

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: P14206

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14206  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700  
Description: STREETWORKS POST TOP WITH A TYPE III PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE  
Light Source: [6] 5700K LEDS  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12334.7 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U5 - G4

Input Watts (W): 101.3  
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

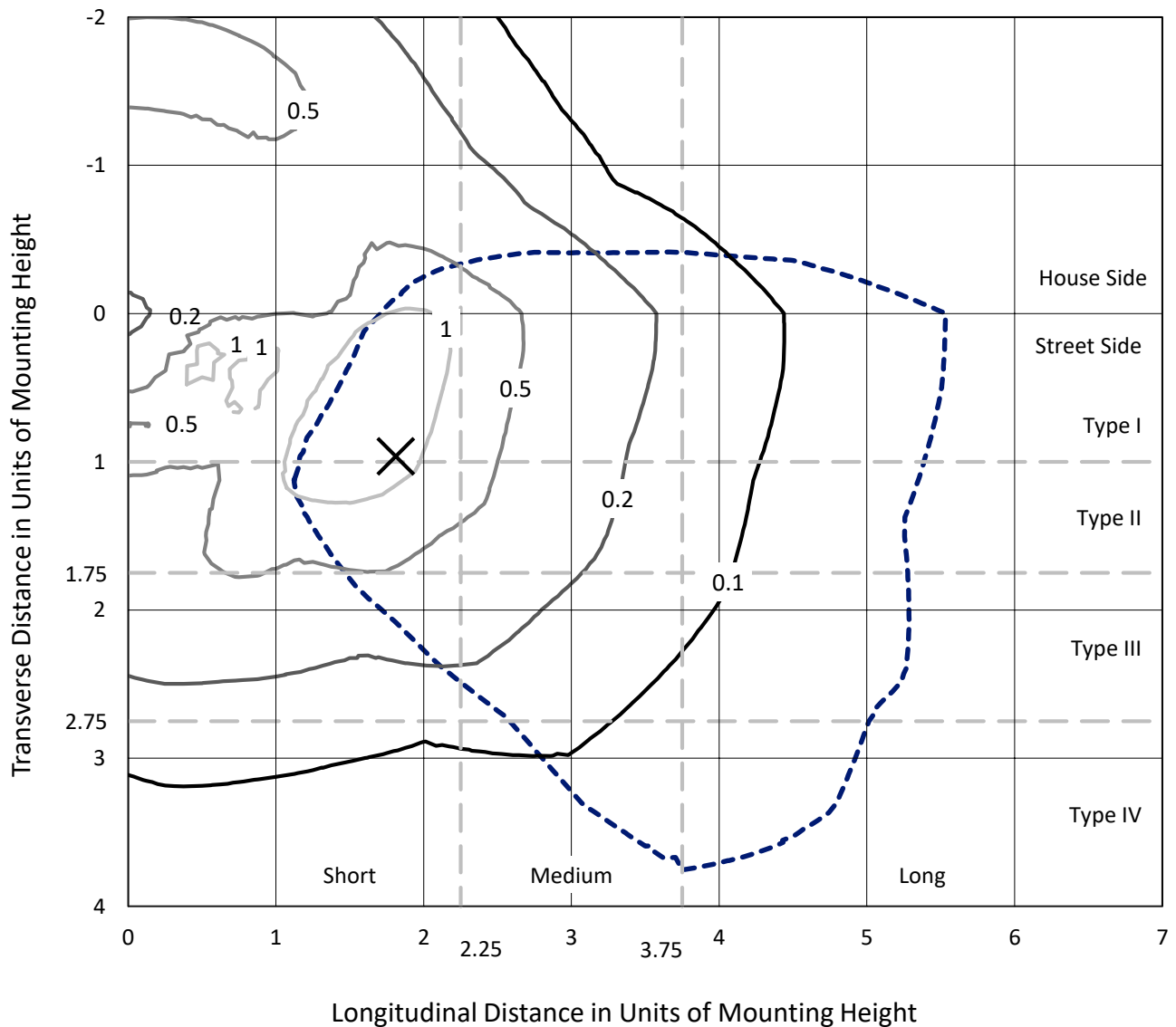


REPORT NUMBER: P14206

CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

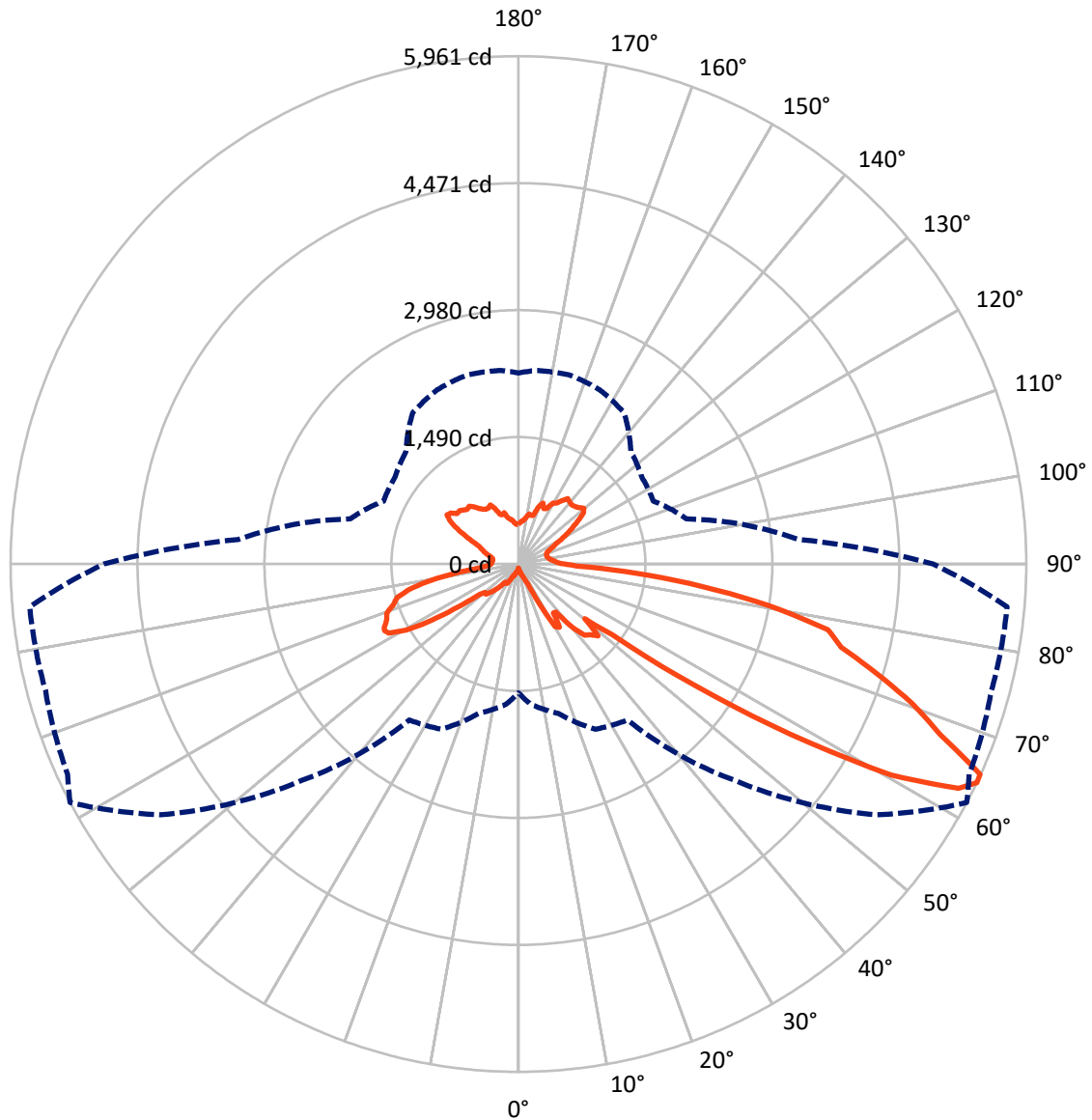


Based on 20 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P14206

CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700

### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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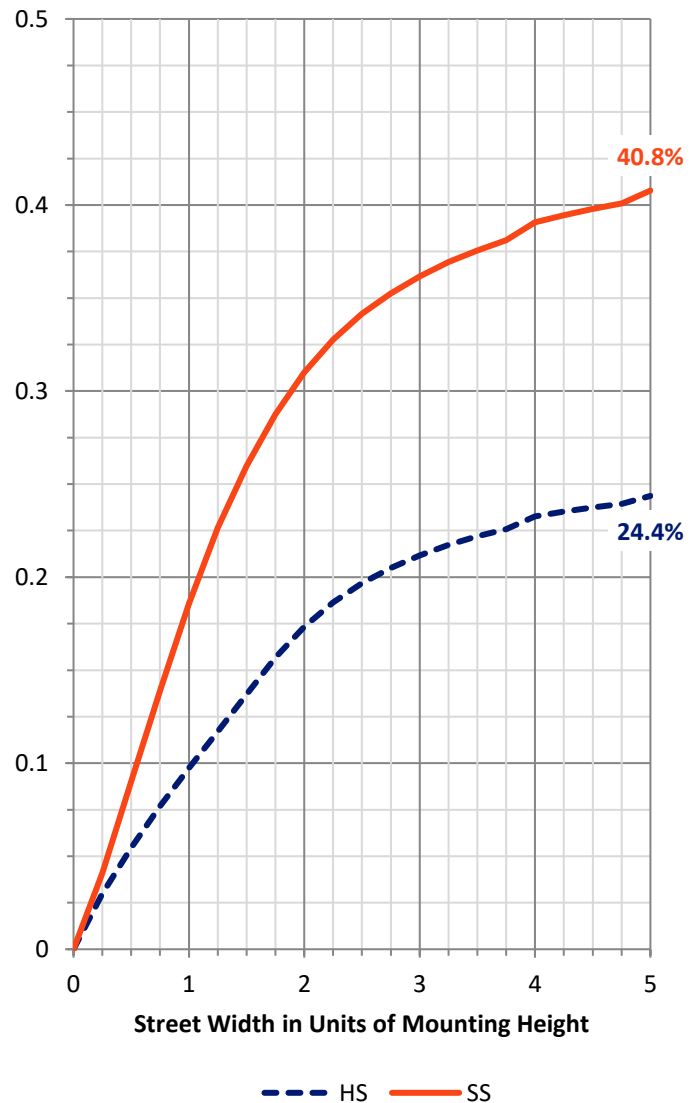
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3114.6	1984.1	5098.7
	% Fixture	25.3	16.1	41.3
<b>Street Side</b>	Lumens	5256.1	1979.8	7236.0
	% Fixture	42.6	16.1	58.7
<b>Total</b>	Lumens	8370.8	3963.9	12334.7
	% Fixture	67.9	32.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	34.2	0.3
20°-30°	111.8	0.9
30°-40°	269.1	2.2
40°-50°	532.7	4.3
50°-60°	1280.8	10.4
60°-70°	2802.1	22.7
70°-80°	2391.7	19.4
80°-90°	941.1	7.6
90°-100°	378.6	3.1
100°-110°	373.5	3.0
110°-120°	541.0	4.4
120°-130°	808.1	6.6
130°-140°	752.9	6.1
140°-150°	549.5	4.5
150°-160°	339.9	2.8
160°-170°	171.6	1.4
170°-180°	48.8	0.4
0°-90°	8370.8	67.9
0°-180°	12334.7	100.0



REPORT NUMBER: P14206

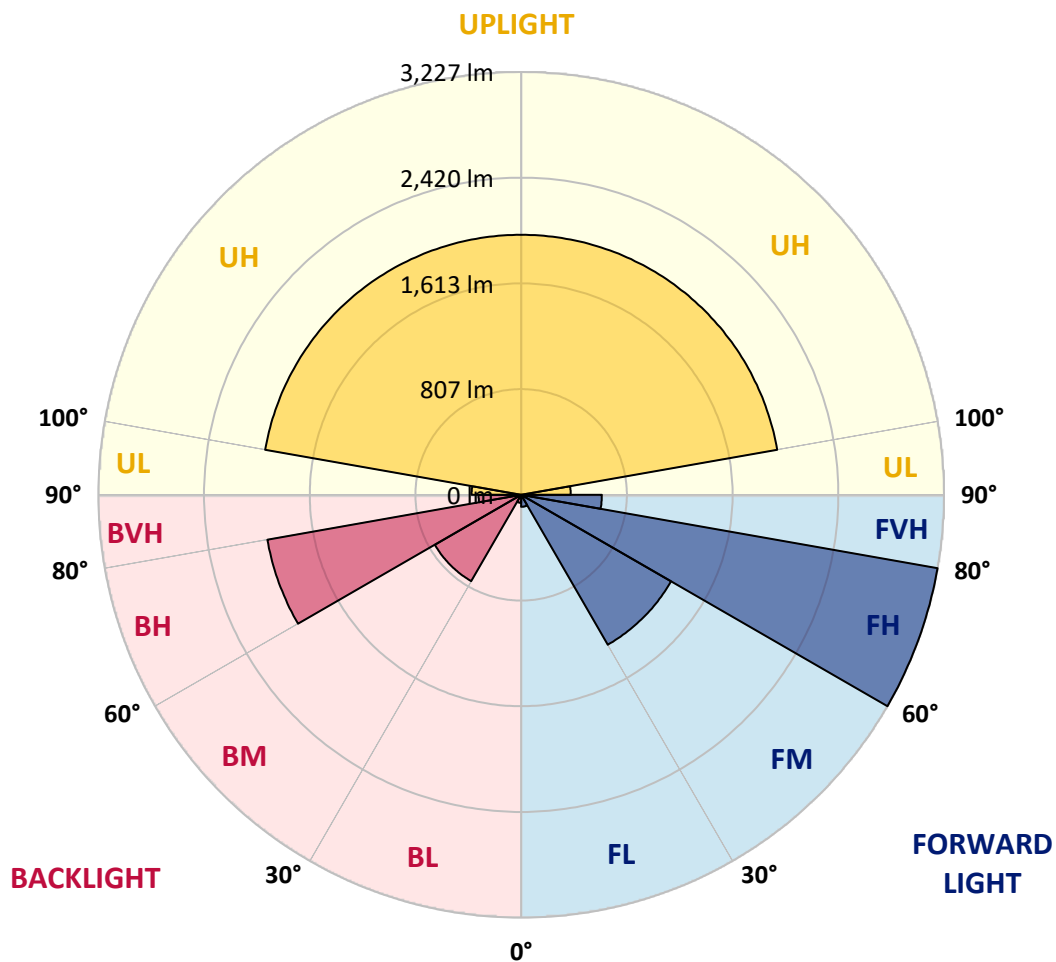
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.1	0.7			
FM	(30°-60°)	1321.3	10.7			
FH	(60°-80°)	3226.9	26.2			G2/5000
FVH	(80°-90°)	615.8	5.0			G4/750
BL	(0°-30°)	61.2	0.5	B0/110		
BM	(30°-60°)	761.2	6.2	B1/1000		
BH	(60°-80°)	1966.9	15.9	B3/2500		G3/2500
BVH	(80°-90°)	325.3	2.6			G3/500
UL	(90°-100°)	378.6	3.1		U3/500	
UH	(100°-180°)	1984.1	16.1		U5	

**BUG Rating: B3-U5-G4**

Type III Short





REPORT NUMBER: P14206

CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	58.6	57.1	61.9	58.6	57.1	55.6	57.1	57.1	55.6	57.1	58.6
5°	69.9	69.9	69.9	69.9	66.6	66.6	66.6	66.6	68.2	69.9	74.6
7.5°	79.3	77.7	79.3	80.9	79.3	80.9	79.3	80.9	77.7	76.2	79.3
10°	96.8	96.8	96.8	98.4	99.9	99.9	98.4	95.3	95.3	95.3	93.6
12.5°	106.3	104.7	109.4	114.2	112.7	109.4	107.9	104.7	106.3	104.7	103.1
15°	119.0	119.0	122.2	123.7	130.1	128.5	122.2	122.2	120.5	117.4	115.9
17.5°	128.5	130.1	133.3	141.1	150.7	152.4	144.4	139.6	136.5	131.7	125.3
20°	142.8	144.4	144.4	155.5	177.8	190.4	184.1	169.8	163.4	152.4	141.1
22.5°	166.5	165.0	165.0	180.8	207.8	237.9	219.0	195.2	191.9	173.0	165.0
25°	190.4	191.9	198.4	225.3	280.9	295.1	269.7	266.6	255.5	207.8	171.3
27.5°	303.0	303.0	295.1	352.3	461.7	528.4	566.4	542.7	496.7	325.2	225.3
30°	417.2	417.2	387.1	428.3	601.3	680.6	813.9	852.0	772.6	453.7	306.3
32.5°	418.8	426.8	410.9	476.0	620.4	691.8	796.5	886.8	831.4	518.8	379.2
35°	391.9	380.8	366.5	414.2	504.5	549.0	621.9	706.0	706.0	495.0	382.3
37.5°	377.5	384.0	399.8	506.1	647.3	606.1	620.4	715.5	775.8	571.2	410.9
40°	552.1	542.7	491.9	556.8	723.5	810.8	902.8	977.3	1018.6	785.4	471.3
42.5°	666.4	664.7	585.5	642.6	891.6	1001.2	1056.7	1142.3	1215.3	1067.8	575.9
45°	688.6	691.8	621.9	682.3	913.9	1131.2	1212.2	1183.6	1223.3	1259.7	707.7
47.5°	687.0	698.1	642.6	712.4	923.4	1156.6	1302.5	1259.7	1277.1	1323.2	833.0
50°	539.4	545.8	577.5	628.3	786.9	951.9	1070.9	1009.0	997.9	1096.3	918.7
52.5°	498.2	539.4	629.9	829.7	1009.0	1102.6	1448.6	1380.3	1407.3	1353.3	1077.3
55°	658.4	733.1	864.7	1109.1	1293.0	1883.2	2448.1	2519.5	2573.5	2268.8	1578.6
57.5°	972.6	1047.2	1170.9	1415.2	1642.1	2924.1	3925.1	3772.9	3558.7	3314.4	2741.6
60°	1342.2	1402.6	1523.1	1826.1	2083.2	3401.7	5089.7	5024.7	4567.7	4693.1	4307.6
62.5°	1578.6	1654.8	1770.6	2149.8	2321.1	3425.4	5308.6	5799.0	5495.9	5607.0	5494.4
64°	1510.5	1651.6	1815.0	2138.7	2233.8	3590.4	5131.0	5960.7	5838.7	5746.6	5757.7
65°	1546.9	1646.8	1789.6	2108.5	2249.8	3663.5	5086.5	5954.4	5797.4	5678.3	5724.3
67.5°	1475.5	1594.5	1716.7	1997.4	2183.2	3787.2	4472.6	5332.5	5219.8	5029.4	5162.7
70°	1400.9	1518.3	1608.8	1815.0	2094.2	3566.7	4147.4	4902.6	4766.1	4463.0	4604.2
72.5°	1396.2	1521.5	1597.7	1757.9	2032.4	3461.9	3891.9	4396.4	4366.2	4018.8	4228.2
75°	1301.0	1399.3	1496.1	1613.6	1918.2	3203.3	3496.8	3914.0	3971.2	3755.4	4041.0
77.5°	1286.7	1381.9	1474.0	1624.7	1876.9	3265.2	3538.0	3715.8	3804.6	3592.1	3774.4
80°	1129.7	1215.3	1312.1	1512.0	1672.2	2867.0	3055.7	2992.3	3054.2	2843.1	2884.4
82.5°	828.2	898.0	993.2	1164.5	1240.7	2118.1	2289.4	2183.2	2157.8	1973.7	1867.4
85°	522.0	577.5	639.3	813.9	825.0	1285.1	1440.6	1380.3	1327.9	1124.9	945.6
87.5°	328.4	349.1	393.5	485.4	485.4	669.5	696.4	683.8	672.7	602.9	604.5
90°	280.9	292.0	318.9	363.4	366.5	483.9	498.2	503.0	523.6	503.0	529.9
92.5°	284.0	292.0	310.9	344.3	345.8	433.1	442.6	444.2	461.7	447.4	479.1
95°	280.9	288.7	310.9	338.0	336.3	395.1	401.4	412.5	425.2	399.8	428.3
97.5°	279.2	285.6	301.5	325.2	325.2	374.5	372.9	379.2	393.5	369.7	398.2
100°	298.3	299.8	320.4	342.7	333.2	371.2	360.1	364.9	369.7	356.9	380.8
102.5°	307.8	306.3	325.2	353.8	339.5	356.9	342.7	350.6	358.6	342.7	361.7
105°	309.4	309.4	331.5	364.9	350.6	350.6	341.1	345.8	350.6	344.3	371.2
107.5°	323.7	325.2	345.8	379.2	364.9	355.4	339.5	345.8	347.5	350.6	395.1



REPORT NUMBER: P14206

CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
110°	344.3	344.3	366.5	401.4	391.9	374.5	349.1	350.6	353.8	368.1	422.0
112.5°	364.9	363.4	399.8	442.6	434.8	404.6	374.5	374.5	380.8	399.8	457.0
115°	399.8	395.1	431.6	504.5	504.5	453.7	420.5	425.2	436.3	441.1	507.7
117.5°	526.7	499.7	533.1	618.7	614.0	560.1	504.5	493.4	498.2	523.6	617.2
120°	598.1	572.7	629.9	698.1	699.7	669.5	617.2	606.1	606.1	642.6	728.3
122.5°	609.2	618.7	696.4	764.8	793.3	758.3	731.4	721.8	733.1	794.9	859.9
125°	701.2	699.7	767.9	886.8	909.1	880.5	844.0	840.9	861.6	926.5	956.7
127.5°	853.6	847.3	888.5	1004.3	1020.1	991.6	972.6	966.2	986.9	1044.0	1072.6
130°	991.6	985.3	1017.0	1063.0	1077.3	1053.5	1036.1	1009.0	1010.7	1077.3	1131.2
132.5°	1036.1	1040.7	1063.0	1085.2	1088.4	1058.3	996.4	971.0	974.1	1002.7	1059.8
135°	988.4	991.6	1017.0	1061.4	1082.0	1026.6	955.1	945.6	953.5	969.5	1024.9
137.5°	929.8	940.8	983.6	1020.1	1047.2	1005.9	959.9	934.5	948.8	991.6	1005.9
140°	955.1	961.5	996.4	1010.7	1029.7	997.9	956.7	944.1	950.4	959.9	956.7
142.5°	947.2	959.9	967.8	971.0	972.6	950.4	944.1	961.5	972.6	972.6	978.9
145°	978.9	966.2	956.7	942.4	958.2	942.4	913.9	901.1	904.4	925.0	931.3
147.5°	902.8	899.6	913.9	902.8	898.0	890.1	874.2	842.5	847.3	872.7	866.2
150°	807.6	806.0	793.3	790.2	767.9	788.5	804.3	821.9	826.6	815.6	813.9
152.5°	744.1	747.2	769.5	786.9	809.1	802.8	774.3	728.3	712.4	728.3	739.4
155°	726.6	729.8	726.6	766.3	767.9	739.4	715.5	715.5	707.7	723.5	702.9
157.5°	717.1	718.7	699.7	715.5	715.5	725.1	766.3	771.1	760.0	723.5	720.3
160°	729.8	731.4	715.5	691.8	688.6	690.1	706.0	712.4	709.2	668.0	677.5
162.5°	660.0	656.9	637.8	641.0	645.8	620.4	596.5	598.1	596.5	572.7	582.2
165°	542.7	544.2	567.9	587.0	602.9	601.3	591.8	588.6	596.5	567.9	561.6
167.5°	596.5	595.0	593.3	593.3	601.3	606.1	601.3	602.9	604.5	607.6	602.9
170°	575.9	577.5	580.7	569.6	561.6	556.8	552.1	555.3	552.1	555.3	555.3
172.5°	517.3	517.3	522.0	526.7	529.9	525.1	520.4	518.8	514.1	510.8	507.7
175°	506.1	504.5	506.1	507.7	507.7	504.5	506.1	506.1	507.7	503.0	499.7
177.5°	496.7	496.7	493.4	493.4	491.9	487.1	485.4	482.3	480.7	480.7	476.0
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	60.3	57.1	61.9	61.9	61.9	58.6	55.6	60.3	58.6	60.3	57.1
5°	74.6	71.4	71.4	71.4	69.9	74.6	69.9	69.9	69.9	73.0	74.6
7.5°	77.7	79.3	80.9	80.9	82.5	79.3	79.3	77.7	77.7	77.7	79.3
10°	93.6	95.3	93.6	92.0	93.6	93.6	93.6	92.0	92.0	92.0	90.5
12.5°	103.1	101.6	99.9	99.9	98.4	96.8	98.4	99.9	99.9	106.3	103.1
15°	117.4	114.2	111.1	107.9	109.4	111.1	111.1	109.4	114.2	112.7	114.2
17.5°	123.7	122.2	122.2	120.5	120.5	119.0	119.0	120.5	122.2	122.2	123.7
20°	136.5	136.5	133.3	131.7	133.3	130.1	130.1	131.7	131.7	133.3	133.3
22.5°	150.7	144.4	144.4	145.9	144.4	144.4	141.1	142.8	142.8	145.9	145.9
25°	168.2	161.8	157.1	158.7	165.0	160.2	163.4	161.8	165.0	163.4	160.2
27.5°	207.8	193.6	193.6	203.0	214.2	206.2	199.9	199.9	209.5	217.3	219.0
30°	253.8	241.2	236.4	249.0	263.3	252.3	242.7	245.9	260.2	271.3	274.4
32.5°	304.6	287.2	272.9	268.1	272.9	268.1	269.7	280.9	290.3	293.5	298.3
35°	323.7	306.3	279.2	260.2	250.7	249.0	269.7	288.7	290.3	279.2	282.4
37.5°	364.9	336.3	298.3	280.9	290.3	301.5	325.2	344.3	334.8	320.4	322.1
40°	396.6	372.9	345.8	342.7	353.8	371.2	382.3	385.5	399.8	412.5	422.0
42.5°	469.6	450.6	409.4	406.2	422.0	436.3	423.6	434.8	463.3	482.3	495.0
45°	564.8	533.1	482.3	452.2	479.1	501.4	491.9	507.7	520.4	529.9	542.7
47.5°	660.0	607.6	533.1	514.1	536.2	537.9	517.3	525.1	542.7	558.5	574.4
50°	728.3	669.5	560.1	512.5	510.8	553.8	580.7	602.9	563.3	525.1	523.6
52.5°	825.0	733.1	607.6	572.7	596.5	679.0	750.5	772.6	736.1	699.7	694.9
55°	1120.1	904.4	777.4	823.4	921.8	1004.3	1055.0	1070.9	1113.8	1140.8	1143.9
57.5°	1856.3	1356.5	1126.5	1191.6	1251.7	1251.7	1318.4	1420.0	1542.2	1566.0	1569.1
60°	3155.7	2206.9	1588.2	1526.3	1531.1	1520.0	1775.3	1975.3	2057.8	1908.6	1870.6
62.5°	4385.3	2998.6	1927.7	1713.5	1751.6	1815.0	2186.3	2364.0	2352.9	2216.4	2176.7
64°	4864.4	3301.6	2043.5	1746.9	1770.6	1865.8	2164.1	2256.1	2298.9	2279.9	2240.3
65°	4934.3	3382.6	2072.1	1742.1	1754.7	1850.0	2097.5	2180.0	2245.1	2254.5	2226.0
67.5°	4820.0	3485.7	2121.3	1689.8	1651.6	1742.1	1876.9	1997.4	2105.3	2186.3	2184.7
70°	4523.4	3468.3	2122.9	1673.9	1596.0	1657.9	1719.8	1883.2	2013.4	2067.3	2091.1
72.5°	4210.8	3316.0	1891.2	1566.0	1486.6	1553.2	1618.3	1794.4	1908.6	1940.3	1978.5
75°	4045.8	3185.9	1662.7	1492.9	1446.9	1508.8	1508.8	1653.3	1786.4	1823.0	1875.4
77.5°	3739.5	2901.8	1440.6	1312.1	1281.9	1315.3	1263.0	1367.6	1480.3	1507.2	1548.5
80°	2889.2	2246.6	1145.5	1056.7	1009.0	1007.5	928.2	1001.2	1085.2	1128.0	1155.1
82.5°	1869.0	1453.3	772.6	720.3	680.6	663.2	602.9	626.7	663.2	685.4	693.4
85°	937.6	772.6	482.3	458.5	428.3	420.5	399.8	420.5	428.3	423.6	425.2
87.5°	607.6	522.0	372.9	361.7	328.4	325.2	322.1	347.5	358.6	356.9	364.9
90°	512.5	444.2	341.1	334.8	310.9	307.8	312.6	338.0	349.1	345.8	347.5
92.5°	458.5	415.7	330.0	322.1	295.1	298.3	299.8	320.4	328.4	326.9	317.4
95°	425.2	388.8	331.5	325.2	290.3	296.7	301.5	310.9	306.3	299.8	293.5
97.5°	391.9	356.9	310.9	307.8	296.7	296.7	310.9	298.3	284.0	271.3	261.8
100°	376.0	347.5	310.9	307.8	303.0	303.0	323.7	312.6	287.2	271.3	269.7
102.5°	364.9	349.1	325.2	314.1	306.3	309.4	333.2	345.8	310.9	295.1	287.2
105°	376.0	374.5	353.8	338.0	323.7	334.8	361.7	363.4	344.3	315.7	306.3
107.5°	409.4	414.2	395.1	384.0	371.2	382.3	402.9	385.5	356.9	353.8	349.1



REPORT NUMBER: P14206

CATALOG NUMBER: ACN/CLB/ARC-080-LED-E-U-33-3-1-X-BK-5700

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	447.4	452.2	439.4	426.8	423.6	437.9	472.8	442.6	398.2	407.7	414.2
112.5°	487.1	498.2	483.9	460.0	460.0	491.9	556.8	571.2	510.8	482.3	480.7
115°	545.8	558.5	541.0	506.1	517.3	567.9	639.3	677.5	626.7	588.6	599.8
117.5°	658.4	679.0	655.2	639.3	647.3	702.9	796.5	825.0	785.4	756.8	772.6
120°	767.9	798.0	788.5	794.9	810.8	874.2	956.7	928.2	885.3	882.2	891.6
122.5°	896.4	901.1	894.8	926.5	967.8	1005.9	1013.8	953.5	907.6	867.9	866.2
125°	985.3	999.5	1012.3	1023.3	1001.2	994.7	999.5	966.2	917.0	828.2	813.9
127.5°	1088.4	1091.5	1067.8	1013.8	945.6	958.2	990.1	910.7	869.4	863.1	867.9
130°	1136.0	1112.1	1028.1	937.6	915.4	966.2	980.5	912.2	894.8	867.9	874.2
132.5°	1056.7	1053.5	983.6	942.4	912.2	947.2	982.1	950.4	893.3	796.5	772.6
135°	1042.4	1036.1	982.1	918.7	871.0	877.4	904.4	929.8	909.1	834.5	813.9
137.5°	1010.7	1004.3	948.8	872.7	886.8	898.0	913.9	925.0	936.1	932.8	921.8
140°	955.1	934.5	901.1	886.8	899.6	940.8	931.3	917.0	926.5	918.7	910.7
142.5°	966.2	947.2	896.4	855.1	842.5	869.4	864.7	867.9	844.0	802.8	798.0
145°	921.8	907.6	871.0	817.1	761.5	780.6	798.0	793.3	780.6	794.9	794.9
147.5°	844.0	826.6	793.3	777.4	742.5	782.2	799.7	783.7	774.3	745.7	737.7
150°	810.8	798.0	760.0	750.5	740.9	744.1	737.7	760.0	755.2	737.7	737.7
152.5°	747.2	750.5	780.6	755.2	725.1	723.5	737.7	752.0	769.5	769.5	771.1
155°	704.4	714.0	744.1	780.6	740.9	769.5	728.3	717.1	740.9	748.9	747.2
157.5°	698.1	690.1	693.4	714.0	696.4	698.1	688.6	690.1	683.8	666.4	660.0
160°	669.5	658.4	648.9	629.9	612.4	604.5	604.5	621.9	647.3	664.7	672.7
162.5°	596.5	602.9	621.9	604.5	612.4	642.6	623.5	633.0	645.8	644.1	647.3
165°	566.4	579.1	595.0	623.5	631.5	617.2	610.9	593.3	572.7	572.7	571.2
167.5°	596.5	585.5	567.9	558.5	558.5	567.9	571.2	556.8	545.8	544.2	542.7
170°	552.1	547.3	539.4	533.1	539.4	539.4	545.8	545.8	552.1	555.3	555.3
172.5°	509.3	510.8	515.6	522.0	522.0	517.3	515.6	515.6	509.3	507.7	509.3
175°	496.7	495.0	490.2	485.4	480.7	474.4	469.6	463.3	458.5	458.5	457.0
177.5°	474.4	471.3	469.6	466.5	464.8	460.0	458.5	453.7	452.2	449.0	447.4
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

(END OF REPORT)