

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: P232774

Luminaire Tested: **CTN-10-9-D-E1-T5N**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-22)
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-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 4000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 102503 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

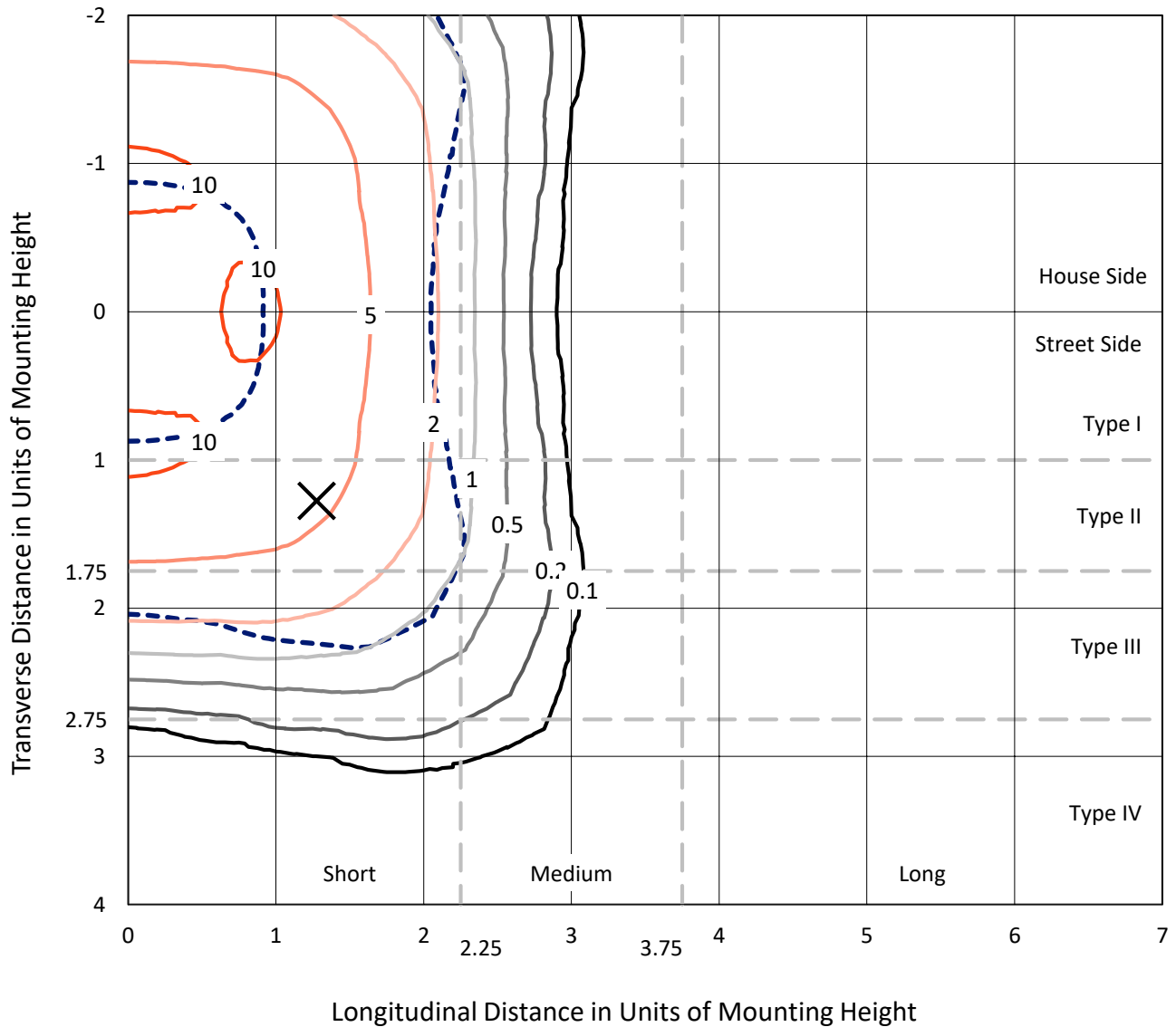
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P232774
 CATALOG NUMBER: CTN-10-9-D-E1-T5N

Iso-Footcandle Lines of Horizontal Illumination

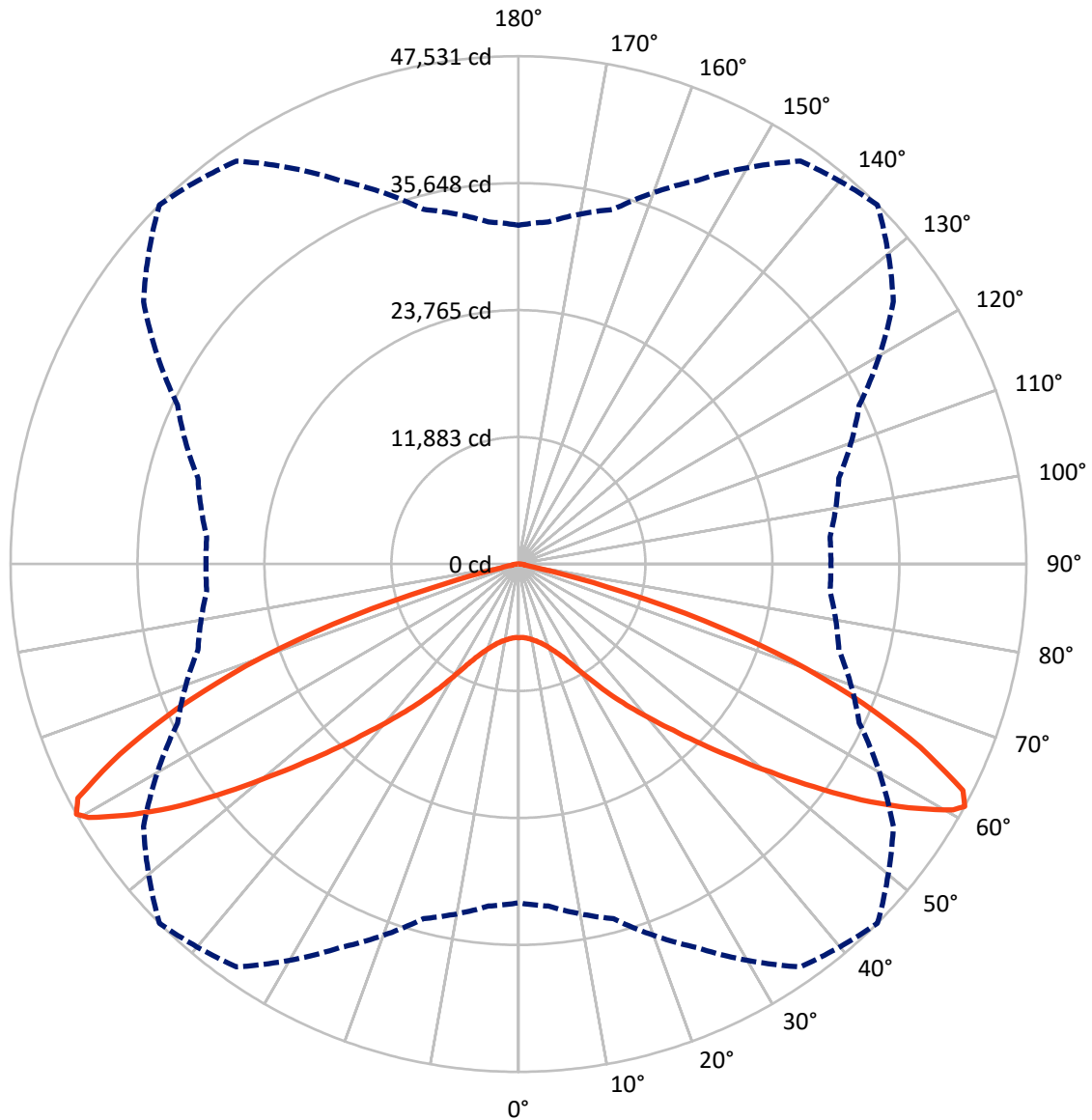
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P232774
CATALOG NUMBER: CTN-10-9-D-E1-T5N

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

REPORT NUMBER: P232774

CATALOG NUMBER: CTN-10-9-D-E1-T5N

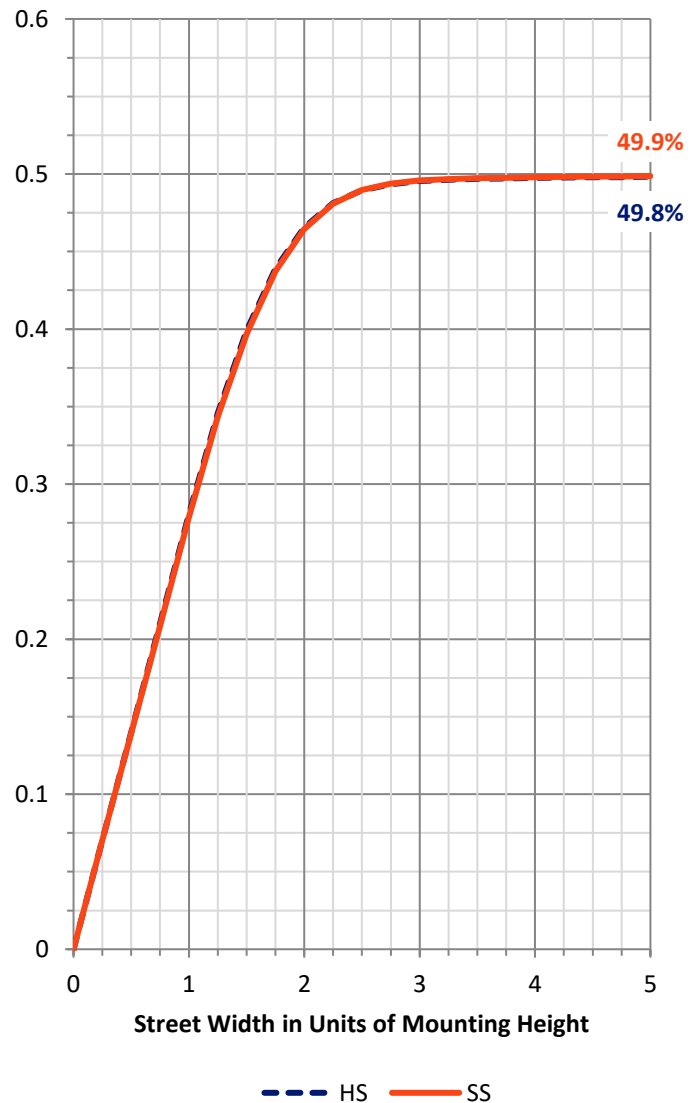
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51251.5	0.0	51251.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	51251.5	0.0	51251.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	102503.0	0.0	102503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.1	0.7
10°-20°	2208.8	2.2
20°-30°	4712.8	4.6
30°-40°	10265.0	10.0
40°-50°	19850.7	19.4
50°-60°	31523.5	30.8
60°-70°	28427.6	27.7
70°-80°	4449.5	4.3
80°-90°	391.0	0.4
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°	102503.0	100.0
0°-180°	102503.0	100.0

Coefficient of Utilization



REPORT NUMBER: P232774

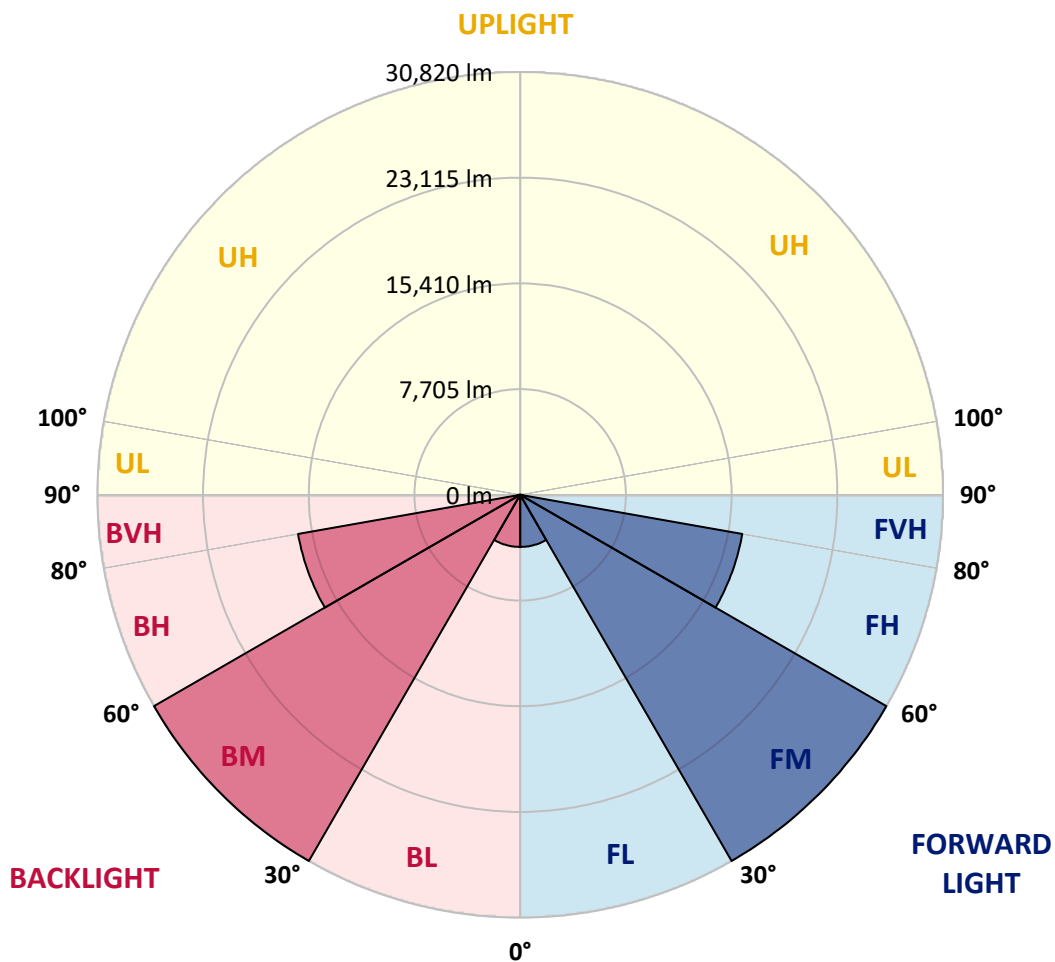
CATALOG NUMBER: CTN-10-9-D-E1-T5N

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3797.9	3.7			
FM (30°-60°)	30819.6	30.1			
FH (60°-80°)	16438.5	16.0			G5
FVH (80°-90°)	195.5	0.2			G2/225
BL (0°-30°)	3797.9	3.7	B4/5000		
BM (30°-60°)	30819.6	30.1	B5		
BH (60°-80°)	16438.5	16.0	B5		G5
BVH (80°-90°)	195.5	0.2			G2/225
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: P232774
 CATALOG NUMBER: CTN-10-9-D-E1-T5N

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0
2.5°	6947.5	6932.6	6944.5	6953.4	6849.5	6876.2	6873.3	6944.5	6929.7	6962.3	6980.1
5°	6995.0	6971.2	6986.1	7009.8	6911.8	6947.5	6947.5	7012.8	6989.0	7021.7	7054.4
7.5°	7081.1	7057.3	7075.1	7104.8	7012.8	7051.4	7054.4	7131.6	7098.9	7125.6	7176.1
10°	7223.6	7208.7	7214.7	7241.4	7155.3	7202.8	7202.8	7285.9	7250.3	7280.0	7342.4
12.5°	7389.9	7383.9	7389.9	7425.5	7345.3	7392.8	7392.8	7473.0	7449.2	7484.9	7544.2
15°	7609.6	7603.6	7606.6	7654.1	7588.8	7633.3	7642.2	7725.4	7719.4	7758.0	7811.5
17.5°	7921.3	7921.3	7918.3	7959.9	7918.3	7962.9	7980.7	8069.8	8105.4	8152.9	8185.6
20°	8396.4	8369.6	8354.8	8375.6	8342.9	8390.4	8420.1	8565.6	8625.0	8699.2	8725.9
22.5°	9016.9	8981.2	8933.7	8913.0	8868.4	8930.8	8990.2	9198.0	9284.1	9405.8	9435.5
25°	9871.9	9812.6	9723.5	9640.4	9539.4	9628.5	9738.3	10023.4	10201.5	10361.8	10385.6
27.5°	11041.7	10952.7	10816.1	10655.8	10477.6	10587.5	10747.8	11163.5	11406.9	11662.3	11700.9
30°	12550.0	12535.1	12321.4	12036.4	11798.8	11861.2	12060.1	12573.7	12959.7	13224.0	13298.2
32.5°	14563.0	14548.1	14188.9	13707.9	13369.4	13411.0	13595.1	14165.1	14646.1	15076.6	15091.5
35°	16961.9	16914.4	16409.7	15744.6	15201.3	15153.8	15334.9	15902.0	16558.2	17059.9	17110.4
37.5°	19702.3	19625.1	19043.2	18036.7	17196.5	17000.5	17128.2	17840.8	18600.8	19167.9	19224.3
40°	22386.3	22326.9	21679.7	20735.5	19506.4	19010.6	19019.5	19930.9	20765.2	21290.8	21406.5
42.5°	24972.3	25019.8	24399.3	23437.3	22151.8	21267.0	21278.9	22163.6	23027.6	23573.9	23725.3
45°	27626.6	27585.0	27003.1	26177.7	24993.1	24013.3	23680.8	24565.6	25423.6	25871.9	26035.2
47.5°	29799.9	29725.7	29333.8	28897.3	28018.5	27053.6	26468.7	27083.3	27674.1	27977.0	28143.2
50°	31694.2	31634.8	31596.2	31412.1	31216.1	30592.6	29630.7	29592.1	29719.8	29785.1	29936.5
52.5°	33297.4	33294.4	33502.3	33953.6	34437.5	34654.3	32988.6	31910.9	31471.5	31147.9	31204.3
55°	34505.8	34491.0	35081.8	36290.2	38000.3	38980.1	36521.8	33917.9	32760.0	32133.6	32127.6
57.5°	35126.3	35153.0	36352.5	38540.7	41711.6	43047.6	39918.3	35761.7	33778.4	32825.3	32813.5
60°	33487.4	33600.3	35951.7	39936.1	44992.3	46738.1	42700.3	36144.7	32673.9	31073.6	31032.1
61°	31712.0	32136.5	34360.3	39618.4	46031.5	47530.8	42833.9	35194.6	31046.9	29280.3	29241.8
62.5°	27807.7	28205.6	31608.0	38825.7	45960.2	46699.5	42073.8	33487.4	28493.6	26525.1	26444.9
65°	20177.4	20646.5	24310.2	34398.9	41779.9	41340.5	38270.5	29568.3	23894.6	21679.7	21578.7
67.5°	10145.1	10744.8	14856.9	24963.4	33944.7	34778.9	32673.9	23410.6	16935.2	12787.5	12775.6
70°	2621.6	2877.0	5356.1	13128.9	24479.5	27240.6	24912.9	13562.4	6585.3	3972.5	3726.1
72.5°	733.3	769.0	1454.8	4783.1	13921.7	18250.5	13506.0	4741.5	1484.5	846.2	774.9
75°	516.6	525.5	579.0	1211.4	5258.1	8518.1	4352.6	1024.3	593.8	561.1	561.1
77.5°	460.2	466.1	501.8	653.2	1101.5	1915.0	834.3	662.1	522.5	504.7	498.8
80°	486.9	492.9	513.6	632.4	647.2	688.8	579.0	573.0	519.6	531.5	525.5
82.5°	522.5	534.4	561.1	647.2	555.2	558.2	475.0	472.1	460.2	522.5	525.5
85°	463.2	483.9	504.7	567.1	457.2	374.1	388.9	308.8	329.6	391.9	377.1
87.5°	258.3	255.3	246.4	258.3	231.6	187.0	157.4	142.5	130.6	148.5	145.5
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)