

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: STREETWORKS

Report Number: P721914

Luminaire Tested: **CST-CA8-430-730-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-730-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66056 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

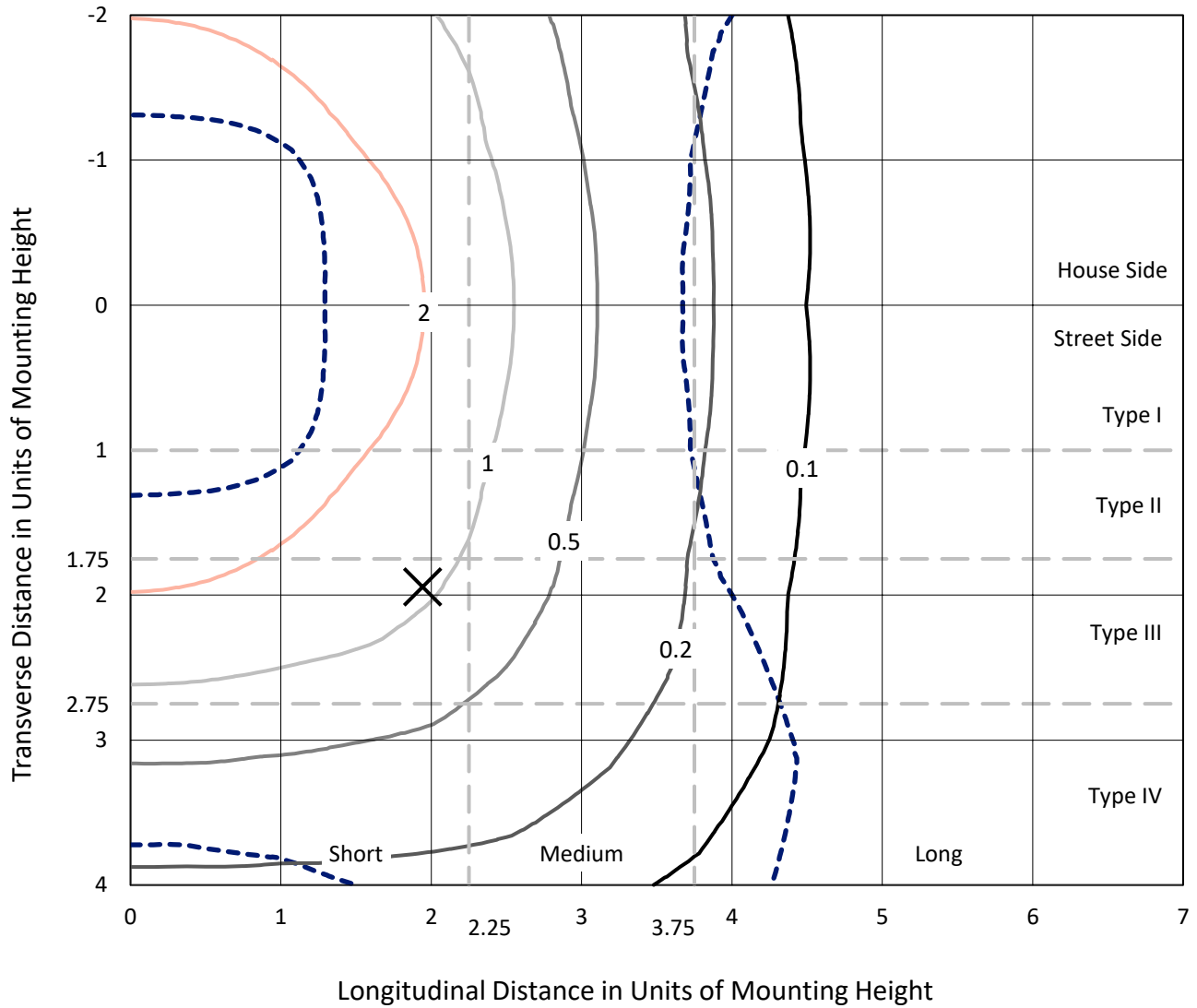
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

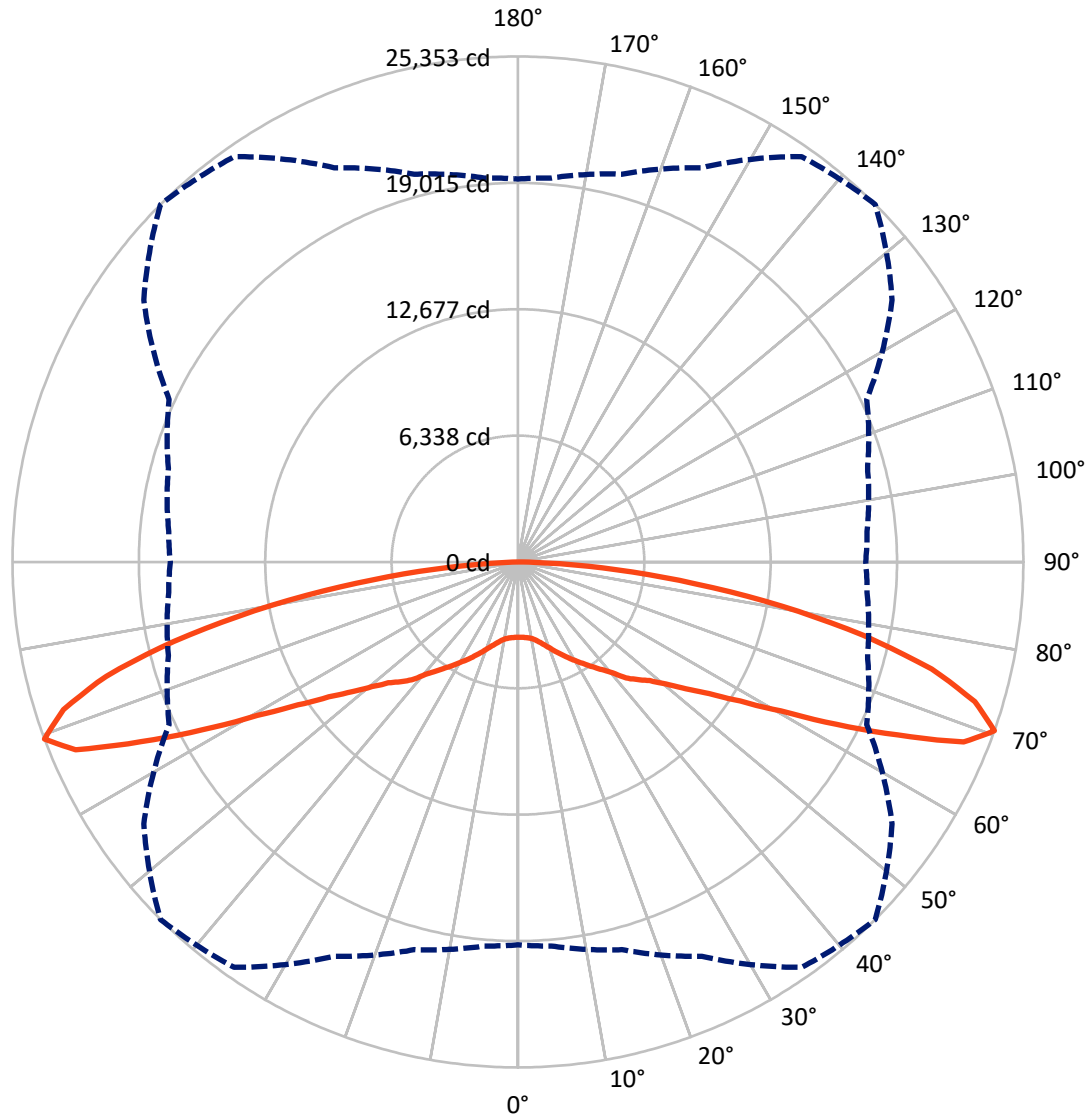
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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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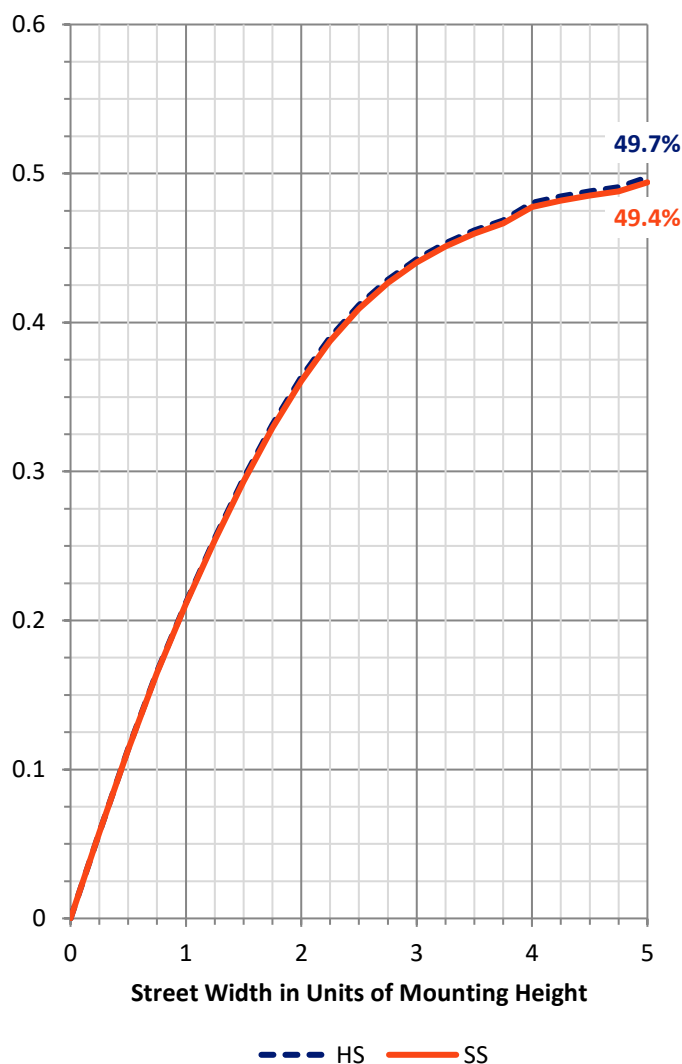
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33028.0	0.0	33028.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33028.0	0.0	33028.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66056.0	0.0	66056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.0	0.6
10°-20°	1195.1	1.8
20°-30°	2365.9	3.6
30°-40°	4092.8	6.2
40°-50°	6809.7	10.3
50°-60°	11877.2	18.0
60°-70°	19662.1	29.8
70°-80°	16478.4	24.9
80°-90°	3207.8	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°	66056.0	100.0
0°-180°	66056.0	100.0

Coefficient of Utilization



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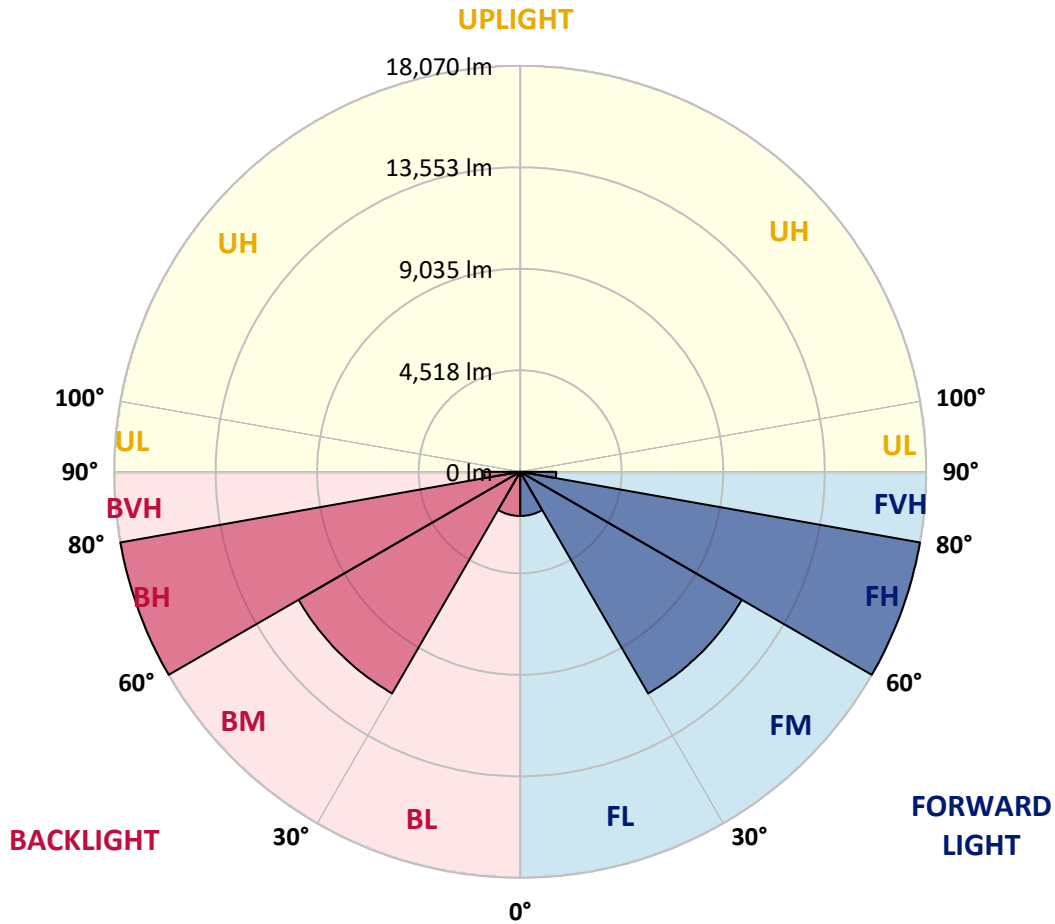
CATALOG NUMBER: CST-CA8-430-730-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.0	3.0			
FM (30°-60°)	11389.8	17.2			
FH (60°-80°)	18070.3	27.4			G5
FVH (80°-90°)	1603.9	2.4			G5
BL (0°-30°)	1964.0	3.0	B3/2500		
BM (30°-60°)	11389.8	17.2	B5		
BH (60°-80°)	18070.3	27.4	B5		G5
BVH (80°-90°)	1603.9	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°	3775.3	3775.3	3775.3	3775.3	3775.3	3775.3	3775.3	3775.3	3775.3	3775.3	3775.3
2.5°	3798.9	3787.1	3783.2	3779.2	3781.9	3780.5	3787.1	3789.7	3792.3	3804.1	3797.5
5°	3822.4	3813.2	3811.9	3806.7	3805.4	3805.4	3814.6	3815.9	3817.2	3825.0	3817.2
7.5°	3865.6	3856.4	3853.8	3851.2	3849.9	3844.6	3851.2	3848.6	3851.2	3855.1	3846.0
10°	3933.6	3923.1	3920.5	3914.0	3917.9	3910.0	3915.3	3908.7	3897.0	3899.6	3886.5
12.5°	4026.5	4017.3	4021.2	4019.9	4035.6	4031.7	4021.2	4008.2	3988.5	3975.5	3961.1
15°	4163.8	4149.4	4159.9	4170.4	4186.1	4192.6	4184.8	4149.4	4120.7	4099.7	4088.0
17.5°	4331.3	4307.7	4328.7	4349.6	4383.6	4390.1	4361.4	4318.2	4286.8	4277.6	4258.0
20°	4526.2	4522.3	4523.6	4557.6	4609.9	4619.1	4581.1	4530.1	4498.7	4500.0	4477.8
22.5°	4761.7	4740.7	4747.3	4781.3	4855.8	4880.7	4817.9	4761.7	4742.0	4747.3	4744.6
25°	5031.1	5011.5	5002.4	5018.0	5114.9	5158.0	5097.8	5032.4	5023.3	5035.1	5016.7
27.5°	5326.8	5308.5	5298.0	5305.8	5381.7	5462.8	5396.1	5341.2	5339.9	5356.9	5346.4
30°	5663.0	5635.5	5623.7	5632.9	5685.2	5763.7	5710.1	5677.4	5704.8	5716.6	5712.7
32.5°	6003.1	5990.0	5986.1	5983.5	6047.6	6092.0	6065.9	6072.4	6094.7	6148.3	6131.3
35°	6390.3	6352.4	6362.8	6370.7	6454.4	6458.3	6460.9	6472.7	6531.6	6607.4	6563.0
37.5°	6793.2	6784.0	6790.6	6768.3	6829.8	6854.7	6891.3	6930.6	7023.4	7111.1	7092.8
40°	7291.6	7274.6	7281.1	7255.0	7285.1	7304.7	7379.3	7464.3	7583.3	7677.5	7634.3
42.5°	7952.2	7909.1	7909.1	7916.9	7979.7	7958.8	8118.4	8141.9	8289.7	8369.5	8344.7
45°	8729.3	8713.6	8631.1	8492.5	8414.0	8412.7	8540.9	8731.9	8976.5	9142.6	9141.3
47.5°	9716.9	9668.5	9471.0	9137.4	8938.6	8890.2	9024.9	9396.4	9846.4	10105.4	10101.5
50°	11012.0	10950.5	10650.9	10132.9	9745.7	9626.6	9842.5	10323.9	10929.6	11274.9	11303.7
52.5°	12461.4	12466.6	12127.8	11344.2	10771.3	10556.7	10785.7	11473.8	12228.6	12702.1	12758.4
55°	14145.0	14104.4	13783.9	12895.7	12106.9	11646.4	11993.1	12904.9	13772.2	14133.2	14232.6
57.5°	15897.9	15739.6	15493.7	14663.0	13740.8	13152.1	13568.1	14460.2	15290.9	15751.4	15735.7
60°	17452.0	17347.3	17206.0	16544.1	15836.4	15164.0	15484.5	16239.3	16951.0	17229.6	17241.4
62.5°	19150.0	19062.3	18935.4	18573.1	18183.2	17933.4	17643.0	17992.2	18548.2	18853.0	18952.4
65°	20816.5	20785.1	20858.4	20803.5	20968.3	20931.6	20235.7	20015.9	20025.1	19938.8	19894.3
67.5°	20718.4	20706.6	21138.3	21999.1	23642.1	24107.8	22322.2	20333.8	19437.7	19210.1	19177.4
70°	19207.5	19334.4	20133.7	21818.6	24816.8	25353.2	22908.3	19299.1	18153.1	17582.8	17441.5
72.5°	16300.8	16549.4	17775.1	20256.6	23841.0	23963.9	21435.3	17742.4	16054.9	15374.6	15273.9
75°	12577.8	12609.2	13863.7	17017.7	21277.0	21431.4	19121.2	14881.5	13221.4	12375.1	12348.9
77.5°	7660.5	8106.6	9936.7	12759.7	16914.3	17717.5	15992.1	11853.1	9879.1	9129.6	8710.9
80°	3758.3	3962.4	5281.0	8067.3	12089.9	13436.0	11867.5	8198.2	6093.3	5142.3	5037.7
82.5°	1711.1	1819.6	2498.6	4217.5	7295.5	8963.4	7324.3	4694.9	3253.4	2544.3	2520.8
85°	664.5	660.6	1011.2	1769.9	3492.8	4963.1	3708.6	2239.5	1488.7	1106.7	1043.9
87.5°	193.6	206.7	296.9	580.8	1034.7	1394.5	1143.3	774.4	457.9	294.3	270.8
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)