

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: P232757

Luminaire Tested: **CTN-10-8-D-E1-T5-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232757
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-10-8-D-E1-T5-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83021 lumens
Efficiency: N/A
Efficacy: 131.6 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): 631
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

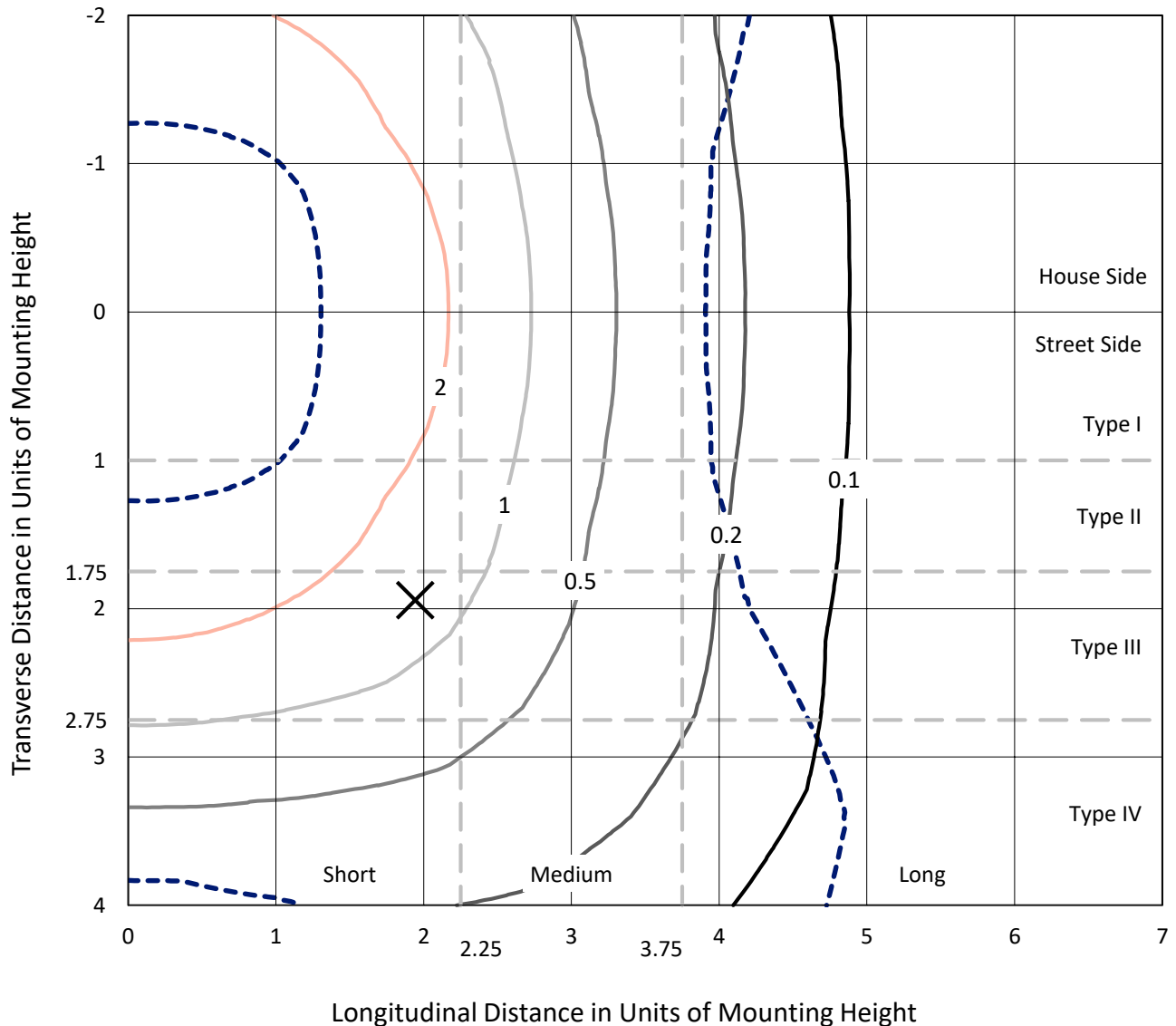


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Iso-Footcandle Lines of Horizontal Illumination

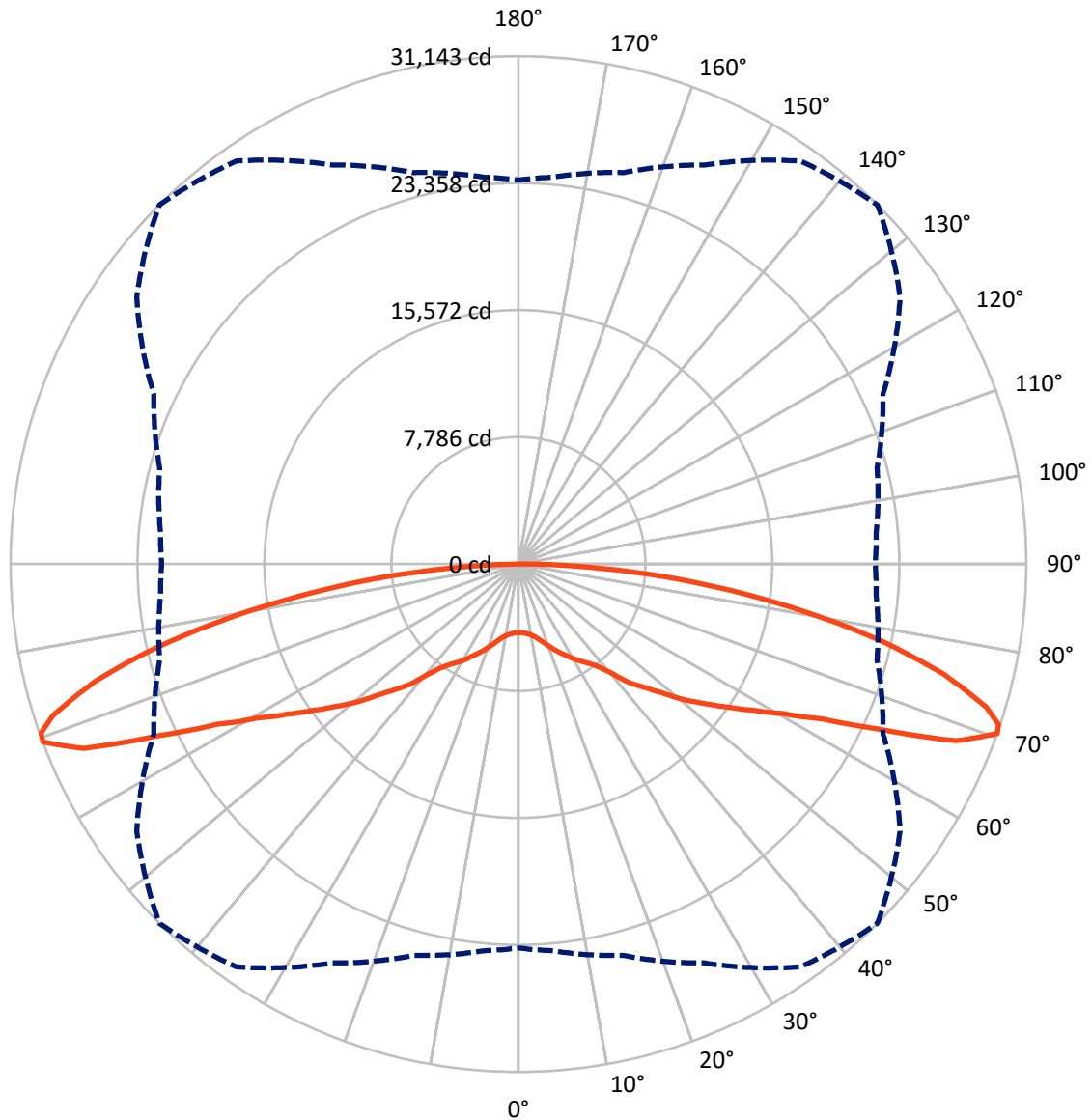
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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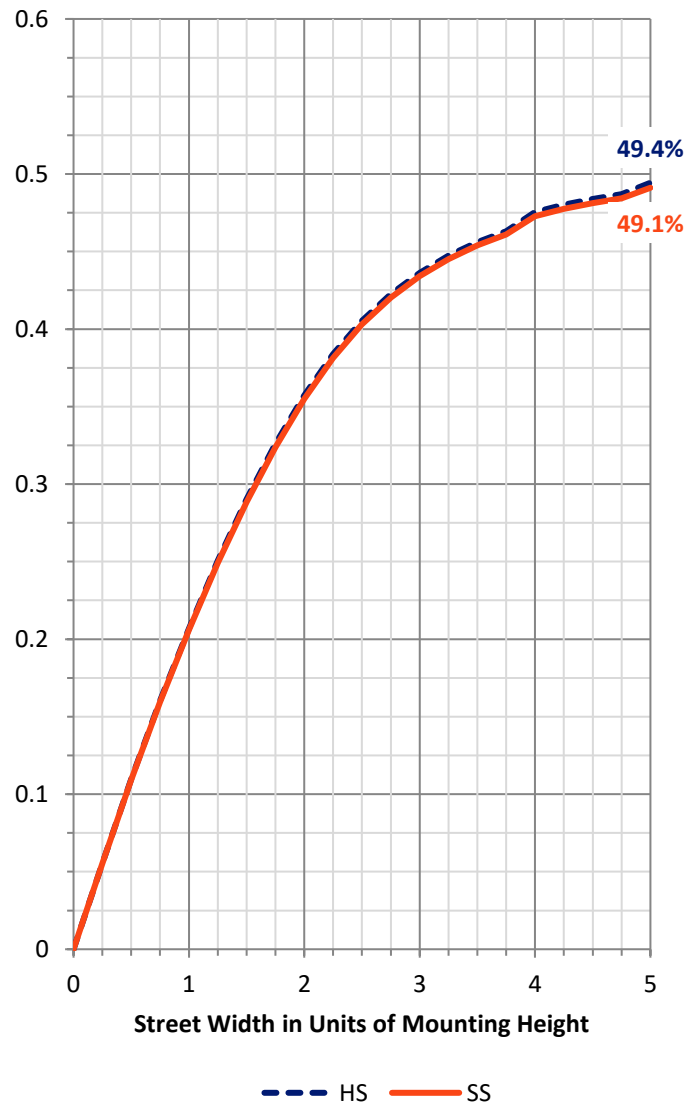
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41510.5	0.0	41510.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	41510.5	0.0	41510.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	83021.0	0.0	83021.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	0.5
10°-20°	1376.7	1.7
20°-30°	2751.0	3.3
30°-40°	4730.8	5.7
40°-50°	8751.8	10.5
50°-60°	14875.5	17.9
60°-70°	23977.6	28.9
70°-80°	21192.1	25.5
80°-90°	4951.8	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°	83021.0	100.0
0°-180°	83021.0	100.0



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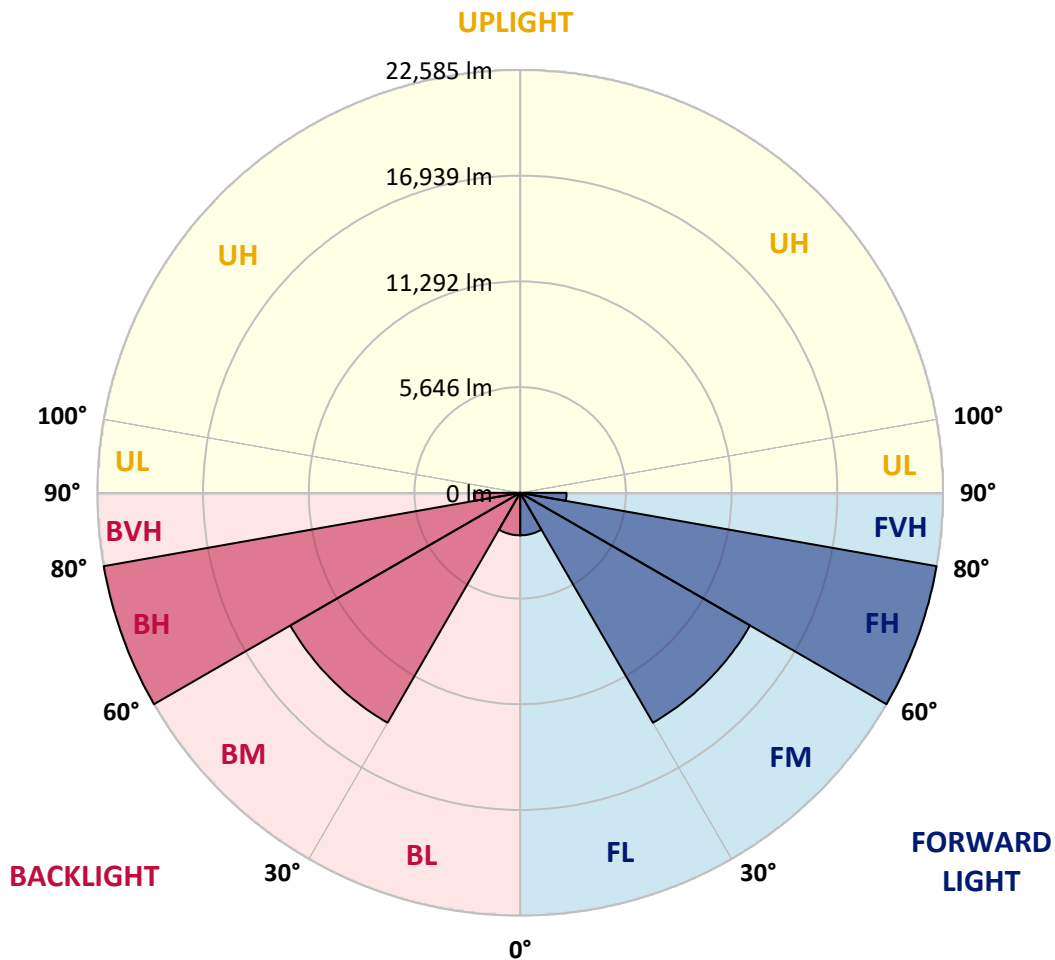
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.6	2.7			
FM (30°-60°)	14179.1	17.1			
FH (60°-80°)	22584.8	27.2			G5
FVH (80°-90°)	2475.9	3.0			G5
BL (0°-30°)	2270.6	2.7	B3/2500		
BM (30°-60°)	14179.1	17.1	B5		
BH (60°-80°)	22584.8	27.2	B5		G5
BVH (80°-90°)	2475.9	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°	4218.1	4218.1	4218.1	4218.1	4218.1	4218.1	4218.1	4218.1	4218.1	4218.1	4218.1
2.5°	4254.7	4246.8	4249.4	4249.4	4202.4	4212.9	4215.5	4244.2	4244.2	4257.3	4259.9
5°	4296.5	4283.4	4286.0	4296.5	4252.1	4259.9	4259.9	4288.6	4283.4	4299.1	4306.9
7.5°	4369.6	4359.1	4359.1	4369.6	4317.3	4330.4	4322.6	4348.7	4338.2	4346.1	4361.7
10°	4487.1	4484.5	4476.7	4481.9	4424.4	4432.3	4416.6	4445.3	4424.4	4427.0	4455.8
12.5°	4622.9	4620.3	4620.3	4628.2	4578.5	4591.6	4565.5	4575.9	4539.4	4544.6	4568.1
15°	4790.1	4795.3	4800.5	4824.0	4792.7	4805.8	4766.6	4761.4	4719.6	4719.6	4748.3
17.5°	5019.9	5019.9	5022.5	5074.8	5056.5	5077.4	5022.5	4986.0	4944.2	4949.4	4954.6
20°	5307.2	5296.8	5302.0	5364.7	5369.9	5385.6	5299.4	5249.8	5205.4	5208.0	5202.8
22.5°	5612.8	5591.9	5589.3	5675.5	5712.1	5717.3	5597.1	5550.1	5492.7	5500.5	5495.3
25°	5905.3	5884.4	5874.0	5944.5	6041.2	6035.9	5905.3	5837.4	5811.3	5811.3	5816.5
27.5°	6195.2	6169.1	6158.7	6200.5	6352.0	6378.1	6205.7	6145.6	6119.5	6143.0	6153.5
30°	6487.8	6466.9	6461.7	6474.7	6647.1	6762.0	6495.6	6469.5	6466.9	6487.8	6511.3
32.5°	6843.0	6840.4	6819.5	6816.9	6944.8	7112.0	6843.0	6858.7	6900.4	6947.5	6978.8
35°	7300.0	7294.8	7237.4	7263.5	7326.2	7482.9	7328.8	7339.2	7451.5	7522.1	7561.2
37.5°	7908.6	7869.4	7796.3	7798.9	7830.2	7989.6	7929.5	8010.5	8214.2	8344.8	8331.7
40°	8770.5	8707.8	8598.1	8566.8	8561.6	8788.8	8846.2	9029.1	9350.3	9543.6	9530.5
42.5°	10003.3	9938.0	9770.8	9726.4	9744.7	9922.3	10089.5	10379.4	10658.9	10883.5	10870.4
45°	11267.4	11183.8	10914.8	10763.3	10632.7	10768.6	11029.7	11484.2	11818.5	12113.6	12108.4
47.5°	12730.0	12599.4	12275.6	11985.7	11724.5	11774.1	12053.6	12573.3	12978.2	13273.3	13255.0
50°	14318.0	14187.4	13832.2	13396.0	12991.2	13025.2	13161.0	13709.5	14111.7	14399.0	14404.2
52.5°	16015.7	15921.7	15514.2	14937.0	14380.7	14190.0	14276.2	14782.9	15245.2	15516.8	15540.4
55°	17846.6	17755.2	17326.8	16660.8	15898.2	15469.8	15467.2	15976.5	16444.0	16681.7	16718.3
57.5°	19682.7	19633.1	19257.0	18530.9	17569.7	16914.2	16765.3	17295.5	17820.5	18066.0	18115.6
60°	21573.7	21505.8	21192.3	20583.8	19528.6	18630.1	18379.4	18909.6	19502.5	19755.8	19787.2
62.5°	23715.4	23647.5	23407.2	22764.7	21986.3	20946.8	20583.8	21072.2	21620.7	22025.5	21983.7
65°	25857.1	25841.4	25943.3	25653.3	25057.8	24462.3	23746.7	24282.1	24687.0	24647.8	24634.7
67.5°	25514.9	25614.2	26319.4	27324.9	28581.2	28936.4	27283.1	25783.9	24901.1	24389.2	24227.3
70°	23545.6	23801.6	24846.3	26990.6	30158.7	31143.4	28573.4	24666.1	22769.9	22022.9	21879.3
71°	22459.1	22660.2	23864.2	26483.9	30169.2	31057.2	28267.8	23825.1	21897.5	20873.7	20774.5
72.5°	20343.5	20654.3	21983.7	25097.0	29252.4	29999.4	26935.7	22258.0	20239.0	19241.3	19186.5
75°	16263.8	16357.9	18073.8	21610.2	26340.2	26933.1	23911.3	19314.4	17232.8	16551.1	16512.0
77.5°	11479.0	11481.6	13127.0	16846.3	21837.5	22798.6	20709.2	15924.3	13821.8	12965.1	12774.4
80°	6080.3	6328.5	7960.8	11578.2	16357.9	17940.6	16457.1	12040.5	9718.6	8467.5	8292.5
82.5°	2771.1	2948.7	4006.5	6563.5	10758.1	12920.7	11290.9	7817.2	5208.0	3857.7	3745.4
85°	1076.1	1102.2	1653.3	3118.5	6015.0	8104.5	6574.0	3664.4	1812.6	1107.4	1026.4
87.5°	352.6	376.1	538.0	1201.4	2559.6	3236.1	2541.3	1102.2	352.6	219.4	211.6
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)