

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: 769092

Luminaire Tested: **ARC85QLX5C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769092
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC85QLX5C
Description: Architectural Post Top Luminaire - TYPE V CUTOFF
Light Source: 85 WATT PHILIPS QL INDUCTION LAMP
Ballast/Driver: -

Summary

Lumens per Lamp: 6000 (1 lamp)
Luminaire Lumens: 2713.6 lumens
Efficiency: 45.2%
Efficacy: 31.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B1 - U2 - G1

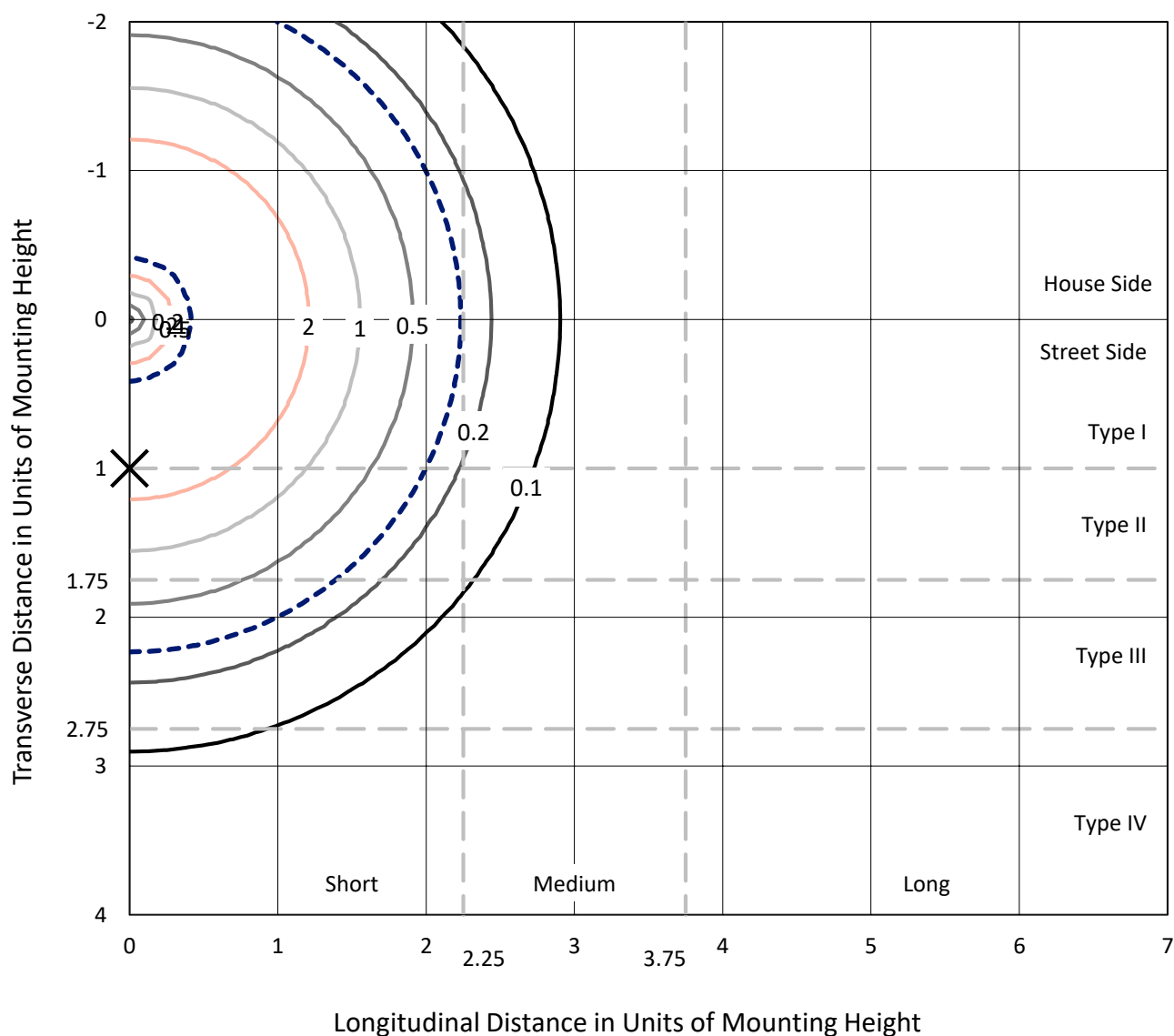
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

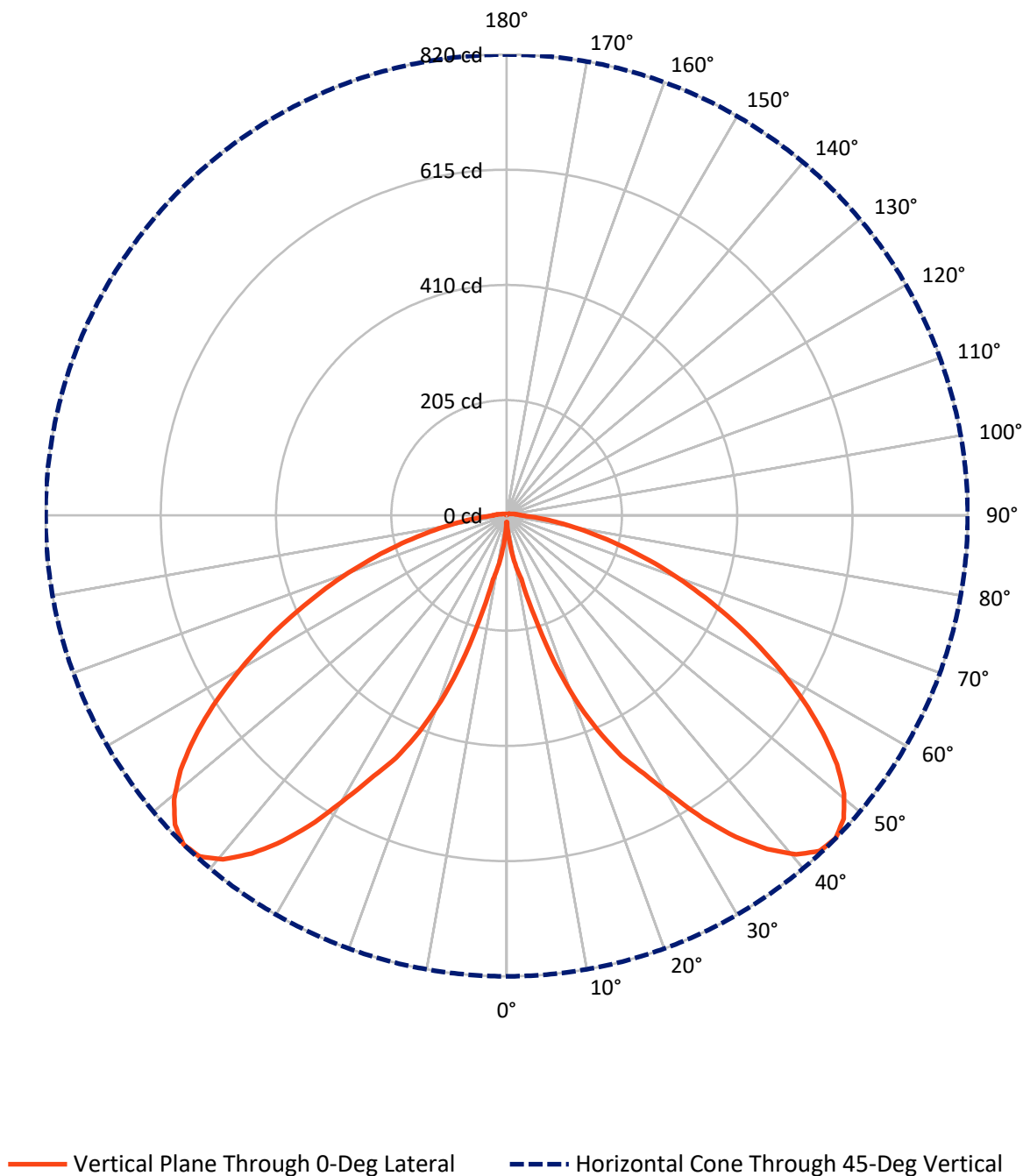
× Max cd
 --- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
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Luminous Intensity Polar Plot



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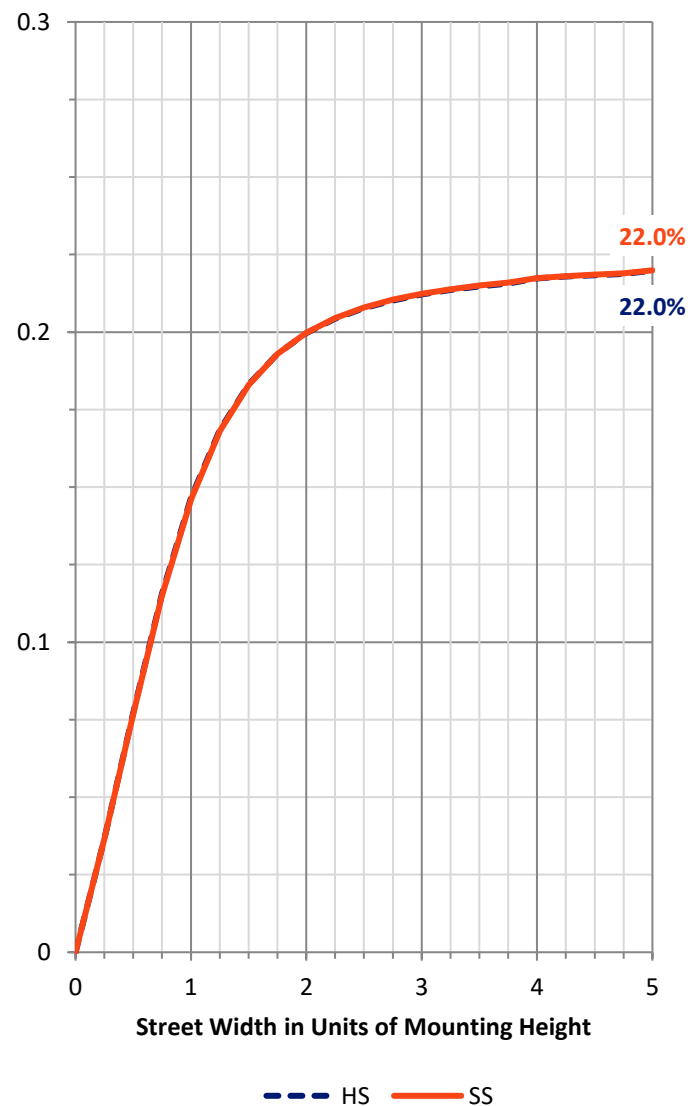
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1333.3	23.5	1356.8
	% Lamp	22.2	0.4	22.6
Street Side	Lumens	1333.3	23.5	1356.8
	% Lamp	22.2	0.4	22.6
Total	Lumens	2666.6	47.0	2713.6
	% Lamp	44.4	0.8	45.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.4	0.2	0.1
10°-20°	60.7	2.2	1.0
20°-30°	219.6	8.1	3.7
30°-40°	439.7	16.2	7.3
40°-50°	624.6	23.0	10.4
50°-60°	605.5	22.3	10.1
60°-70°	428.2	15.8	7.1
70°-80°	217.6	8.0	3.6
80°-90°	65.3	2.4	1.1
90°-100°	20.3	0.7	0.3
100°-110°	11.2	0.4	0.2
110°-120°	6.6	0.2	0.1
120°-130°	4.4	0.2	0.1
130°-140°	3.0	0.1	0.0
140°-150°	1.8	0.1	0.0
150°-160°	0.7	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	2666.6	98.3	44.4
0°-180°	2713.6	100.0	45.2

Coefficient of Utilization



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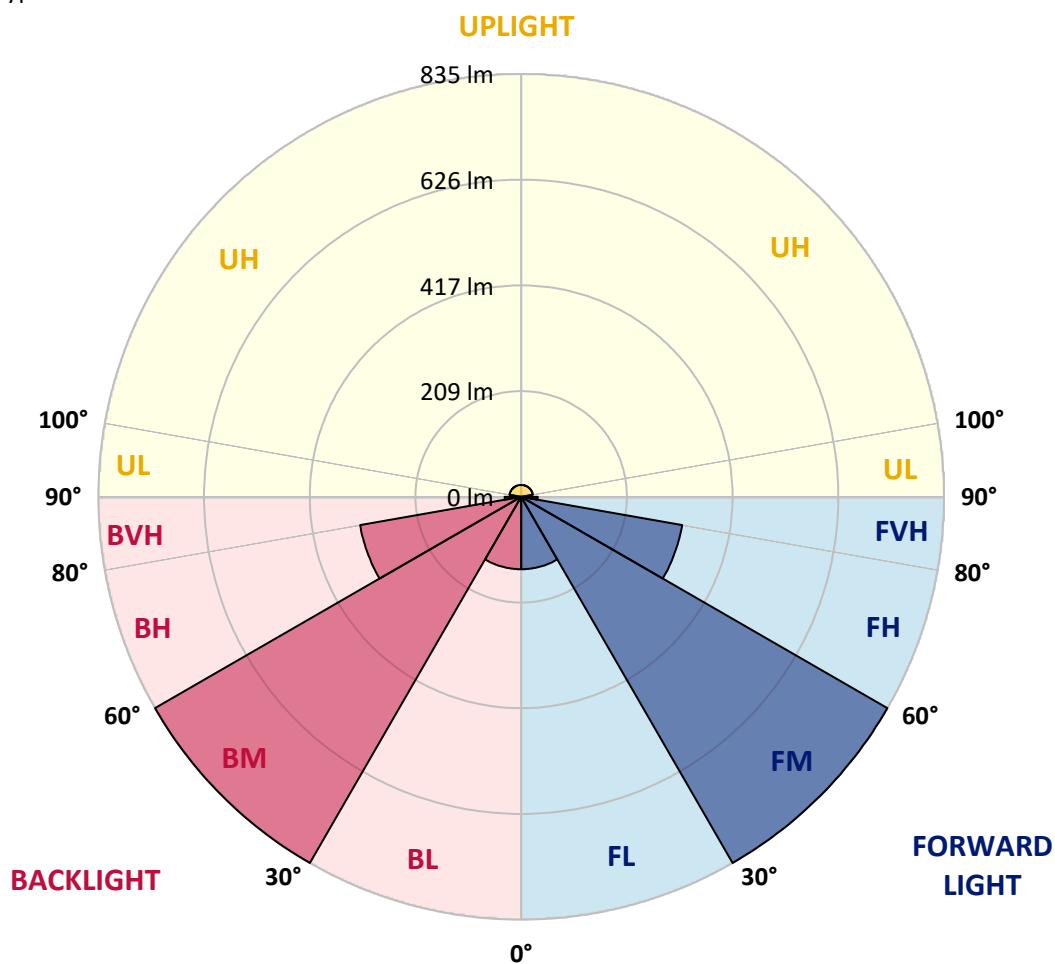
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.9	2.4			
FM	(30°-60°)	834.9	13.9			
FH	(60°-80°)	322.9	5.4			G0/660
FVH	(80°-90°)	32.7	0.5			G1/100
BL	(0°-30°)	142.9	2.4	B1/500		
BM	(30°-60°)	834.9	13.9	B1/1000		
BH	(60°-80°)	322.9	5.4	B1/500		G0/660
BVH	(80°-90°)	32.7	0.5			G1/100
UL	(90°-100°)	20.3	0.3		U2/50	
UH	(100°-180°)	23.5	0.4		U2/50	
Trapped Light		3286.4	54.8			

BUG Rating: B1-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	11.9
2.5°	12.8
5°	39.6
7.5°	65.5
10°	93.1
12.5°	116.2
15°	187.8
17.5°	274.1
20°	349.9
22.5°	414.9
25°	474.0
27.5°	520.0
30°	576.7
32.5°	643.0
35°	702.4
37.5°	752.7
40°	792.6
42.5°	815.9
45°	819.7
47.5°	806.2
50°	777.2
52.5°	735.3
55°	682.1
57.5°	622.8
60°	558.9
62.5°	495.4
65°	431.8
67.5°	369.4
70°	311.5
72.5°	255.1
75°	202.5
77.5°	154.9
80°	114.6
82.5°	80.9
85°	54.7
87.5°	34.5
90°	25.1
95°	17.9
105°	9.0
115°	6.3
125°	4.9
135°	3.7
145°	3.1
155°	1.4
165°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
175°	0.0
180°	0.0

(END OF REPORT)