

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: P232756

Luminaire Tested: **CTN-8-6-D-E1-T5-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232756  
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-8-6-D-E1-T5-7050  
Description: CELESTEON HIGH MAST LUMINAIRE  
(8) 70 CRI, 5000K LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64528 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

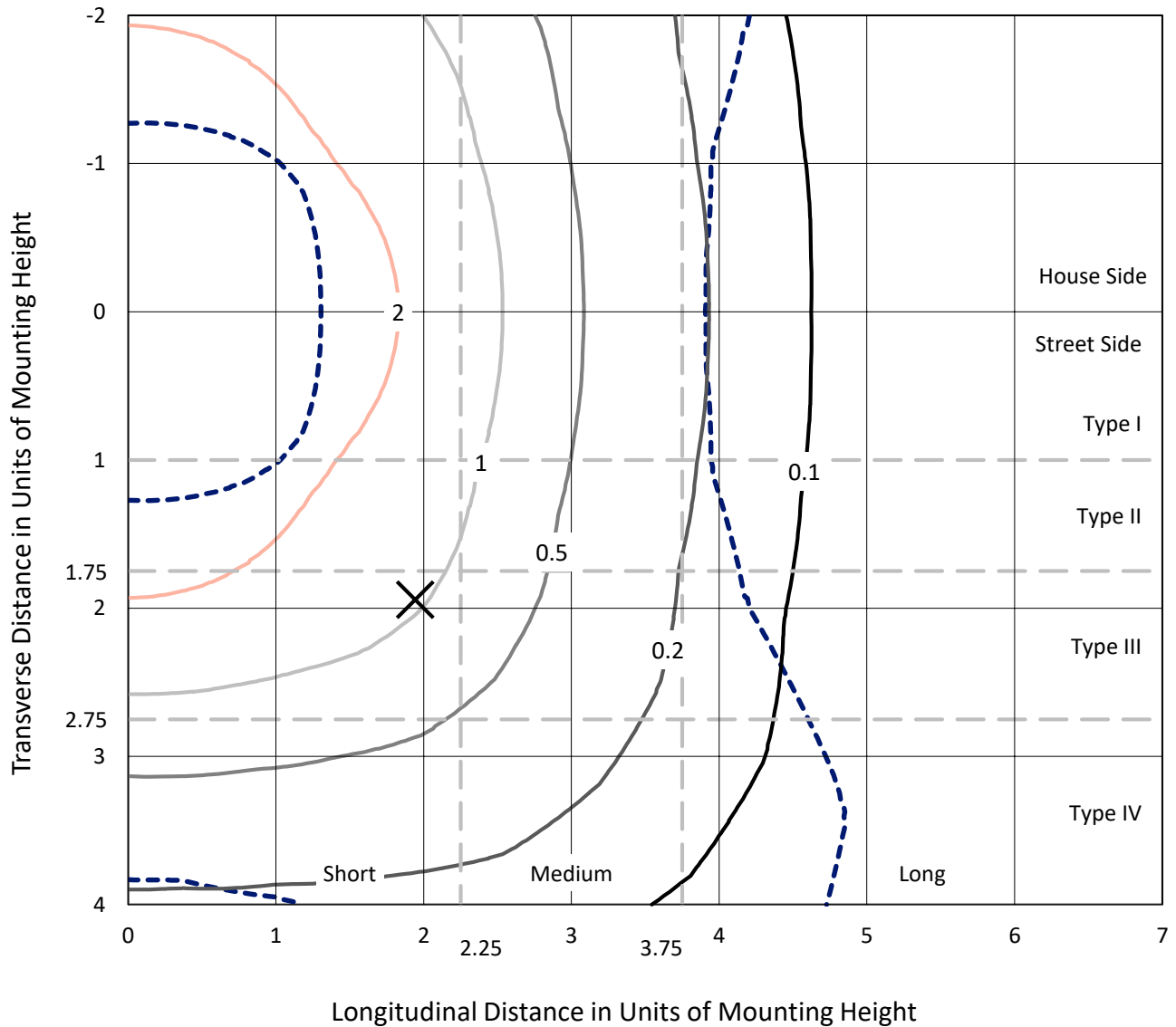
Input Watts (W): 477  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P232756  
 CATALOG NUMBER: CTN-8-6-D-E1-T5-7050

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

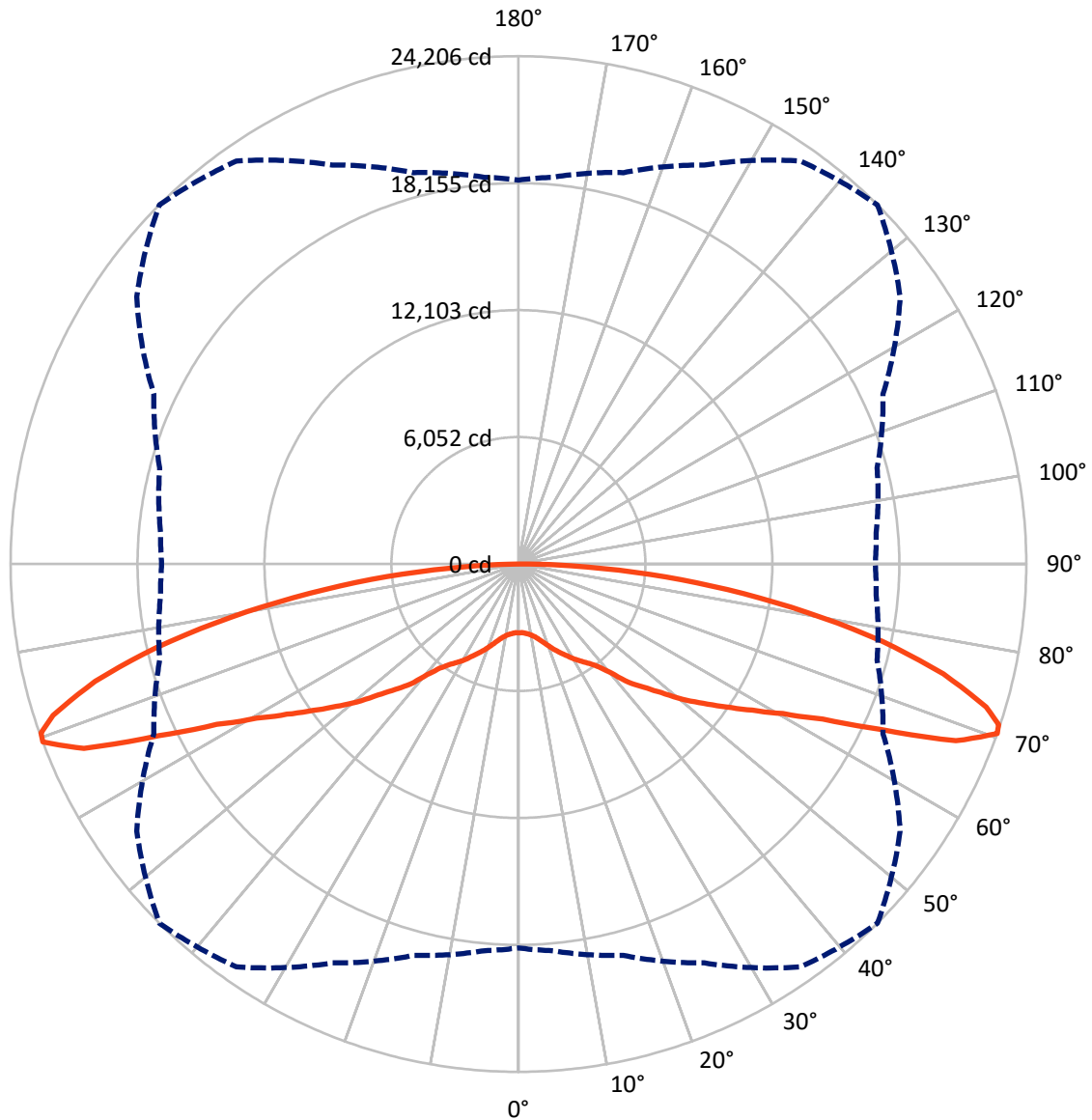


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P232756

CATALOG NUMBER: CTN-8-6-D-E1-T5-7050

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P232756

CATALOG NUMBER: CTN-8-6-D-E1-T5-7050

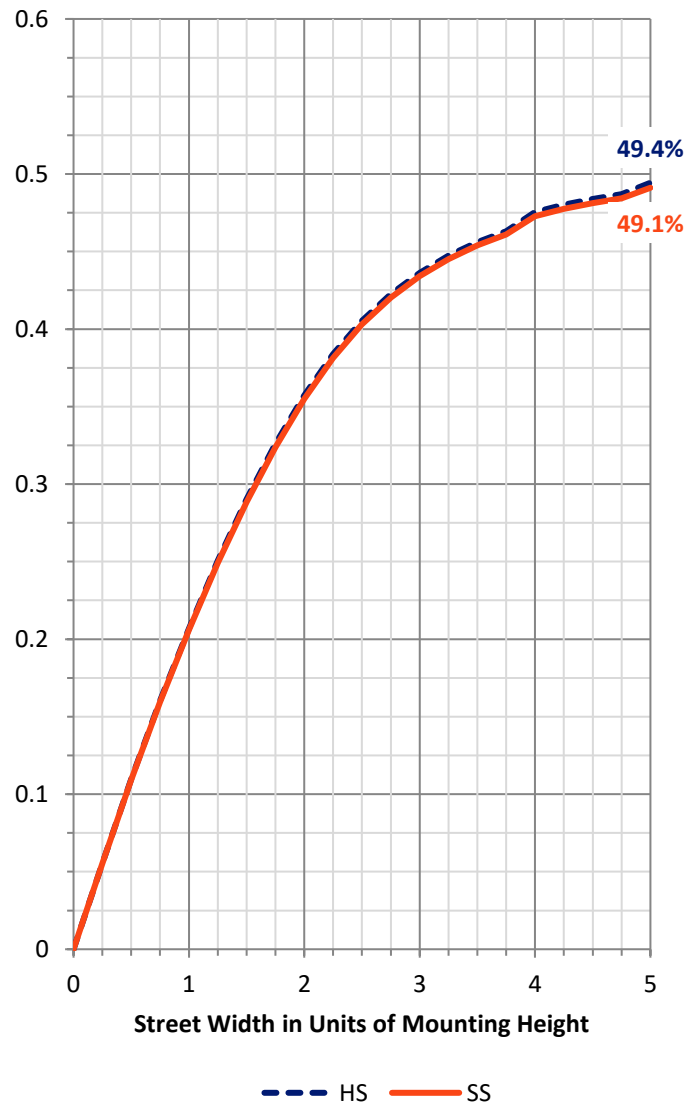
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	32264.0	0.0	32264.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	32264.0	0.0	32264.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	64528.0	0.0	64528.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.5	0.5
10°-20°	1070.0	1.7
20°-30°	2138.2	3.3
30°-40°	3677.0	5.7
40°-50°	6802.4	10.5
50°-60°	11562.0	17.9
60°-70°	18636.6	28.9
70°-80°	16471.5	25.5
80°-90°	3848.8	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°	64528.0	100.0
0°-180°	64528.0	100.0



REPORT NUMBER: P232756

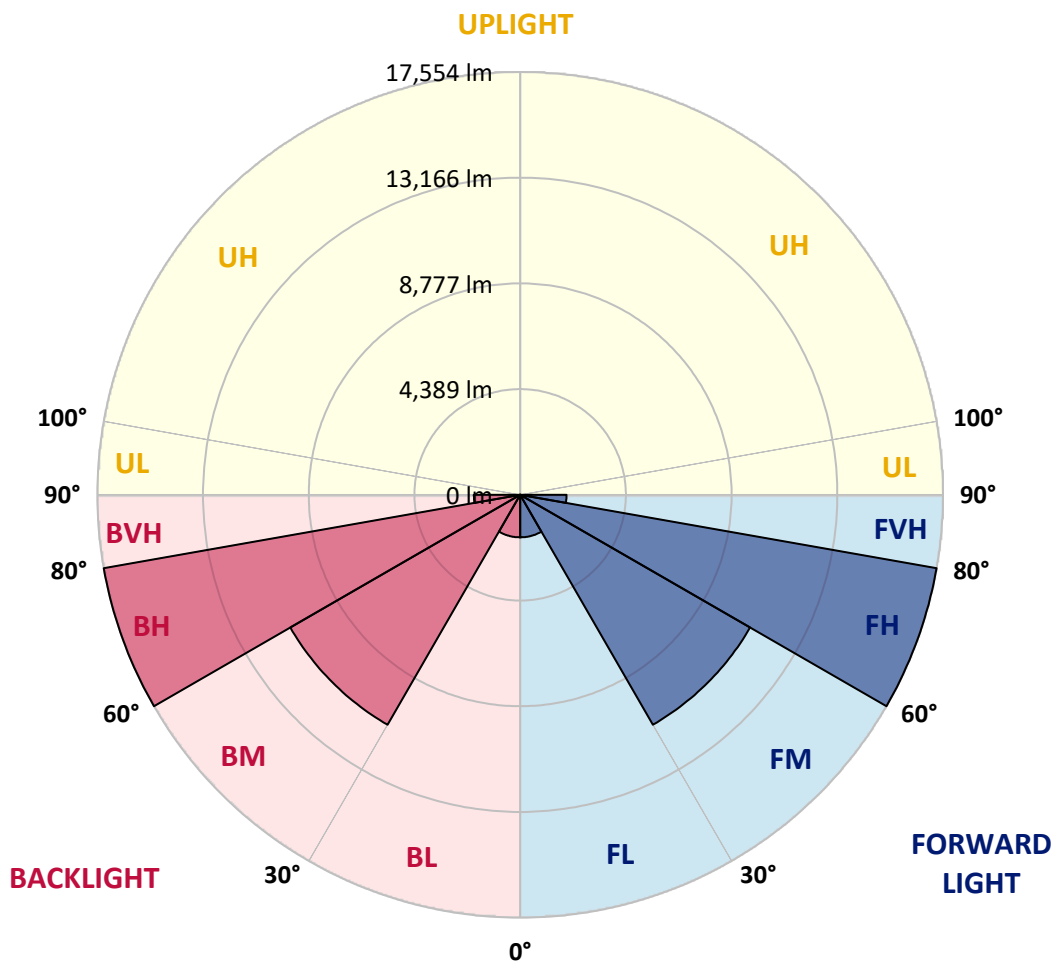
CATALOG NUMBER: CTN-8-6-D-E1-T5-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1764.9	2.7			
FM	(30°-60°)	11020.7	17.1			
FH	(60°-80°)	17554.1	27.2			G5
FVH	(80°-90°)	1924.4	3.0			G5
BL	(0°-30°)	1764.9	2.7	B3/2500		
BM	(30°-60°)	11020.7	17.1	B5		
BH	(60°-80°)	17554.1	27.2	B5		G5
BVH	(80°-90°)	1924.4	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





REPORT NUMBER: P232756

CATALOG NUMBER: CTN-8-6-D-E1-T5-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5
2.5°	3306.9	3300.8	3302.9	3302.9	3266.3	3274.5	3276.5	3298.8	3298.8	3309.0	3311.0
5°	3339.4	3329.3	3331.3	3339.4	3304.9	3311.0	3311.0	3333.3	3329.3	3341.4	3347.5
7.5°	3396.3	3388.1	3388.1	3396.3	3355.7	3365.8	3359.7	3380.0	3371.9	3378.0	3390.2
10°	3487.6	3485.6	3479.5	3483.5	3438.9	3445.0	3432.8	3455.1	3438.9	3440.9	3463.2
12.5°	3593.2	3591.1	3591.1	3597.2	3558.7	3568.8	3548.5	3556.6	3528.2	3532.3	3550.5
15°	3723.1	3727.2	3731.2	3749.5	3725.1	3735.3	3704.8	3700.8	3668.3	3668.3	3690.6
17.5°	3901.7	3901.7	3903.8	3944.4	3930.2	3946.4	3903.8	3875.3	3842.9	3846.9	3851.0
20°	4125.0	4116.9	4121.0	4169.7	4173.8	4185.9	4118.9	4080.4	4045.9	4047.9	4043.8
22.5°	4362.6	4346.3	4344.3	4411.3	4439.7	4443.8	4350.4	4313.8	4269.2	4275.3	4271.2
25°	4589.9	4573.7	4565.6	4620.4	4695.5	4691.4	4589.9	4537.1	4516.8	4516.8	4520.9
27.5°	4815.3	4795.0	4786.8	4819.3	4937.1	4957.4	4823.4	4776.7	4756.4	4774.7	4782.8
30°	5042.6	5026.4	5022.3	5032.5	5166.4	5255.8	5048.7	5028.4	5026.4	5042.6	5060.9
32.5°	5318.7	5316.7	5300.4	5298.4	5397.9	5527.8	5318.7	5330.9	5363.4	5399.9	5424.3
35°	5674.0	5669.9	5625.2	5645.5	5694.3	5816.1	5696.3	5704.4	5791.7	5846.5	5877.0
37.5°	6147.0	6116.5	6059.7	6061.7	6086.1	6209.9	6163.2	6226.1	6384.5	6486.0	6475.8
40°	6816.9	6768.1	6682.9	6658.5	6654.5	6831.1	6875.7	7017.8	7267.5	7417.8	7407.6
42.5°	7775.0	7724.3	7594.4	7559.9	7574.1	7712.1	7842.0	8067.4	8284.6	8459.2	8449.0
45°	8757.6	8692.6	8483.5	8365.8	8264.3	8369.8	8572.9	8926.1	9185.9	9415.3	9411.3
47.5°	9894.4	9792.9	9541.2	9315.8	9112.8	9151.4	9368.6	9772.6	10087.3	10316.7	10302.4
50°	11128.7	11027.2	10751.1	10412.1	10097.4	10123.8	10229.4	10655.7	10968.3	11191.6	11195.7
52.5°	12448.2	12375.1	12058.4	11609.8	11177.4	11029.2	11096.2	11490.0	11849.3	12060.5	12078.7
55°	13871.3	13800.2	13467.3	12949.6	12356.8	12023.9	12021.9	12417.7	12781.1	12965.9	12994.3
57.5°	15298.4	15259.8	14967.5	14403.1	13656.1	13146.5	13030.8	13442.9	13851.0	14041.8	14080.3
60°	16768.1	16715.3	16471.7	15998.7	15178.6	14480.3	14285.4	14697.5	15158.3	15355.2	15379.6
62.5°	18432.7	18380.0	18193.2	17693.8	17088.9	16280.9	15998.7	16378.3	16804.7	17119.3	17086.8
65°	20097.4	20085.2	20164.4	19939.0	19476.2	19013.3	18457.1	18873.3	19187.9	19157.5	19147.3
67.5°	19831.4	19908.6	20456.7	21238.3	22214.7	22490.8	21205.8	20040.5	19354.4	18956.5	18830.6
70°	18300.8	18499.7	19311.8	20978.4	23440.9	24206.2	22208.6	19171.7	17697.9	17117.3	17005.6
71°	17456.3	17612.6	18548.5	20584.6	23449.0	24139.2	21971.1	18518.0	17019.8	16224.1	16146.9
72.5°	15812.0	16053.5	17086.8	19506.6	22736.4	23317.0	20935.8	17300.0	15730.8	14955.3	14912.7
75°	12641.0	12714.1	14047.9	16796.5	20472.9	20933.8	18585.0	15012.1	13394.2	12864.4	12833.9
77.5°	8922.0	8924.0	10203.0	13093.7	16973.2	17720.2	16096.2	12377.1	10743.0	10077.1	9928.9
80°	4725.9	4918.8	6187.6	8999.2	12714.1	13944.3	12791.3	9358.5	7553.8	6581.4	6445.4
82.5°	2153.9	2291.9	3114.1	5101.5	8361.7	10042.6	8775.9	6075.9	4047.9	2998.4	2911.1
85°	836.4	856.7	1285.0	2423.9	4675.2	6299.2	5109.6	2848.1	1408.8	860.7	797.8
87.5°	274.1	292.3	418.2	933.8	1989.4	2515.2	1975.2	856.7	274.1	170.5	164.4
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)