

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: P265877

Luminaire Tested: **ARCH-AF16-30-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-AF16-30-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3348.8 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 32
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

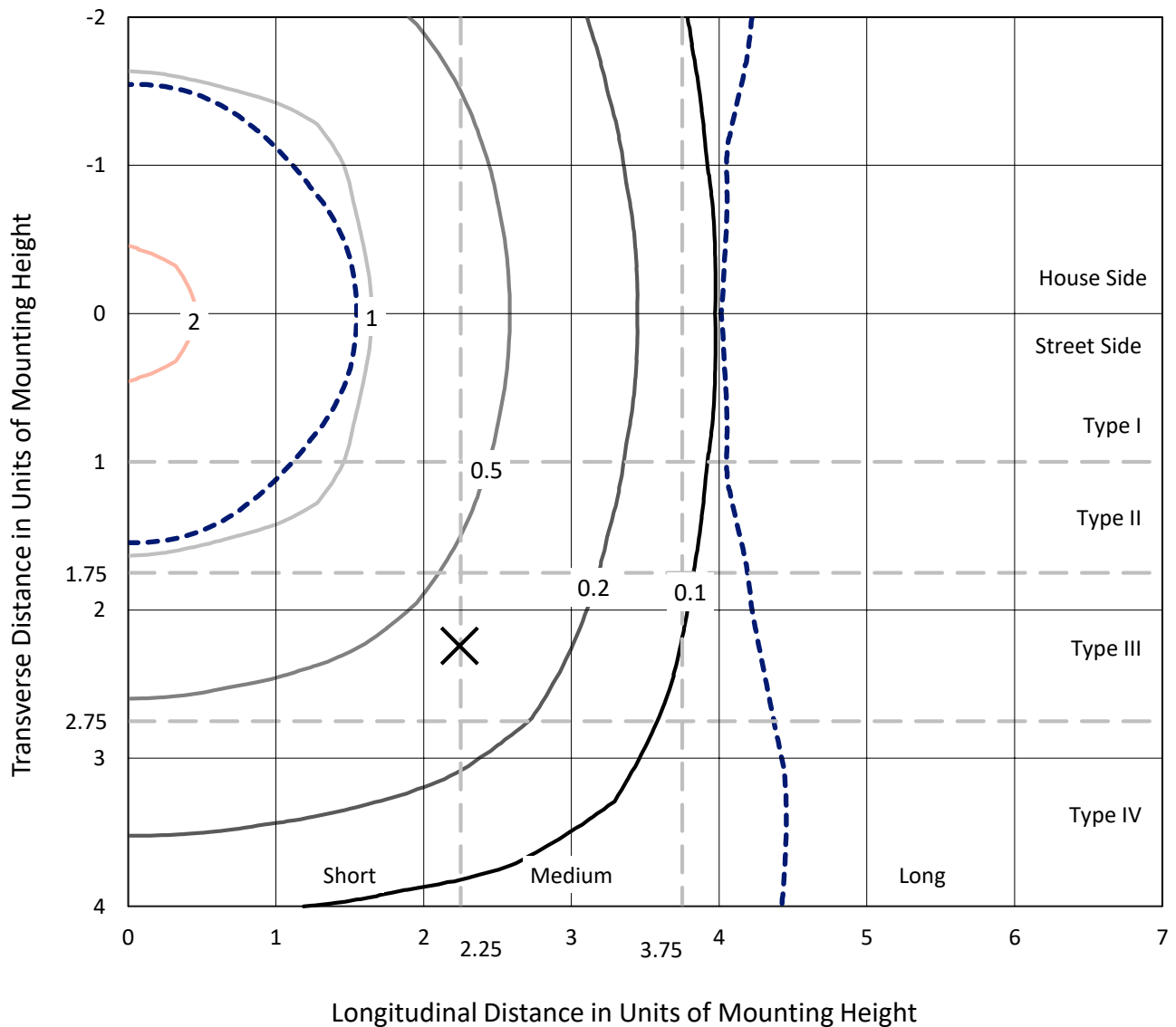


REPORT NUMBER: P265877

CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

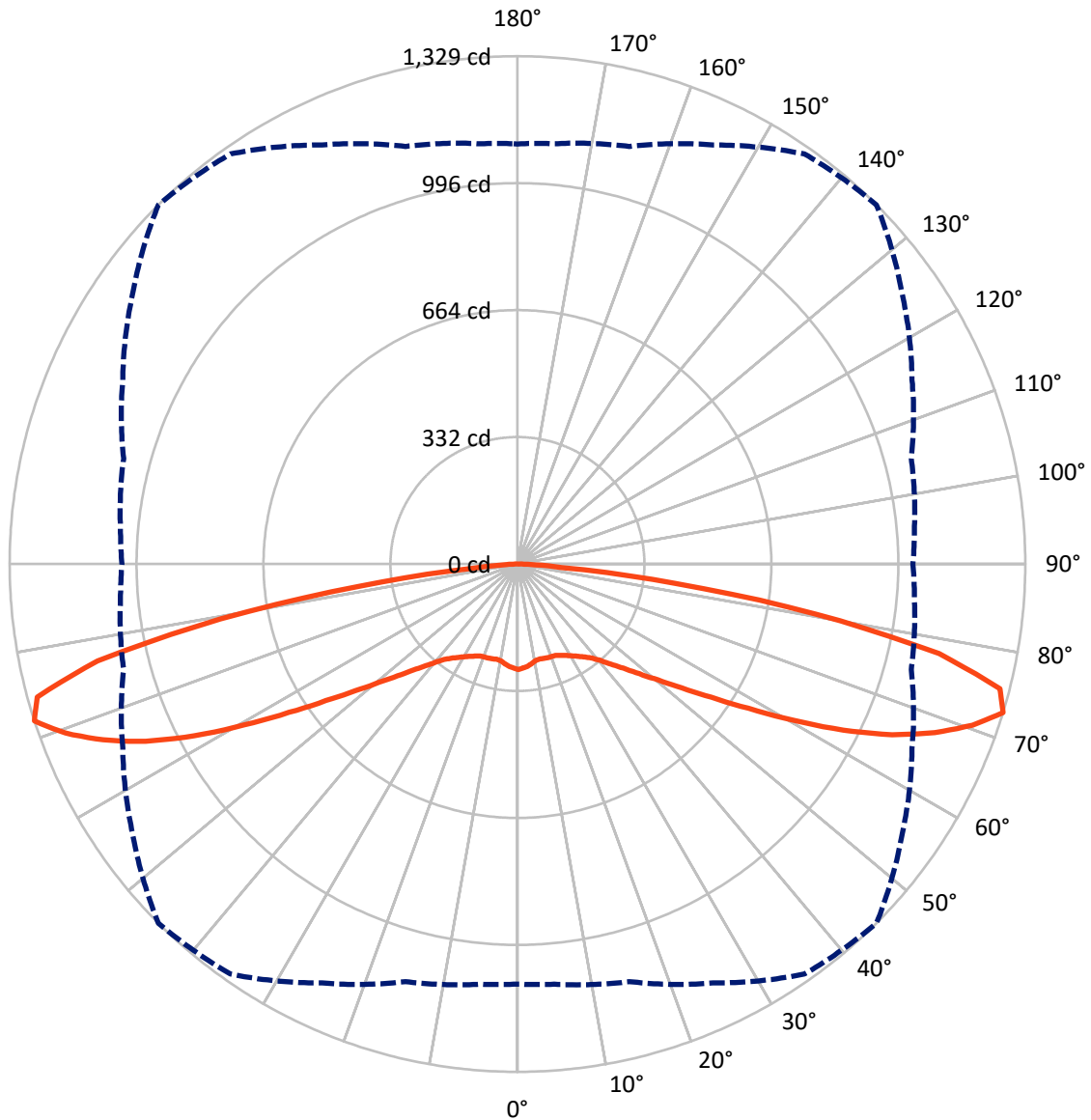


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265877

CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P265877

CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.4	0.0	1674.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1674.4	0.0	1674.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3348.8	0.0	3348.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.8
10°-20°	73.3	2.2
20°-30°	122.6	3.7
30°-40°	188.4	5.6
40°-50°	312.0	9.3
50°-60°	554.6	16.6
60°-70°	970.3	29.0
70°-80°	987.2	29.5
80°-90°	115.0	3.4
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°	3348.8	100.0
0°-180°	3348.8	100.0



REPORT NUMBER: P265877

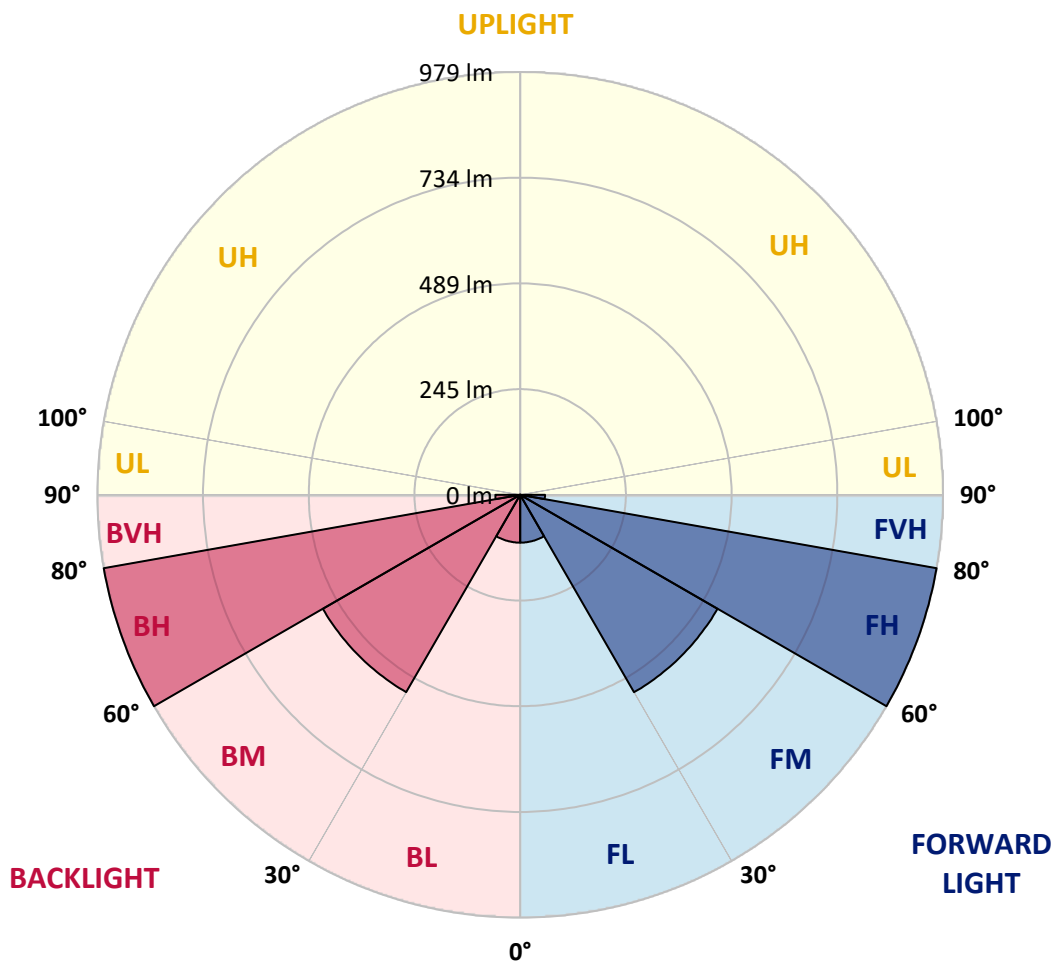
CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	110.6	3.3			
FM	(30°-60°)	527.5	15.8			
FH	(60°-80°)	978.8	29.2			G1/1800
FVH	(80°-90°)	57.5	1.7			G1/100
BL	(0°-30°)	110.6	3.3	B1/500		
BM	(30°-60°)	527.5	15.8	B1/1000		
BH	(60°-80°)	978.8	29.2	B2/1000		G1/1800
BVH	(80°-90°)	57.5	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P265877

CATALOG NUMBER: ARCH-AF16-30-D-U-5WQ-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0
2.5°	273.4	274.2	272.8	272.8	272.8	272.1	272.8	272.1	272.8	273.4	273.4
5°	270.8	270.8	269.6	269.6	269.6	269.0	269.6	269.6	270.3	270.8	270.8
7.5°	265.2	265.2	264.6	263.9	263.3	263.3	263.9	263.9	264.6	265.2	265.2
10°	261.9	261.3	260.1	258.2	257.5	256.8	258.2	259.4	261.3	263.3	262.7
12.5°	260.7	260.1	257.5	255.6	254.3	254.9	256.2	257.5	260.7	262.7	261.9
15°	261.9	260.7	257.5	254.3	254.9	256.2	257.5	257.5	261.3	263.3	263.3
17.5°	261.9	261.3	257.5	254.9	255.6	257.5	258.2	257.5	260.7	263.9	263.9
20°	262.7	262.7	257.5	255.6	256.2	258.2	258.8	258.2	260.7	264.6	264.6
22.5°	263.9	263.3	258.2	256.8	258.2	259.4	260.1	259.4	261.9	265.2	265.8
25°	266.4	265.2	260.7	260.1	262.7	264.6	264.6	263.3	264.6	267.8	267.8
27.5°	269.6	269.0	263.9	263.9	267.1	270.8	269.0	266.4	267.8	270.8	270.8
30°	275.4	274.7	269.6	269.6	274.2	278.6	274.2	270.8	272.8	276.0	276.7
32.5°	283.7	283.7	279.3	277.9	285.7	287.5	285.7	279.3	280.5	284.9	284.9
35°	297.7	296.4	291.9	291.3	299.0	298.3	297.7	291.9	293.2	298.3	298.3
37.5°	316.2	315.6	311.7	309.8	313.6	311.1	312.3	309.8	313.0	316.8	317.5
40°	339.7	339.1	336.0	333.5	334.7	330.8	332.2	333.5	336.5	339.1	339.7
42.5°	369.2	369.2	365.9	361.5	359.5	357.6	357.6	360.2	363.4	366.6	366.6
45°	405.5	405.5	401.6	397.1	391.4	388.2	389.4	392.0	395.9	399.7	401.0
47.5°	448.2	448.2	443.0	438.6	432.9	429.0	429.0	430.3	435.9	439.2	441.1
50°	496.0	494.1	488.9	484.5	481.3	476.2	476.8	476.2	481.3	485.8	487.1
52.5°	545.7	545.0	539.9	538.7	540.6	538.1	538.1	531.6	533.6	536.1	535.5
55°	607.6	605.5	601.1	603.8	611.3	615.2	613.9	603.8	597.9	599.2	598.6
57.5°	675.0	673.2	671.9	679.6	696.7	712.6	709.5	685.9	675.0	675.7	676.3
60°	743.9	743.9	747.7	766.9	803.9	829.9	820.4	780.8	761.8	757.9	756.6
62.5°	814.7	816.6	824.9	856.8	913.4	956.9	932.6	876.4	847.8	840.2	837.6
65°	896.9	898.8	910.9	950.4	1025.7	1077.2	1035.8	982.9	942.9	927.0	924.4
67.5°	1016.2	1017.4	1026.9	1065.2	1135.9	1177.4	1134.6	1087.5	1044.2	1025.7	1024.3
70°	1123.2	1124.5	1132.8	1183.1	1248.1	1262.7	1215.6	1155.7	1110.5	1095.8	1093.2
72.5°	1098.9	1103.5	1130.8	1209.3	1309.3	1328.5	1229.1	1139.1	1066.5	1042.3	1034.6
75°	921.8	928.8	972.1	1090.1	1249.5	1303.6	1150.0	984.9	876.4	829.9	817.8
77.5°	538.1	564.1	638.8	789.8	1017.4	1127.6	947.3	721.0	538.7	462.2	436.7
80°	147.2	161.2	215.5	363.4	638.1	789.8	604.3	330.8	178.6	133.8	124.3
82.5°	46.5	61.9	78.4	104.6	250.4	416.3	224.3	97.6	76.4	63.2	56.1
85°	24.9	26.8	43.9	51.1	75.2	116.7	69.4	51.1	46.0	33.7	31.9
87.5°	12.8	13.4	24.9	24.9	33.1	27.4	30.0	27.4	26.1	16.6	14.6
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)