

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 769250_400MP

Luminaire Tested: **ACN400MXX5C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769250_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN400MXX5C
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE V CUTOFF
W/SPECULAR CHIMNEY
Light Source: 400 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 44000 (1 lamp)
Luminaire Lumens: 32797.1 lumens
Efficiency: 74.5%
Efficacy: 72.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U3 - G2

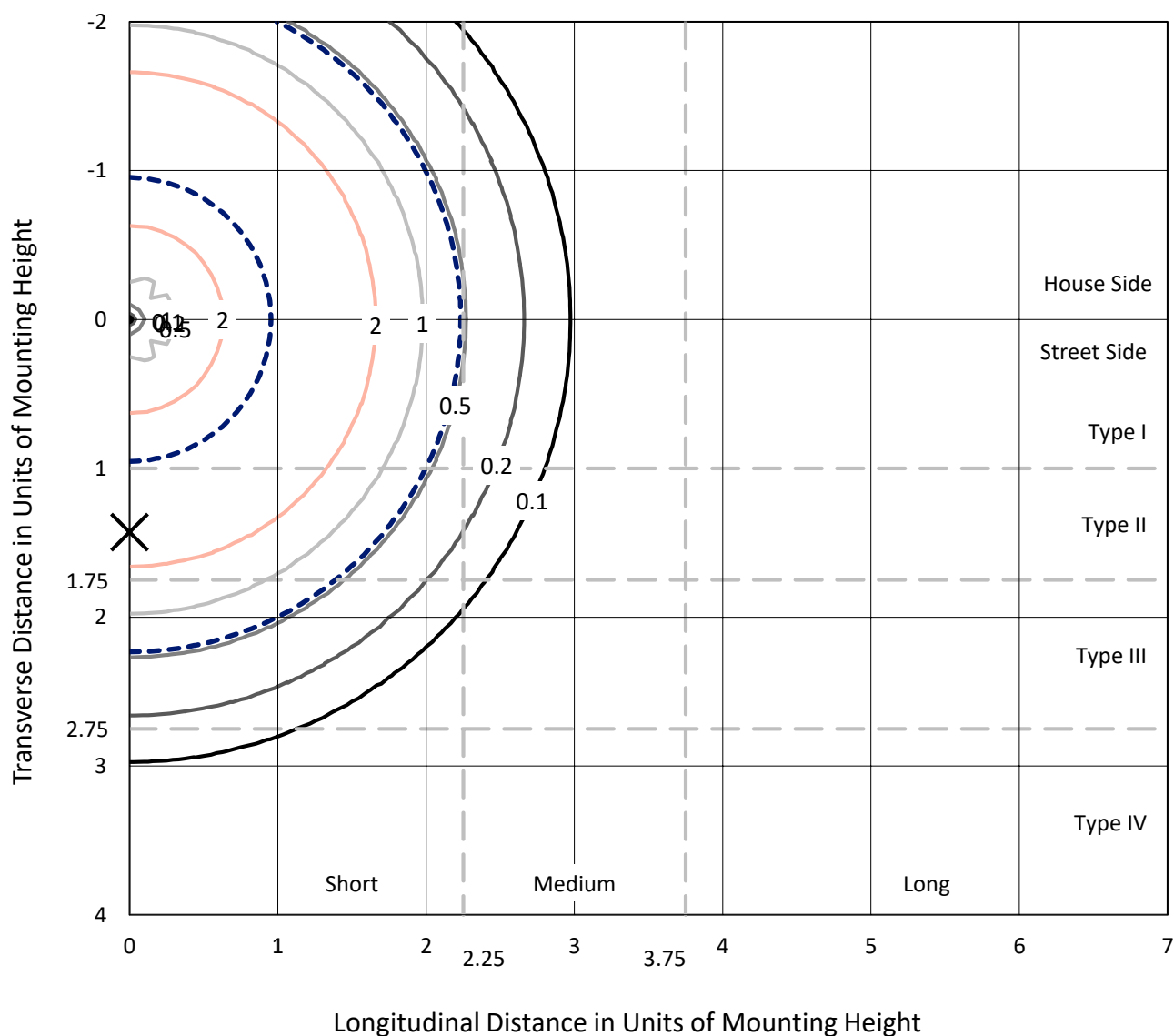
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

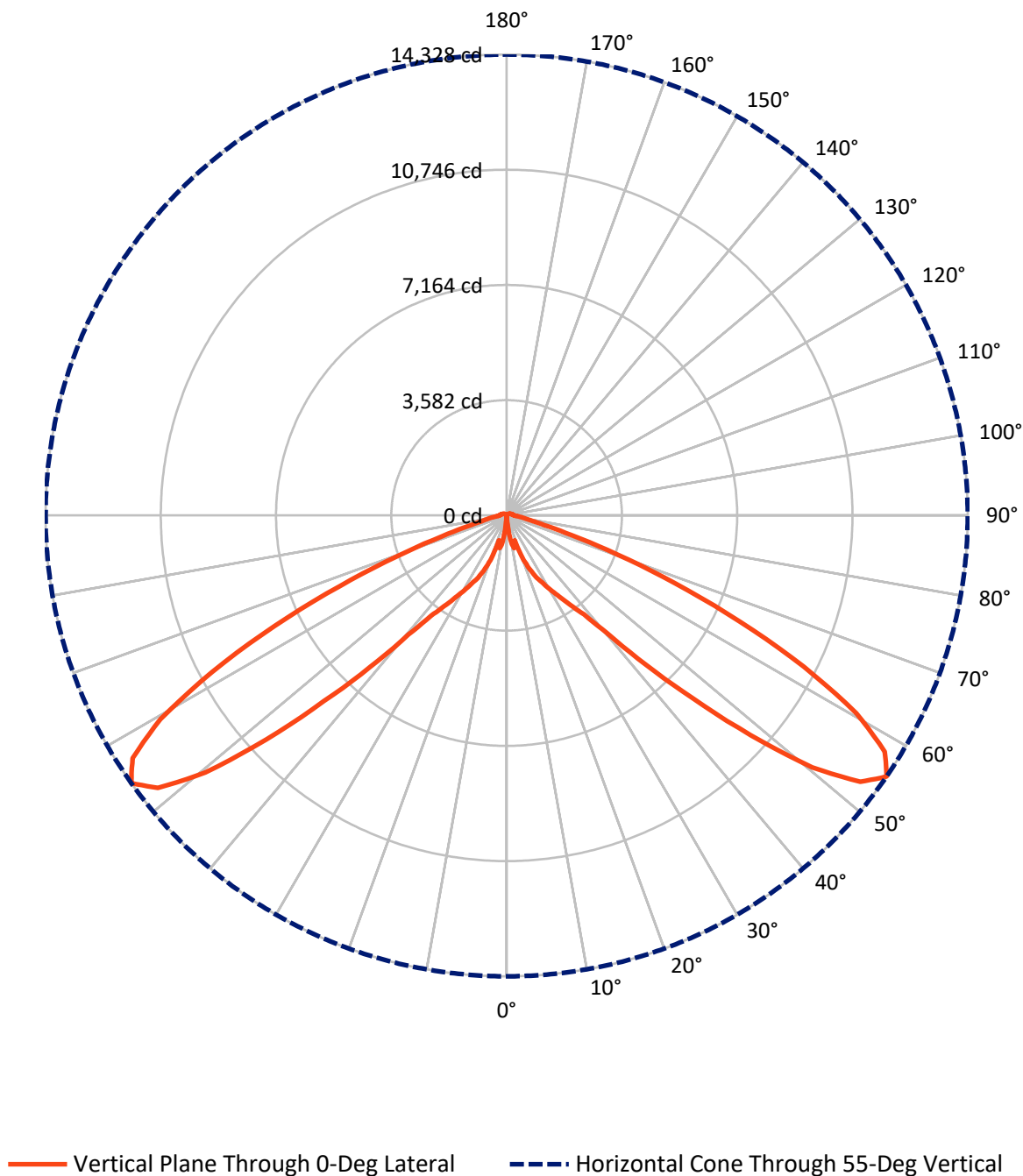
× Max cd
- - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc
Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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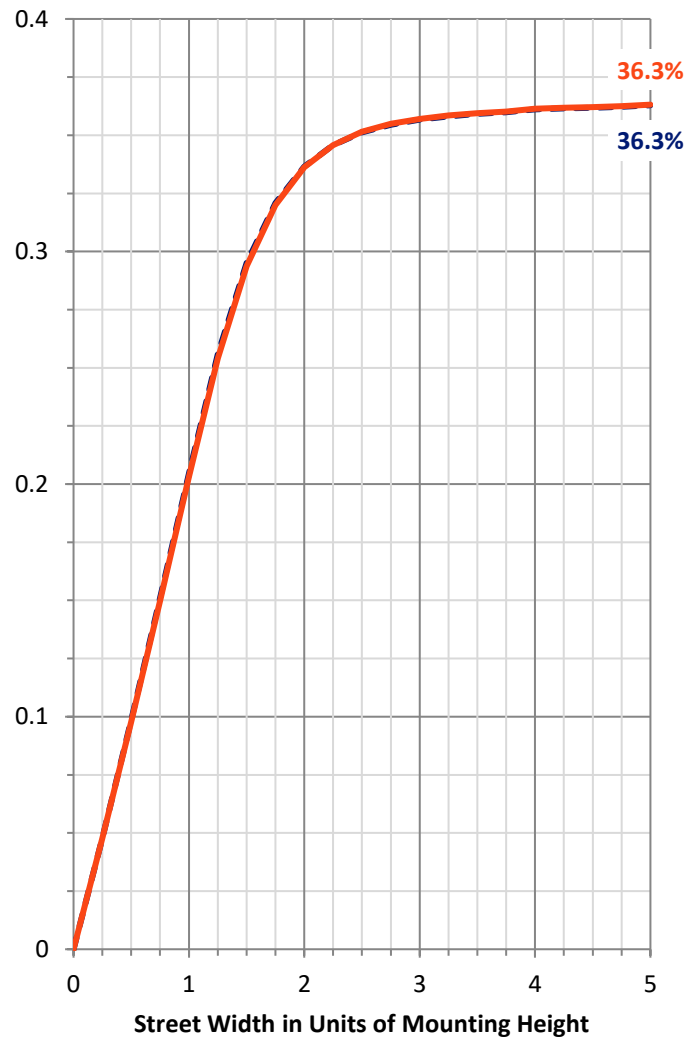
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16078.8	319.7	16398.6
	% Lamp	36.5	0.7	37.3
Street Side	Lumens	16078.8	319.7	16398.6
	% Lamp	36.5	0.7	37.3
Total	Lumens	32157.7	639.5	32797.1
	% Lamp	73.1	1.5	74.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.2	0.1	0.1
10°-20°	282.4	0.9	0.6
20°-30°	979.8	3.0	2.2
30°-40°	2235.2	6.8	5.1
40°-50°	6507.4	19.8	14.8
50°-60°	12190.8	37.2	27.7
60°-70°	7892.8	24.1	17.9
70°-80°	1628.0	5.0	3.7
80°-90°	395.1	1.2	0.9
90°-100°	218.4	0.7	0.5
100°-110°	165.5	0.5	0.4
110°-120°	118.0	0.4	0.3
120°-130°	76.8	0.2	0.2
130°-140°	41.6	0.1	0.1
140°-150°	17.5	0.1	0.0
150°-160°	5.5	0.0	0.0
160°-170°	1.1	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	32157.7	98.1	73.1
0°-180°	32797.1	100.0	74.5

Coefficient of Utilization



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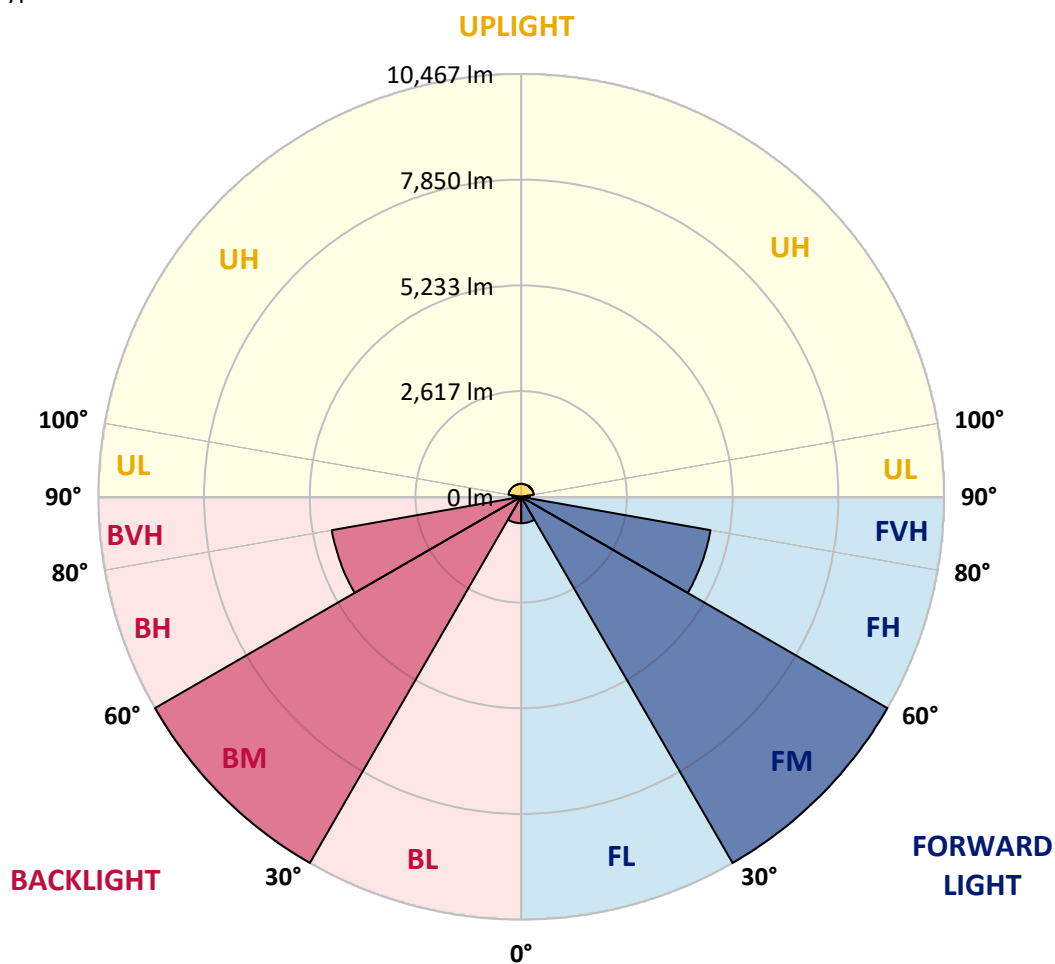
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.2	1.5			
FM	(30°-60°)	10466.7	23.8			
FH	(60°-80°)	4760.4	10.8			G2/5000
FVH	(80°-90°)	197.5	0.4			G2/225
BL	(0°-30°)	654.2	1.5	B2/1000		
BM	(30°-60°)	10466.7	23.8	B5		
BH	(60°-80°)	4760.4	10.8	B4/5000		G2/5000
BVH	(80°-90°)	197.5	0.4			G2/225
UL	(90°-100°)	218.4	0.5		U3/500	
UH	(100°-180°)	319.7	0.7		U3/500	
Trapped Light		11202.9	25.5			

BUG Rating: B5-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	12.2
2.5°	12.2
5°	202.9
7.5°	620.9
10°	909.3
12.5°	1041.3
15°	946.0
17.5°	812.8
20°	1412.9
22.5°	1785.7
25°	2120.6
27.5°	2369.9
30°	2681.6
32.5°	3010.3
35°	3427.1
37.5°	3902.6
40°	4794.8
42.5°	6347.0
45°	8092.3
47.5°	10204.3
50°	12311.4
52.5°	13757.3
55°	14328.1
57.5°	13857.6
60°	12489.9
62.5°	10365.7
65°	7975.0
67.5°	5635.7
70°	3632.4
72.5°	2093.7
75°	1207.6
77.5°	788.3
80°	585.4
82.5°	446.1
85°	341.0
87.5°	262.8
90°	215.1
95°	204.1
105°	150.3
115°	121.0
125°	83.1
135°	55.0
145°	22.0
155°	12.2
165°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
175°	1.2
180°	0.0

(END OF REPORT)