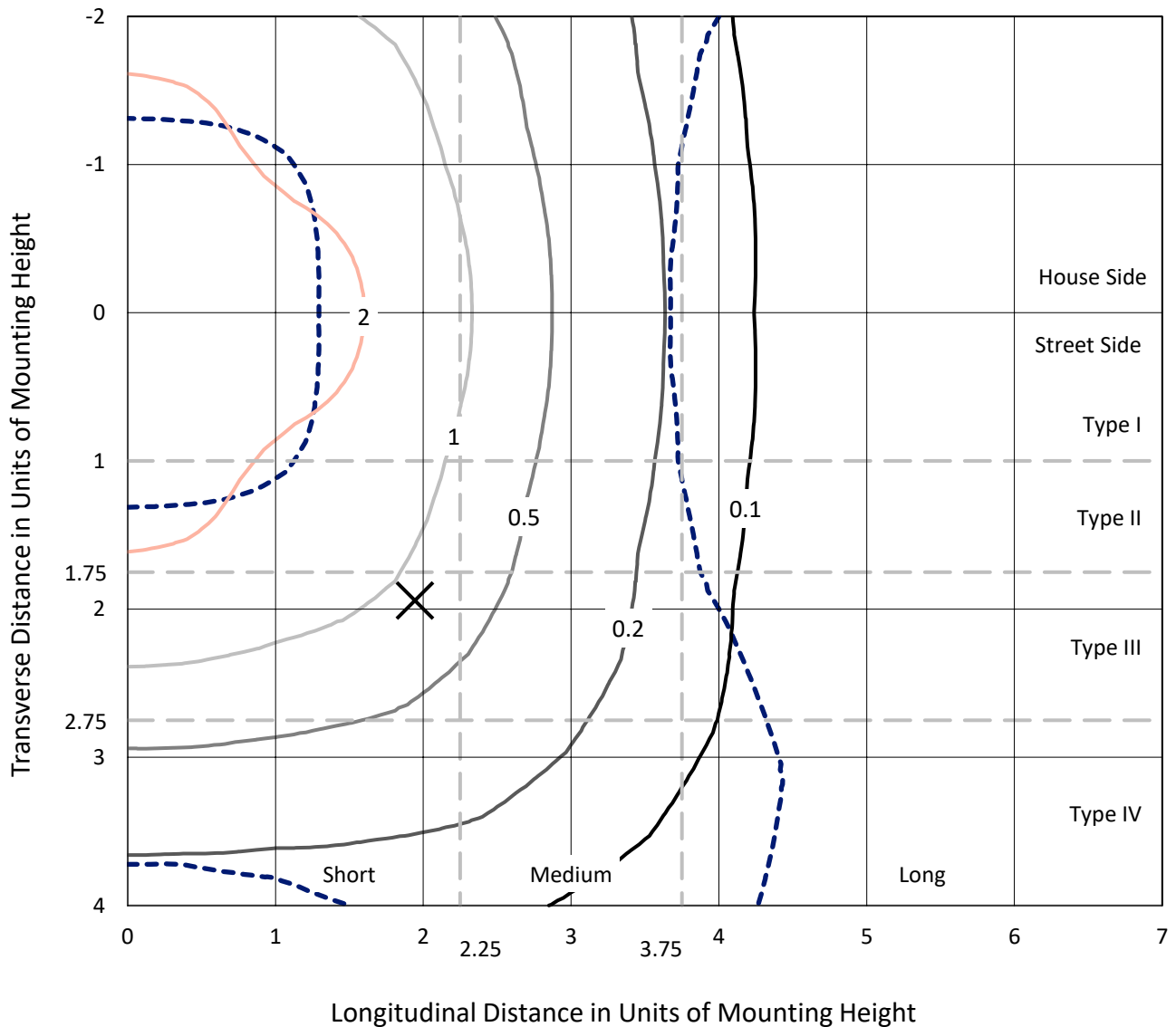
Input Watts (W): 312.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

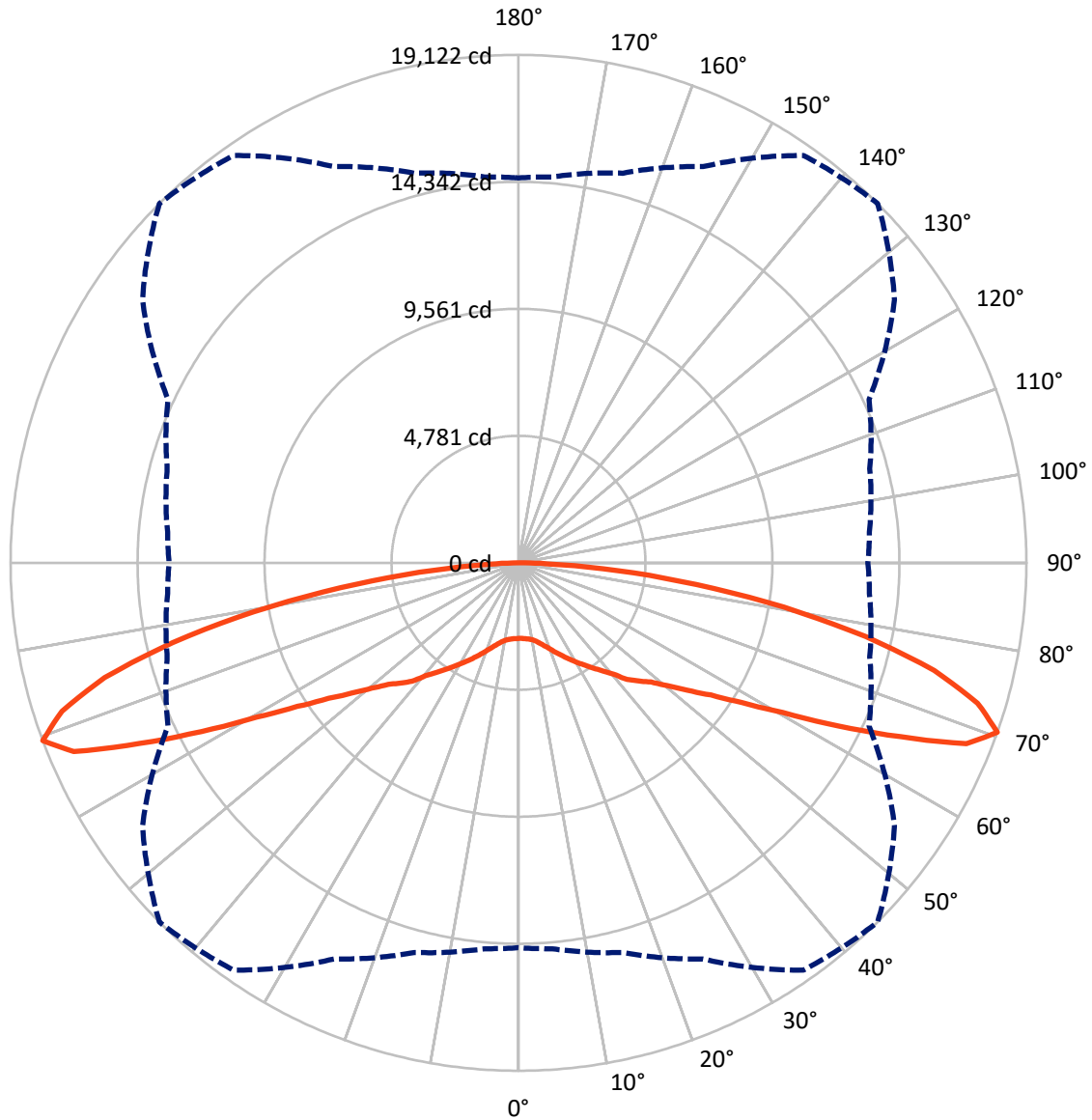
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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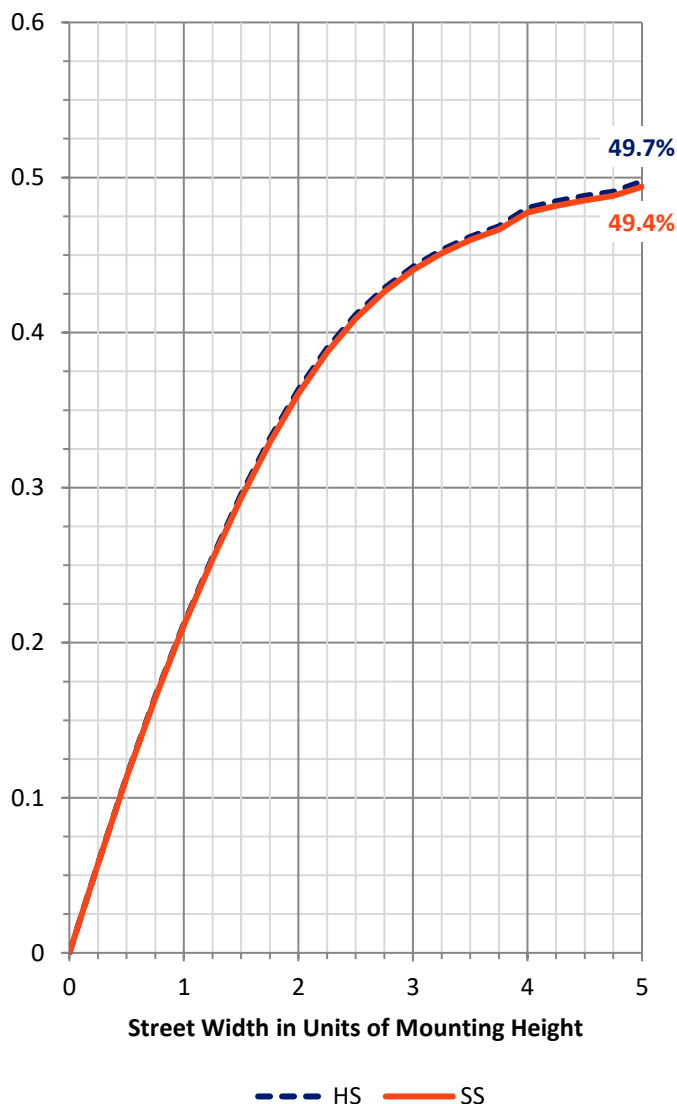
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24911.0	0.0	24911.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24911.0	0.0	24911.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49822.0	0.0	49822.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	0.6
10°-20°	901.4	1.8
20°-30°	1784.4	3.6
30°-40°	3086.9	6.2
40°-50°	5136.1	10.3
50°-60°	8958.2	18.0
60°-70°	14830.0	29.8
70°-80°	12428.7	24.9
80°-90°	2419.5	4.9
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°	49822.0	100.0
0°-180°	49822.0	100.0

**Coefficient of Utilization**

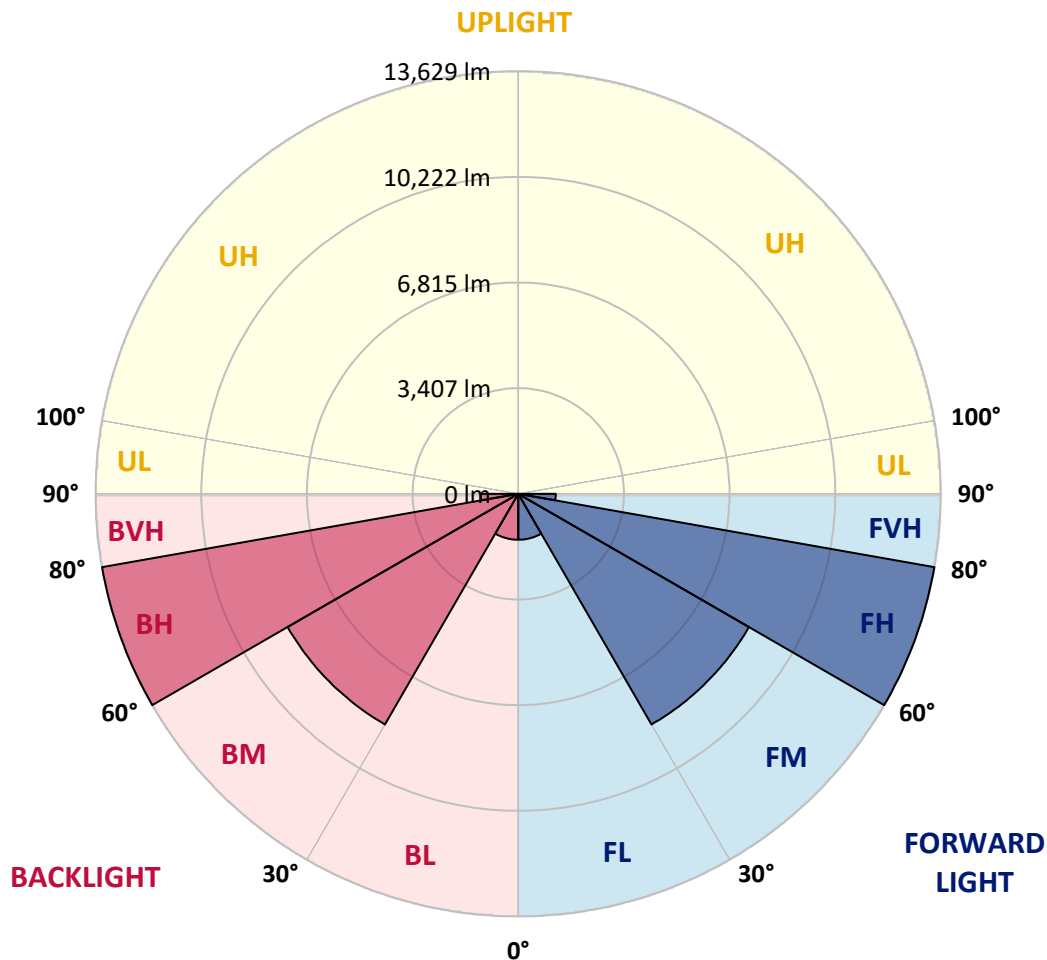


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.3	3.0			
FM (30°-60°)	8590.6	17.2			
FH (60°-80°)	13629.3	27.4			G5
FVH (80°-90°)	1209.7	2.4			G5
BL (0°-30°)	1481.3	3.0	B3/2500		
BM (30°-60°)	8590.6	17.2	B5		
BH (60°-80°)	13629.3	27.4	B5		G5
BVH (80°-90°)	1209.7	2.4			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°	2847.5	2847.5	2847.5	2847.5	2847.5	2847.5	2847.5	2847.5	2847.5	2847.5	2847.5
2.5°	2865.2	2856.4	2853.4	2850.4	2852.4	2851.4	2856.4	2858.3	2860.3	2869.2	2864.3
5°	2883.0	2876.1	2875.1	2871.2	2870.2	2870.2	2877.1	2878.1	2879.1	2885.0	2879.1
7.5°	2915.6	2908.7	2906.7	2904.7	2903.7	2899.8	2904.7	2902.7	2904.7	2907.7	2900.8
10°	2966.9	2959.0	2957.0	2952.1	2955.0	2949.1	2953.1	2948.1	2939.2	2941.2	2931.4
12.5°	3036.9	3030.0	3033.0	3032.0	3043.8	3040.9	3033.0	3023.1	3008.3	2998.4	2987.6
15°	3140.5	3129.7	3137.6	3145.5	3157.3	3162.2	3156.3	3129.7	3108.0	3092.2	3083.3
17.5°	3266.8	3249.1	3264.8	3280.6	3306.3	3311.2	3289.5	3256.9	3233.3	3226.4	3211.6
20°	3413.8	3410.9	3411.9	3437.5	3477.0	3483.9	3455.3	3416.8	3393.1	3394.1	3377.3
22.5°	3591.4	3575.6	3580.6	3606.2	3662.5	3681.2	3633.8	3591.4	3576.6	3580.6	3578.6
25°	3794.7	3779.9	3773.0	3784.8	3857.8	3890.4	3845.0	3795.7	3788.8	3797.6	3783.8
27.5°	4017.7	4003.8	3996.0	4001.9	4059.1	4120.3	4070.0	4028.5	4027.5	4040.4	4032.5
30°	4271.2	4250.5	4241.6	4248.5	4288.0	4347.2	4306.7	4282.1	4302.8	4311.7	4308.7
32.5°	4527.8	4517.9	4514.9	4513.0	4561.3	4594.9	4575.1	4580.1	4596.8	4637.3	4624.5
35°	4819.8	4791.2	4799.1	4805.0	4868.2	4871.1	4873.1	4882.0	4926.4	4983.6	4950.0
37.5°	5123.7	5116.8	5121.7	5105.0	5151.3	5170.1	5197.7	5227.3	5297.3	5363.5	5349.6
40°	5499.6	5486.8	5491.7	5472.0	5494.7	5509.5	5565.7	5629.9	5719.6	5790.7	5758.1
42.5°	5997.9	5965.3	5965.3	5971.2	6018.6	6002.8	6123.2	6140.9	6252.4	6312.6	6293.9
45°	6583.9	6572.1	6509.9	6405.4	6346.2	6345.2	6441.9	6585.9	6770.4	6895.7	6894.7
47.5°	7328.9	7292.4	7143.4	6891.8	6741.8	6705.3	6806.9	7087.1	7426.6	7621.9	7618.9
50°	8305.7	8259.3	8033.3	7642.6	7350.6	7260.8	7423.6	7786.7	8243.5	8504.0	8525.7
52.5°	9398.9	9402.8	9147.3	8556.3	8124.1	7962.3	8135.0	8653.9	9223.2	9580.4	9622.8
55°	10668.7	10638.1	10396.4	9726.4	9131.5	8784.2	9045.7	9733.3	10387.5	10659.8	10734.8
57.5°	11990.8	11871.4	11685.9	11059.4	10363.8	9919.8	10233.6	10906.5	11533.0	11880.3	11868.5
60°	13163.0	13084.0	12977.5	12478.2	11944.4	11437.3	11679.0	12248.3	12785.1	12995.2	13004.1
62.5°	14443.6	14377.5	14281.8	14008.5	13714.5	13526.1	13307.0	13570.4	13989.8	14219.7	14294.7
65°	15700.6	15677.0	15732.2	15690.8	15815.1	15787.5	15262.6	15096.8	15103.7	15038.6	15005.0
67.5°	15626.6	15617.8	15943.4	16592.6	17831.8	18183.1	16836.3	15336.6	14660.7	14489.0	14464.4
70°	14487.1	14582.8	15185.6	16456.4	18717.8	19122.4	17278.3	14556.1	13691.8	13261.6	13155.1
72.5°	12294.7	12482.2	13406.7	15278.3	17981.8	18074.5	16167.3	13382.0	12109.2	11596.2	11520.2
75°	9486.7	9510.4	10456.6	12835.4	16047.9	16164.4	14421.9	11224.2	9972.1	9333.8	9314.0
77.5°	5777.9	6114.3	7494.6	9623.8	12757.4	13363.3	12061.9	8940.1	7451.2	6885.9	6570.1
80°	2834.7	2988.6	3983.1	6084.7	9118.7	10133.9	8950.9	6183.4	4595.8	3878.5	3799.6
82.5°	1290.5	1372.4	1884.5	3181.0	5502.6	6760.6	5524.3	3541.1	2453.8	1919.0	1901.3
85°	501.2	498.3	762.7	1334.9	2634.4	3743.4	2797.2	1689.2	1122.8	834.7	787.4
87.5°	146.0	155.9	224.0	438.1	780.4	1051.8	862.3	584.1	345.3	222.0	204.2
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)