

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: P510724

Luminaire Tested: **CTN-CA8-230-730-U-T5R**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-230-730-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37667.9 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

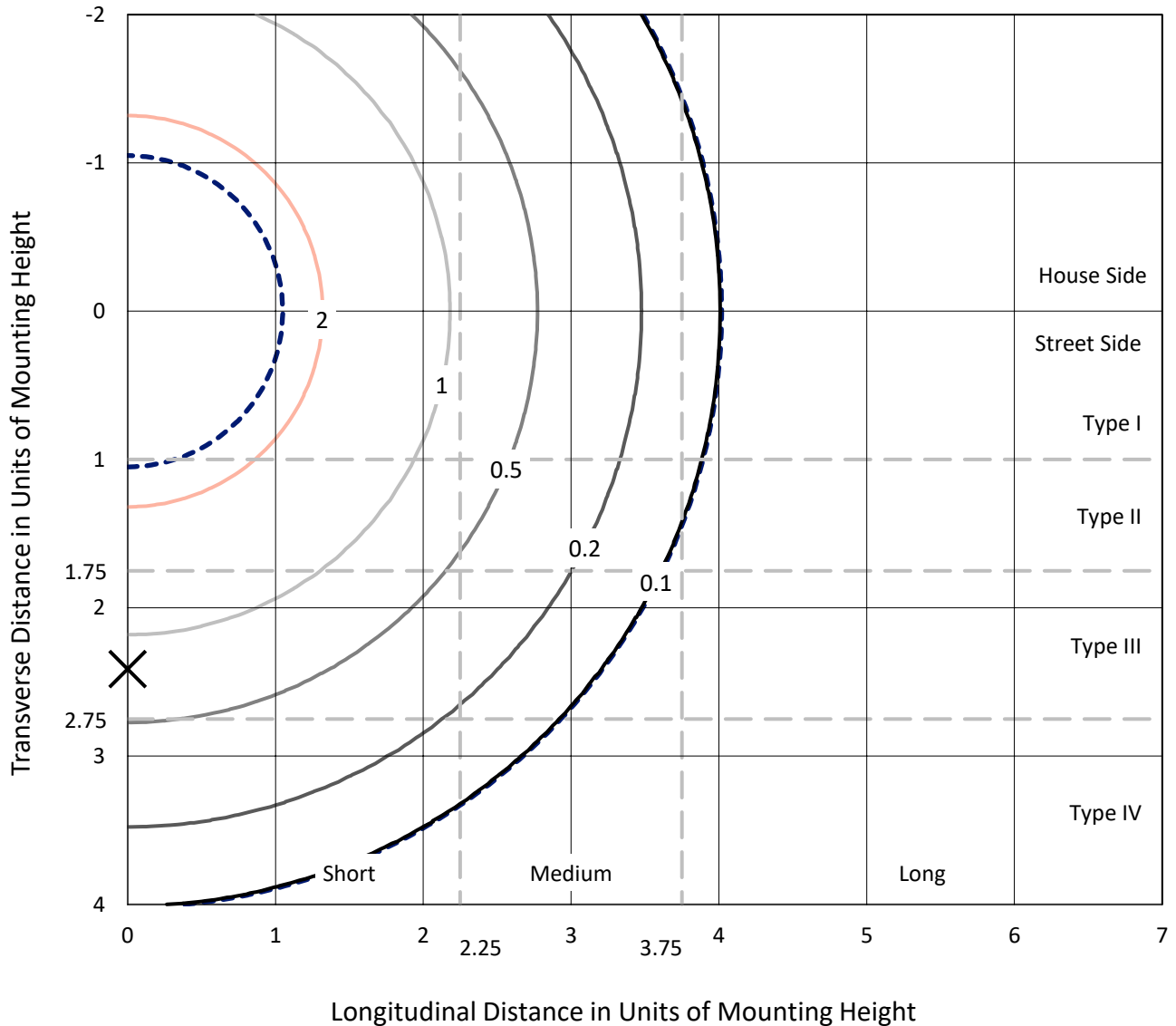
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

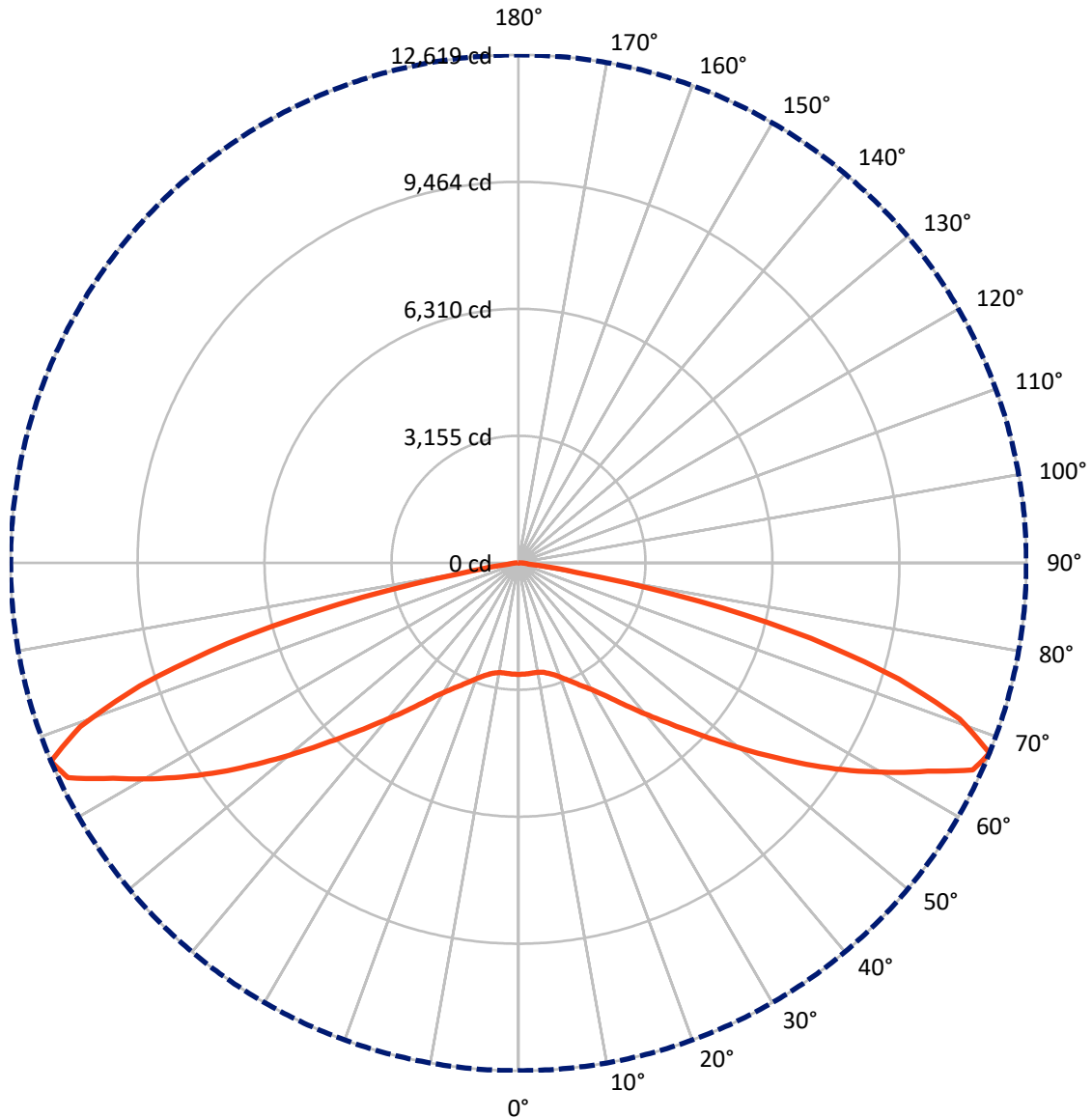
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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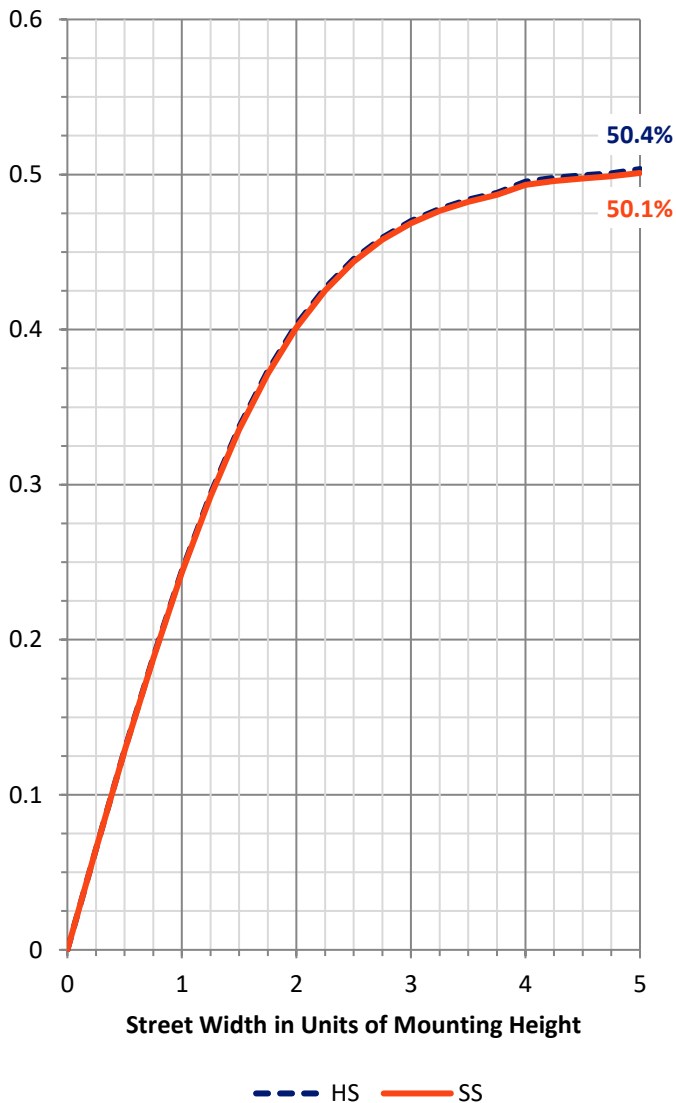
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18834.0	0.0	18834.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18834.0	0.0	18834.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37667.9	0.0	37667.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	0.7
10°-20°	817.9	2.2
20°-30°	1552.2	4.1
30°-40°	2696.0	7.2
40°-50°	4692.7	12.5
50°-60°	8016.9	21.3
60°-70°	11806.5	31.3
70°-80°	7505.2	19.9
80°-90°	316.5	0.8
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°	37667.9	100.0
0°-180°	37667.9	100.0



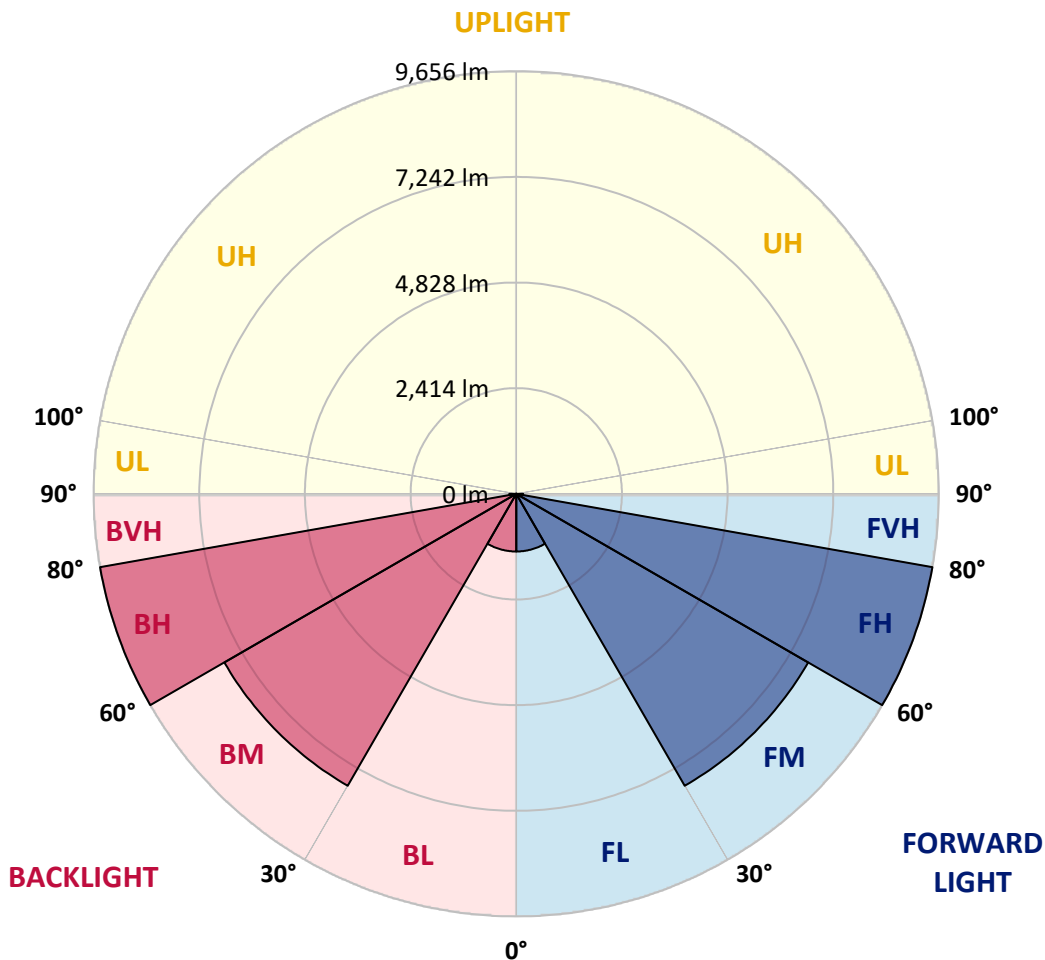
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.1	3.5			
FM (30°-60°)	7702.8	20.4			
FH (60°-80°)	9655.8	25.6			G4/12000
FVH (80°-90°)	158.3	0.4			G2/225
BL (0°-30°)	1317.1	3.5	B3/2500		
BM (30°-60°)	7702.8	20.4	B4/8500		
BH (60°-80°)	9655.8	25.6	B5		G4/12000
BVH (80°-90°)	158.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	2770.7
2.5°	2771.4
5°	2765.9
7.5°	2761.3
10°	2766.0
12.5°	2795.7
15°	2853.0
17.5°	2933.2
20°	3042.1
22.5°	3170.7
25°	3322.2
27.5°	3486.3
30°	3679.4
32.5°	3916.6
35°	4228.2
37.5°	4586.8
40°	4985.3
42.5°	5433.2
45°	5964.8
47.5°	6577.8
50°	7287.8
52.5°	8054.7
55°	8896.0
57.5°	9736.2
60°	10571.8
62.5°	11409.7
65°	12407.4
67.5°	12619.3
70°	11626.1
72.5°	9888.5
75°	7507.7
77.5°	4589.9
80°	1456.8
82.5°	247.3
85°	139.7
87.5°	50.6
90°	0.0

(END OF REPORT)