

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: P265886

Luminaire Tested: **ARCH-AF16-40-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265886
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-AF16-40-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 42
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

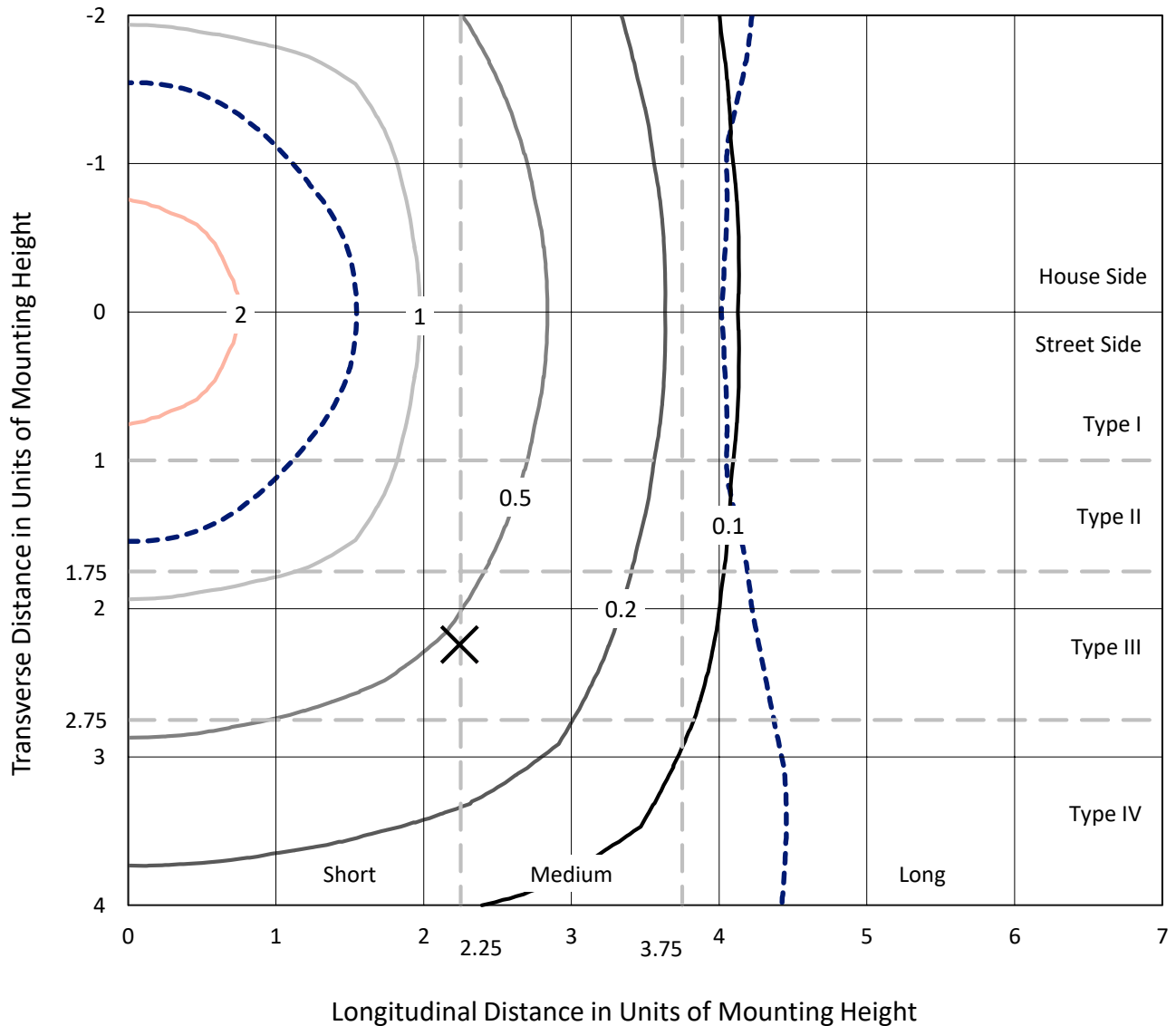


REPORT NUMBER: P265886

CATALOG NUMBER: ARCH-AF16-40-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

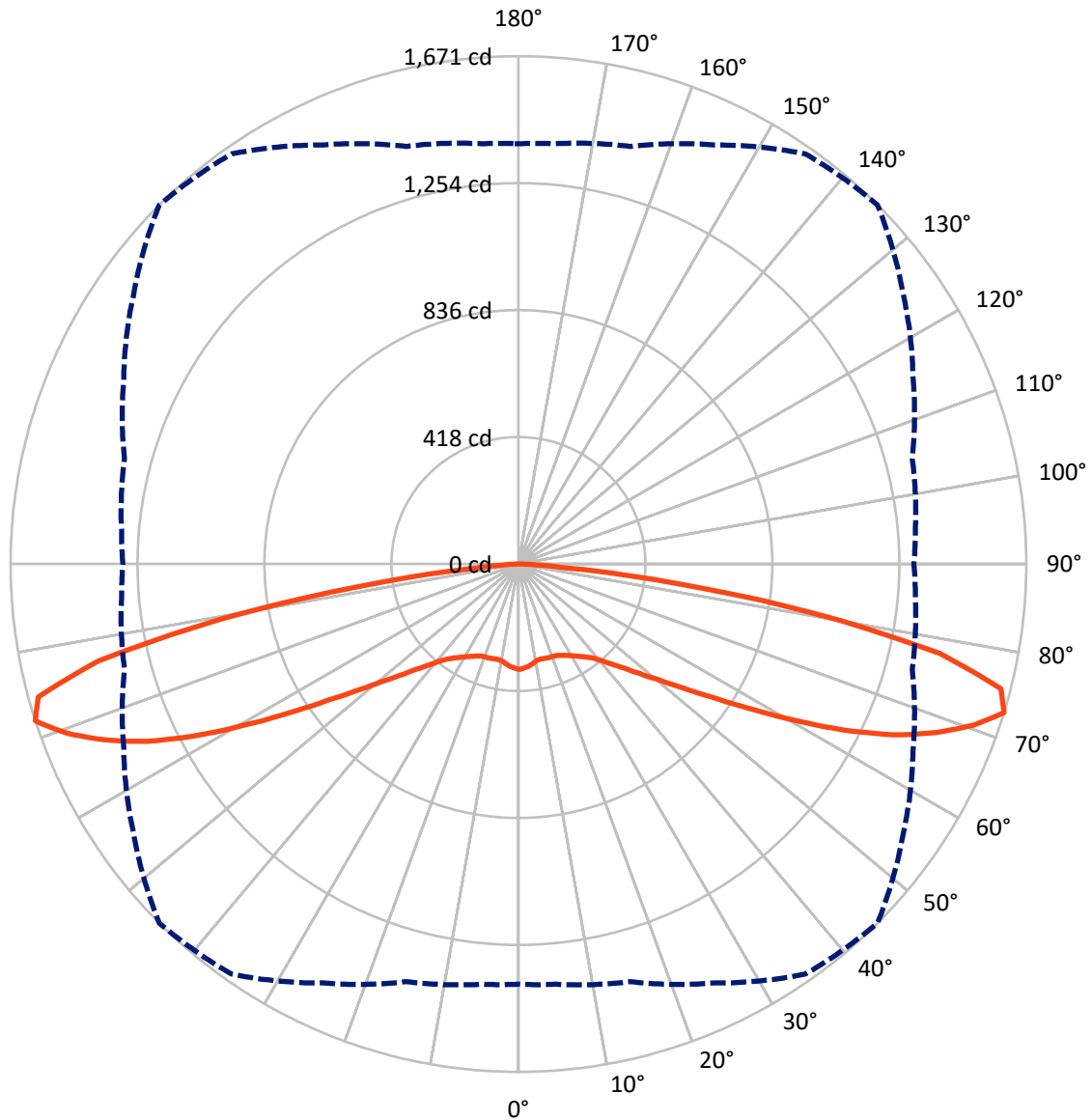


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265886

CATALOG NUMBER: ARCH-AF16-40-D-U-5WQ-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P265886

CATALOG NUMBER: ARCH-AF16-40-D-U-5WQ-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2106.7	0.0	2106.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2106.7	0.0	2106.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4213.5	0.0	4213.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	0.8
10°-20°	92.2	2.2
20°-30°	154.3	3.7
30°-40°	237.1	5.6
40°-50°	392.5	9.3
50°-60°	697.8	16.6
60°-70°	1220.8	29.0
70°-80°	1242.1	29.5
80°-90°	144.6	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°	4213.5	100.0
0°-180°	4213.5	100.0



REPORT NUMBER: P265886

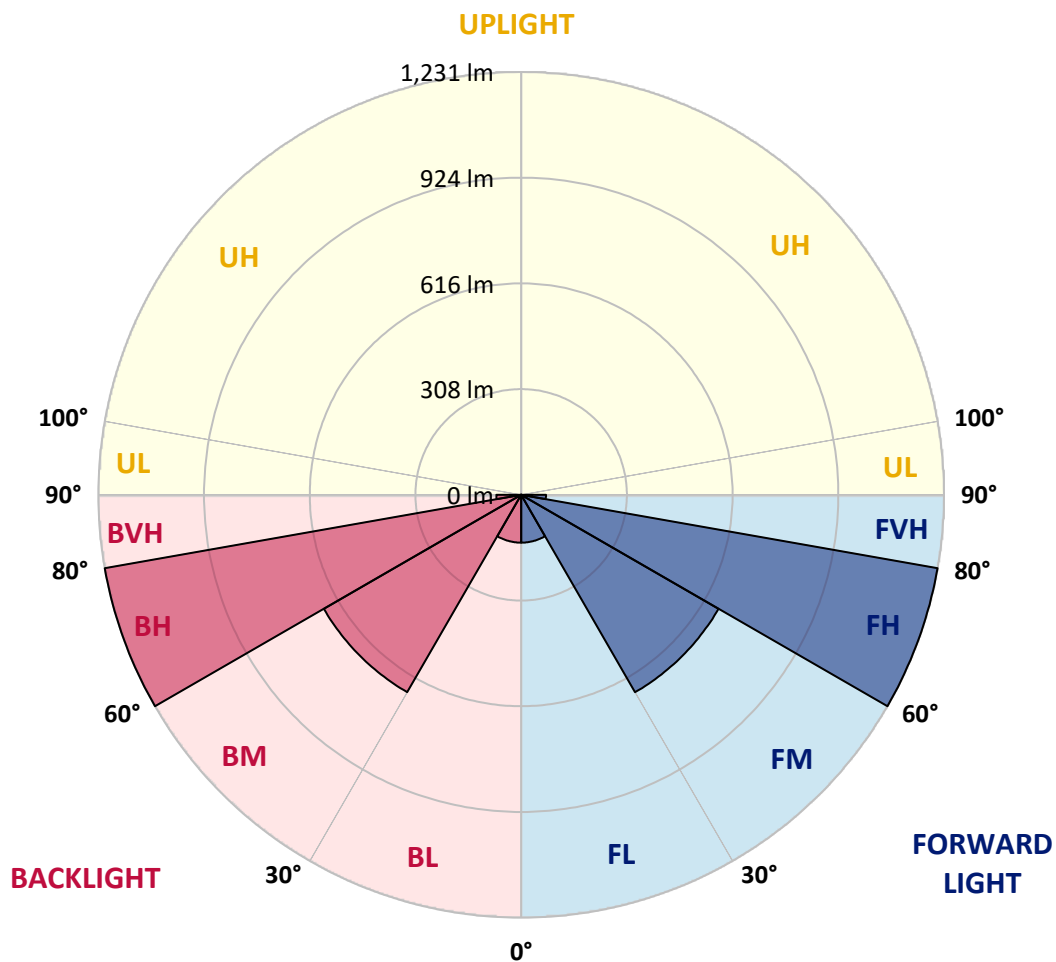
CATALOG NUMBER: ARCH-AF16-40-D-U-5WQ-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.2	3.3			
FM	(30°-60°)	663.7	15.8			
FH	(60°-80°)	1231.5	29.2			G1/1800
FVH	(80°-90°)	72.3	1.7			G1/100
BL	(0°-30°)	139.2	3.3	B1/500		
BM	(30°-60°)	663.7	15.8	B1/1000		
BH	(60°-80°)	1231.5	29.2	B3/2500		G1/1800
BVH	(80°-90°)	72.3	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P265886

CATALOG NUMBER: ARCH-AF16-40-D-U-5WQ-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	347.3	347.3	347.3	347.3	347.3	347.3	347.3	347.3	347.3	347.3	347.3
2.5°	344.1	344.9	343.3	343.3	343.3	342.4	343.3	342.4	343.3	344.1	344.1
5°	340.8	340.8	339.3	339.3	339.3	338.5	339.3	339.3	340.1	340.8	340.8
7.5°	333.7	333.7	332.8	332.1	331.3	331.3	332.1	332.1	332.8	333.7	333.7
10°	329.7	328.8	327.3	324.8	324.0	323.2	324.8	326.4	328.8	331.3	330.4
12.5°	328.1	327.3	324.0	321.7	320.1	320.9	322.4	324.0	328.1	330.4	329.7
15°	329.7	328.1	324.0	320.1	320.9	322.4	324.0	324.0	328.8	331.3	331.3
17.5°	329.7	328.8	324.0	320.9	321.7	324.0	324.8	324.0	328.1	332.1	332.1
20°	330.4	330.4	324.0	321.7	322.4	324.8	325.6	324.8	328.1	332.8	332.8
22.5°	332.1	331.3	324.8	323.2	324.8	326.4	327.3	326.4	329.7	333.7	334.4
25°	335.2	333.7	328.1	327.3	330.4	332.8	332.8	331.3	332.8	336.9	336.9
27.5°	339.3	338.5	332.1	332.1	336.1	340.8	338.5	335.2	336.9	340.8	340.8
30°	346.4	345.7	339.3	339.3	344.9	350.5	344.9	340.8	343.3	347.3	348.2
32.5°	356.8	356.8	351.2	349.7	359.3	361.7	359.3	351.2	352.9	358.6	358.6
35°	374.6	372.9	367.3	366.6	376.2	375.3	374.6	367.3	368.9	375.3	375.3
37.5°	397.8	397.1	392.2	389.9	394.6	391.4	393.0	389.9	393.7	398.6	399.4
40°	427.6	426.6	422.7	419.5	421.0	416.3	417.9	419.5	423.6	426.6	427.6
42.5°	464.5	464.5	460.4	454.7	452.3	450.0	450.0	453.1	457.1	461.2	461.2
45°	510.1	510.1	505.2	499.6	492.5	488.5	490.0	493.3	498.1	503.0	504.5
47.5°	563.9	563.9	557.4	551.7	544.6	539.8	539.8	541.4	548.7	552.5	555.1
50°	624.1	621.5	615.2	609.6	605.5	599.1	600.0	599.1	605.5	611.1	612.7
52.5°	686.6	685.8	679.4	677.7	680.1	677.0	677.0	668.9	671.4	674.5	673.6
55°	764.4	761.9	756.4	759.5	769.2	774.0	772.5	759.5	752.3	753.9	753.0
57.5°	849.3	847.0	845.3	854.9	876.7	896.7	892.6	863.0	849.3	850.2	851.0
60°	936.0	936.0	940.9	964.9	1011.4	1044.3	1032.2	982.6	958.4	953.6	952.1
62.5°	1025.1	1027.4	1037.8	1078.0	1149.3	1203.9	1173.4	1102.8	1066.7	1057.1	1053.9
65°	1128.5	1130.8	1146.1	1195.9	1290.5	1355.5	1303.4	1236.7	1186.2	1166.2	1162.9
67.5°	1278.5	1280.1	1292.1	1340.2	1429.3	1481.3	1427.6	1368.3	1313.9	1290.5	1288.9
70°	1413.3	1414.8	1425.3	1488.6	1570.4	1588.9	1529.5	1454.1	1397.1	1378.7	1375.6
72.5°	1382.8	1388.4	1422.8	1521.5	1647.4	1671.4	1546.3	1433.2	1341.9	1311.3	1301.7
75°	1159.8	1168.5	1223.1	1371.5	1572.0	1640.2	1446.9	1239.2	1102.8	1044.3	1029.1
77.5°	677.0	709.8	803.7	993.7	1280.1	1418.9	1191.8	907.1	677.7	581.6	549.5
80°	185.3	202.8	271.1	457.1	802.8	993.7	760.3	416.3	224.5	168.4	156.5
82.5°	58.6	77.9	98.6	131.5	315.2	523.7	282.3	122.7	96.3	79.4	70.5
85°	31.4	33.6	55.3	64.1	94.6	146.8	87.5	64.1	57.8	42.5	40.2
87.5°	16.0	16.9	31.4	31.4	41.7	34.5	37.6	34.5	32.9	20.8	18.4
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)