

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_320MP

Luminaire Tested: **ACN320MXX5C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769250_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN320MXX5C
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE V CUTOFF
W/SPECULAR CHIMNEY
Light Source: 320 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 24597.9 lumens
Efficiency: 74.5%
Efficacy: 70.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U3 - G2

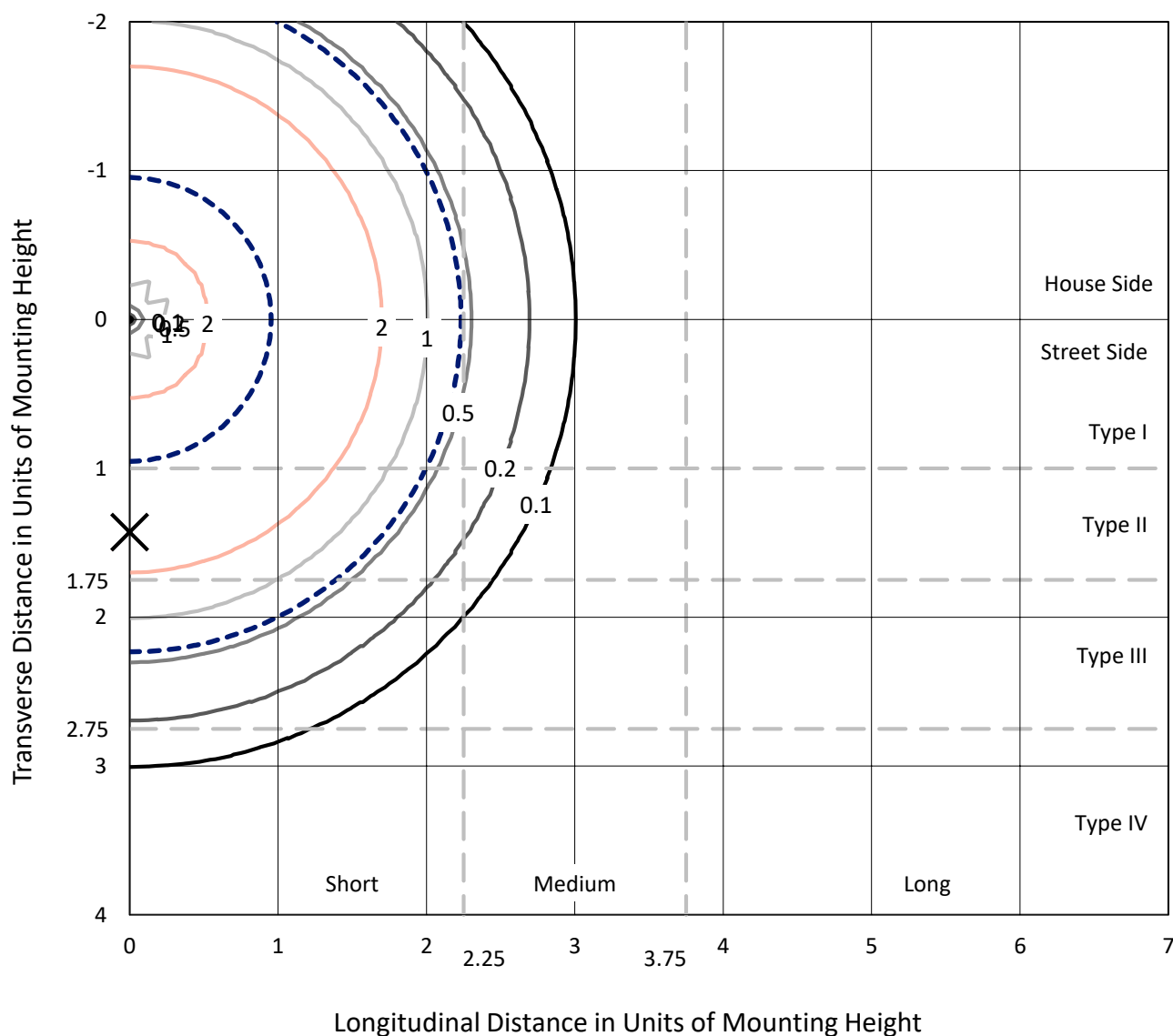
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 769250_320MP
 CATALOG NUMBER: ACN320MXX5C

Iso-Footcandle Lines of Horizontal Illumination

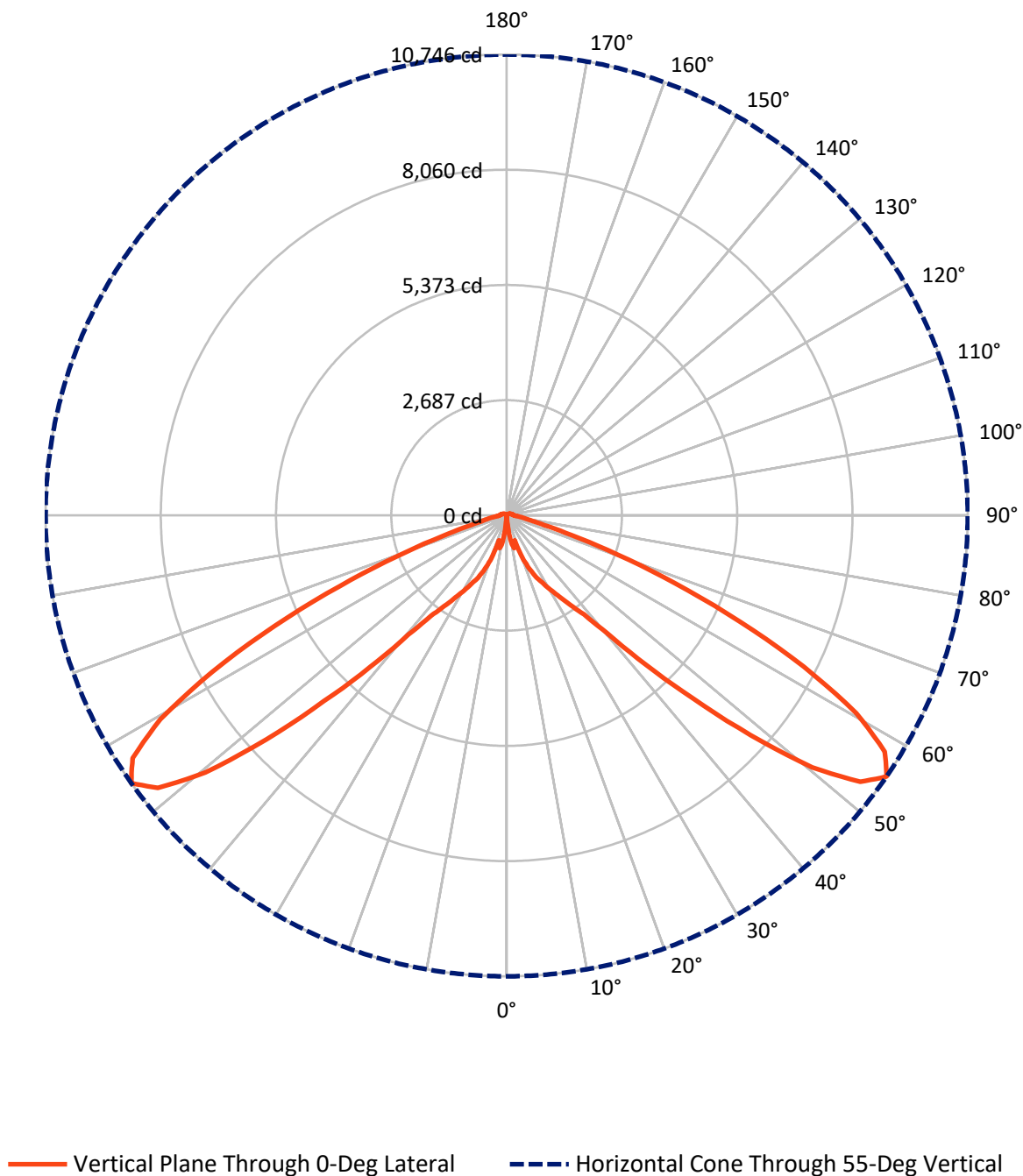
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Cutoff

REPORT NUMBER: 769250_320MP
CATALOG NUMBER: ACN320MXX5C

Luminous Intensity Polar Plot



REPORT NUMBER: 769250_320MP

CATALOG NUMBER: ACN320MXX5C

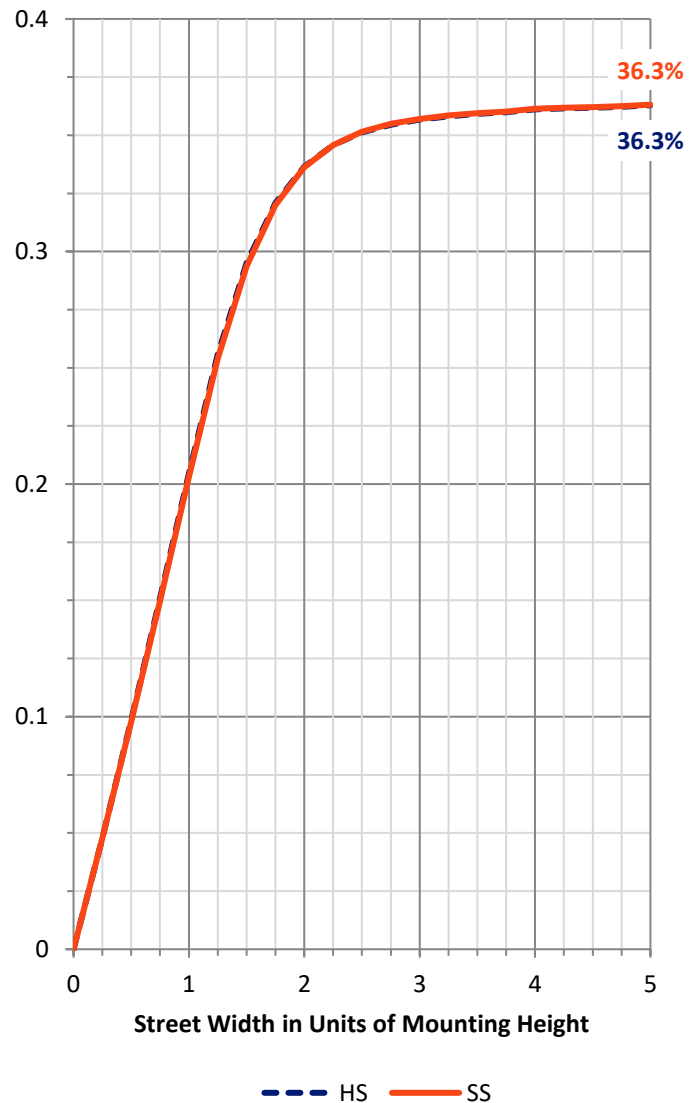
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12059.1	239.9	12299.0
	% Lamp	36.5	0.7	37.3
Street Side	Lumens	12059.1	239.9	12299.0
	% Lamp	36.5	0.7	37.3
Total	Lumens	24118.2	479.7	24597.9
	% Lamp	73.1	1.5	74.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.7	0.1	0.1
10°-20°	211.8	0.9	0.6
20°-30°	734.8	3.0	2.2
30°-40°	1676.4	6.8	5.1
40°-50°	4880.6	19.8	14.8
50°-60°	9143.1	37.2	27.7
60°-70°	5919.6	24.1	17.9
70°-80°	1221.0	5.0	3.7
80°-90°	296.3	1.2	0.9
90°-100°	163.8	0.7	0.5
100°-110°	124.2	0.5	0.4
110°-120°	88.5	0.4	0.3
120°-130°	57.6	0.2	0.2
130°-140°	31.2	0.1	0.1
140°-150°	13.1	0.1	0.0
150°-160°	4.1	0.0	0.0
160°-170°	0.8	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24118.2	98.0	73.1
0°-180°	24597.9	100.0	74.5

Coefficient of Utilization



REPORT NUMBER: 769250_320MP

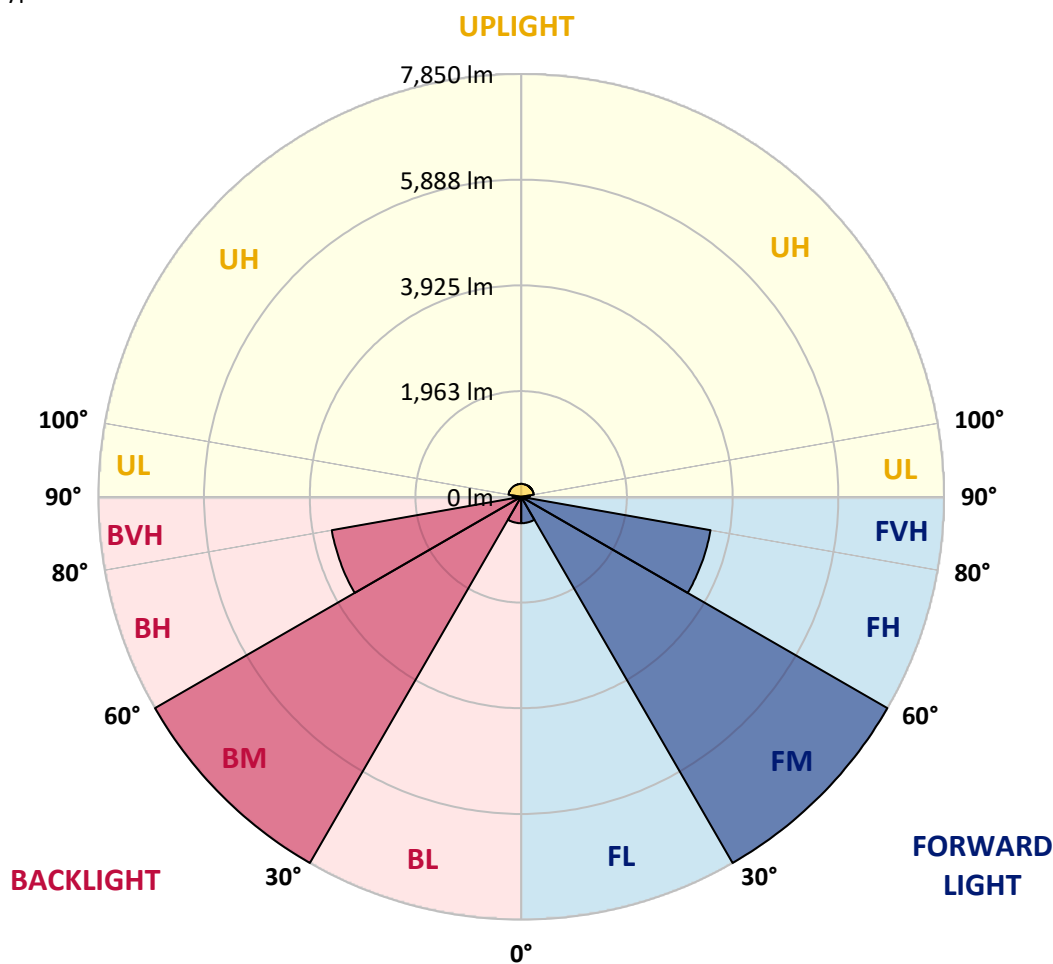
CATALOG NUMBER: ACN320MXX5C

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.7	1.5			
FM	(30°-60°)	7850.0	23.8			
FH	(60°-80°)	3570.3	10.8			G2/5000
FVH	(80°-90°)	148.2	0.4			G2/225
BL	(0°-30°)	490.7	1.5	B1/500		
BM	(30°-60°)	7850.0	23.8	B4/8500		
BH	(60°-80°)	3570.3	10.8	B4/5000		G2/5000
BVH	(80°-90°)	148.2	0.4			G2/225
UL	(90°-100°)	163.8	0.5		U3/500	
UH	(100°-180°)	239.9	0.7		U3/500	
Trapped Light		8402.1	25.5			

BUG Rating: B4-U3-G2

Type V Short





REPORT NUMBER: 769250_320MP
CATALOG NUMBER: ACN320MXX5C

CANDELA DISTRIBUTION (FULL):

0°	
0°	9.2
2.5°	9.2
5°	152.2
7.5°	465.7
10°	682.0
12.5°	781.0
15°	709.5
17.5°	609.6
20°	1059.7
22.5°	1339.2
25°	1590.4
27.5°	1777.4
30°	2011.2
32.5°	2257.8
35°	2570.3
37.5°	2926.9
40°	3596.1
42.5°	4760.2
45°	6069.2
47.5°	7653.2
50°	9233.6
52.5°	10318.0
55°	10746.1
57.5°	10393.2
60°	9367.4
62.5°	7774.2
65°	5981.2
67.5°	4226.8
70°	2724.3
72.5°	1570.2
75°	905.7
77.5°	591.2
80°	439.1
82.5°	334.6
85°	255.8
87.5°	197.1
90°	161.3
95°	153.1
105°	112.8
115°	90.8
125°	62.3
135°	41.2
145°	16.5
155°	9.2
165°	0.9



REPORT NUMBER: 769250_320MP
CATALOG NUMBER: ACN320MXX5C

CANDELA DISTRIBUTION (continued):

	0°
175°	0.9
180°	0.0

(END OF REPORT)