

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: LUMIERE

Report Number: P246952

Luminaire Tested: **203-FL-8LED3010-12-BK-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246952
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-13)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED3010-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC, FLUSH HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 90 CRI LED
SM16-07-10D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

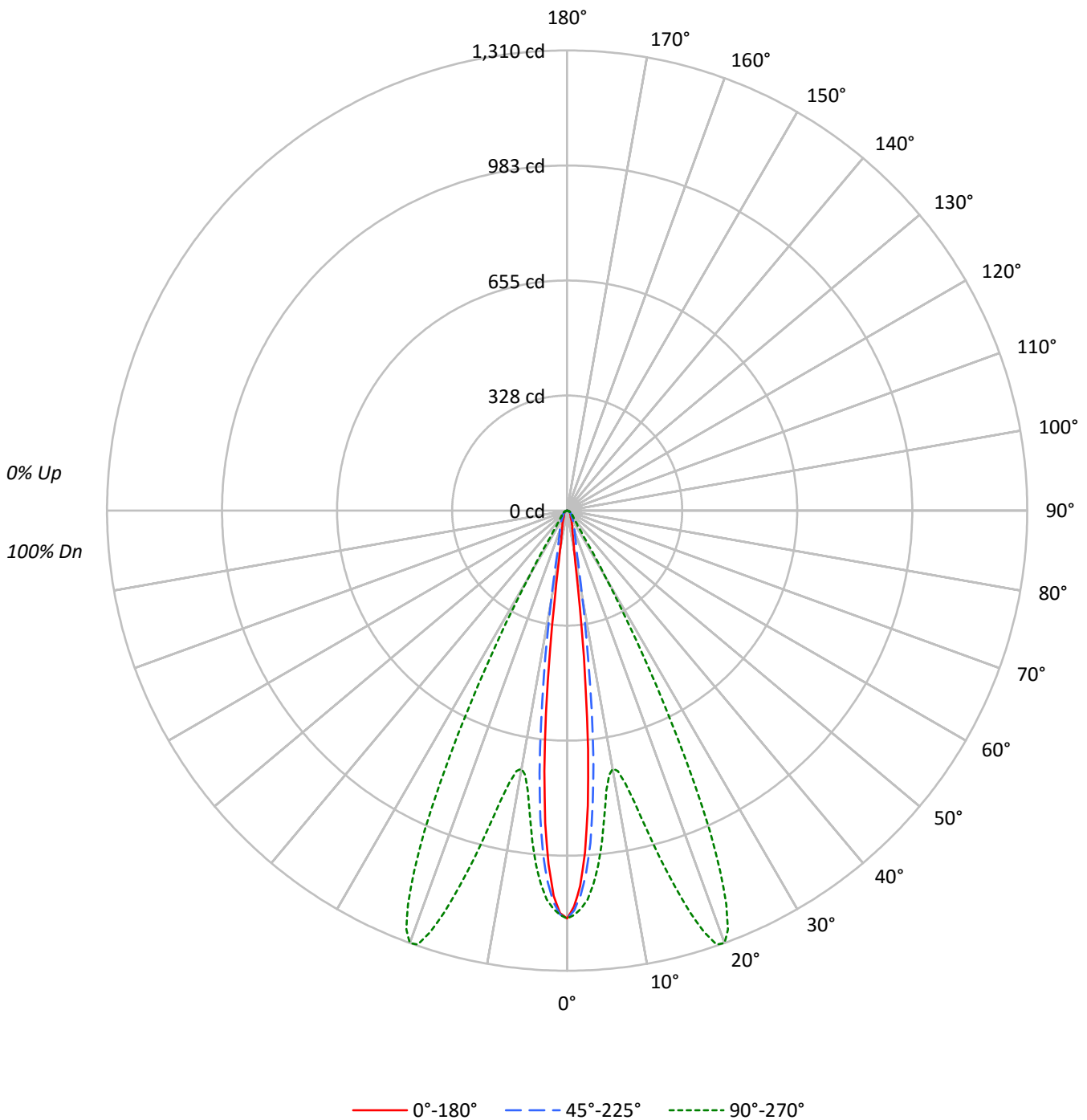
Lumens per Lamp: N/A
Luminaire Lumens: 274.8 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.95 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT



TEST NUMBER: P246952
CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

Luminous Intensity Polar Plot





TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100		
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94	94	94	94	94	94	94		
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88	88	88	88	88	88	88		
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82	82		
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78	78	78	78	78	78		
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74	74	74	74	74	74	74		
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70	70	70	70	70	70	70		
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	74	71	68	67	67	67	67	67	67	67		
8	84	75	70	66	82	74	69	66	73	69	66	72	68	65	72	68	65	64	64	64	64	64	64	64		
9	81	72	67	63	79	71	66	63	71	66	63	70	66	63	69	65	62	61	61	61	61	61	61	61		
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59	59	59	59	59	59	59		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	572962	572962	572962
5°	338067	502693	368823
10°	56412	373939	59067
15°	29881	523911	28502
20°	20949	687912	20004
25°	14971	467136	13501
30°	11622	120208	11109
35°	10119	31501	10119
40°	9725	20546	9146
45°	9280	16048	8652
50°	8827	14277	8136
55°	8430	12989	7656
60°	7006	11348	6118
65°	6187	9339	6187
70°	5049	7645	5049
75°	3431	6672	3431
80°	2557	5114	2557
85°	0	0	5095



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	23.0
10°-20°	83.3	30.3
20°-30°	75.6	27.5
30°-40°	19.4	7.1
40°-50°	12.9	4.7
50°-60°	10.2	3.7
60°-70°	6.6	2.4
70°-80°	2.9	1.1
80°-90°	0.6	0.2
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°-30°	222.1	80.8
0°-40°	241.5	87.9
0°-60°	264.6	96.3
0°-90°	274.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	274.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1161	1161	1161	1161	1161	
5°	683	834	1015	878	745	43
15°	58	95	1026	94	56	17
25°	28	44	858	43	25	13
35°	17	24	52	23	17	11
45°	13	16	23	16	12	10
55°	10	12	15	12	9	8
65°	5	7	8	7	5	5
75°	2	3	4	3	2	2
85°	0	1	0	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
1°	1127.6	1134.7	1132.1	1134.7	1132.9	1137.4	1134.7	1134.7	1137.4	1139.1	1138.3
2°	1069.1	1082.4	1077.1	1083.3	1078.9	1086.8	1084.2	1086.0	1091.3	1094.8	1095.7
3°	974.3	997.3	989.3	999.1	994.6	1006.2	1003.5	1009.7	1021.2	1032.8	1034.5
4°	842.2	854.6	863.4	877.6	872.3	889.2	889.2	899.8	920.2	939.7	948.5
5°	682.6	697.7	707.4	726.0	724.3	744.7	747.3	764.2	793.4	821.8	834.2
6°	503.5	521.3	532.8	555.8	556.7	578.9	586.9	607.2	643.6	679.9	716.3
7°	338.6	355.5	364.3	384.7	388.3	409.6	419.3	442.4	482.3	508.0	570.9
8°	218.1	231.4	238.5	252.7	258.9	273.9	282.8	303.2	339.5	371.4	434.4
9°	148.0	155.1	159.6	168.4	174.6	183.5	190.6	205.7	236.7	266.8	325.3
10°	112.6	116.1	118.8	125.0	128.5	133.9	139.2	149.8	170.2	195.0	243.8
11°	97.5	95.7	97.5	101.9	104.6	108.2	110.8	117.9	132.1	149.8	186.2
12°	83.3	82.4	83.3	86.9	89.5	91.3	93.1	100.2	109.0	122.3	148.0
13°	72.7	72.7	73.6	76.2	78.0	80.7	81.6	86.9	94.9	103.7	122.3
14°	63.8	63.8	65.6	68.3	70.0	71.8	73.6	78.0	84.2	92.2	105.5
15°	58.5	57.6	59.4	61.2	62.9	64.7	66.5	70.0	75.4	82.4	94.9
16°	52.3	52.3	54.1	55.8	57.6	59.4	61.2	63.8	69.1	75.4	86.0
17°	48.8	48.8	49.6	51.4	53.2	55.0	55.8	58.5	62.9	70.0	78.0
18°	45.2	45.2	46.1	47.9	49.6	50.5	52.3	55.0	58.5	64.7	71.8
19°	42.6	42.6	43.4	45.2	46.1	47.9	48.8	51.4	55.0	59.4	67.4
20°	39.9	39.9	40.8	42.6	44.3	45.2	46.1	48.8	51.4	55.8	62.1
21°	37.2	37.2	38.1	39.9	41.7	42.6	43.4	46.1	48.8	52.3	57.6
22°	34.6	34.6	35.5	37.2	39.0	39.9	40.8	43.4	46.1	48.8	54.1
23°	31.9	31.9	32.8	33.7	35.5	37.2	38.1	40.8	43.4	46.1	50.5
24°	29.3	29.3	30.1	31.0	32.8	34.6	35.5	38.1	40.8	43.4	47.0
25°	27.5	26.6	27.5	28.4	30.1	31.9	32.8	36.3	39.0	41.7	44.3
26°	24.8	24.8	25.7	26.6	28.4	29.3	30.1	33.7	36.3	39.0	42.6
27°	23.0	23.0	23.9	24.8	25.7	26.6	28.4	31.0	33.7	37.2	39.9
28°	22.2	22.2	22.2	23.0	23.9	24.8	25.7	28.4	31.9	34.6	38.1
29°	21.3	20.4	21.3	22.2	23.0	23.0	23.9	26.6	29.3	32.8	35.5
30°	20.4	19.5	20.4	20.4	21.3	22.2	23.0	24.8	27.5	30.1	33.7
32.5°	18.6	18.6	18.6	19.5	19.5	20.4	20.4	21.3	23.0	25.7	29.3
35°	16.8	16.8	17.7	17.7	18.6	18.6	18.6	19.5	20.4	22.2	23.9
37.5°	16.0	16.0	16.0	16.8	17.7	17.7	17.7	18.6	18.6	19.5	21.3
40°	15.1	15.1	16.0	16.0	16.8	16.8	16.8	17.7	17.7	17.7	18.6
42.5°	14.2	14.2	15.1	15.1	16.0	16.0	16.0	16.0	16.8	16.8	16.8
45°	13.3	13.3	13.3	14.2	15.1	15.1	15.1	15.1	16.0	16.0	16.0
47.5°	12.4	12.4	12.4	13.3	14.2	14.2	14.2	14.2	15.1	15.1	15.1
50°	11.5	11.5	11.5	12.4	12.4	13.3	13.3	13.3	14.2	13.3	14.2
52.5°	9.8	10.6	10.6	10.6	11.5	12.4	12.4	12.4	12.4	12.4	13.3
55°	9.8	8.9	9.8	9.8	10.6	10.6	11.5	11.5	11.5	11.5	11.5
57.5°	8.0	8.0	8.0	8.9	9.8	9.8	9.8	10.6	10.6	10.6	10.6
60°	7.1	7.1	7.1	7.1	8.9	8.9	8.9	8.9	8.9	9.8	9.8
62.5°	6.2	6.2	6.2	6.2	7.1	8.0	8.0	8.0	8.0	8.0	8.0
65°	5.3	5.3	5.3	5.3	6.2	6.2	7.1	7.1	7.1	7.1	7.1



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	4.4	4.4	4.4	4.4	5.3	5.3	5.3	6.2	6.2	6.2	6.2
70°	3.5	3.5	3.5	3.5	4.4	4.4	4.4	5.3	5.3	5.3	5.3
72.5°	2.7	2.7	2.7	2.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
1°	1144.5	1143.6	1144.5	1144.5	1145.4	1149.8	1148.0	1148.0	1149.8	1151.6	1152.4
2°	1107.2	1109.9	1114.3	1117.9	1119.6	1123.2	1125.0	1128.5	1131.2	1133.8	1134.7
3°	1054.9	1061.1	1070.9	1080.6	1084.2	1089.5	1095.7	1100.1	1104.6	1109.0	1109.9
4°	983.1	994.6	1009.7	1022.1	1029.2	1039.0	1049.6	1057.6	1064.7	1067.3	1064.7
5°	881.2	901.6	925.5	947.7	956.5	970.7	986.7	999.1	1009.7	1015.0	1012.4
6°	759.7	789.9	824.4	857.2	868.8	888.3	912.2	927.3	942.3	947.7	945.0
7°	625.0	664.0	709.2	752.6	768.6	794.3	824.4	845.7	864.3	870.5	867.9
8°	496.4	545.2	589.5	655.1	677.3	696.8	744.7	773.9	795.2	804.1	799.6
9°	377.6	447.7	504.4	578.9	607.2	640.9	684.4	726.9	751.7	762.4	758.0
10°	296.1	368.8	436.2	520.4	554.9	594.0	650.7	701.2	732.2	746.4	740.2
11°	233.1	304.1	378.5	472.5	514.2	559.4	633.0	696.8	735.8	755.3	746.4
12°	185.3	250.0	326.2	430.8	479.6	532.8	629.4	711.9	764.2	790.8	776.6
13°	151.6	204.8	280.1	393.6	451.2	515.1	639.2	748.2	816.5	852.8	832.4
14°	128.5	171.1	241.1	359.0	428.2	504.4	663.1	802.3	890.0	935.3	911.3
15°	111.7	146.3	207.4	329.8	408.7	498.2	695.0	867.0	976.9	1025.7	998.2
16°	101.9	128.5	181.7	302.3	390.9	494.7	727.8	930.8	1061.1	1113.4	1081.5
17°	92.2	115.2	164.0	276.6	370.6	487.6	750.0	989.3	1140.9	1195.9	1158.6
18°	85.1	105.5	145.4	250.9	347.5	473.4	766.8	1034.5	1203.0	1262.4	1221.6
19°	78.9	96.6	131.2	226.1	320.0	451.2	771.3	1063.8	1244.6	1306.7	1259.7
20°	72.7	88.6	118.8	199.5	289.0	418.4	754.4	1063.8	1249.1	1310.2	1267.7
21°	67.4	82.4	107.3	174.6	253.5	375.9	712.7	1031.9	1218.9	1277.4	1239.3
22°	62.1	75.4	97.5	150.7	216.3	326.2	648.0	966.3	1148.9	1209.2	1175.5
23°	57.6	69.1	88.6	130.3	180.0	273.0	562.0	871.4	1054.0	1115.2	1069.1
24°	53.2	63.8	79.8	111.7	148.9	220.7	465.4	743.8	937.0	998.2	953.9
25°	49.6	58.5	72.7	97.5	123.2	175.5	369.7	616.1	797.8	858.1	813.8
26°	46.1	53.2	64.7	85.1	102.8	139.2	282.8	489.3	650.7	707.4	667.5
27°	43.4	49.6	59.4	75.4	87.8	111.7	208.3	372.3	506.2	557.6	520.4
28°	40.8	46.1	54.1	67.4	76.2	93.1	153.4	270.4	377.6	422.9	405.1
29°	38.1	42.6	49.6	60.3	66.5	78.0	113.5	186.2	268.6	306.7	290.8
30°	36.3	39.9	45.2	53.2	58.5	67.4	86.9	128.5	181.7	211.0	198.6
32.5°	31.9	34.6	37.2	41.7	45.2	49.6	56.7	68.3	78.0	86.9	81.6
35°	26.6	29.3	31.9	34.6	37.2	39.0	41.7	47.0	50.5	52.3	51.4
37.5°	22.2	24.8	26.6	29.3	30.1	31.9	33.7	36.3	39.0	39.9	39.0
40°	19.5	20.4	22.2	23.9	24.8	25.7	27.5	28.4	31.0	31.9	31.0
42.5°	17.7	18.6	19.5	20.4	21.3	21.3	23.0	23.9	24.8	26.6	25.7
45°	16.0	16.8	16.8	17.7	17.7	18.6	19.5	20.4	22.2	23.0	23.0
47.5°	15.1	15.1	16.0	16.0	16.0	16.8	16.8	17.7	19.5	20.4	20.4
50°	14.2	14.2	14.2	15.1	15.1	15.1	15.1	16.0	17.7	18.6	17.7
52.5°	13.3	13.3	13.3	13.3	13.3	13.3	14.2	14.2	16.0	16.0	16.0
55°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	13.3	14.2	15.1	14.2
57.5°	10.6	10.6	10.6	10.6	11.5	11.5	11.5	11.5	12.4	13.3	12.4
60°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	10.6	10.6	11.5	10.6
62.5°	8.9	8.9	8.9	8.0	8.0	8.0	8.9	8.9	8.9	9.8	9.8
65°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.0	8.0	8.0	8.0



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
67.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.1	7.1	7.1
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
72.5°	3.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.7	2.7	2.7	2.7	3.5	2.7	2.7	3.5	3.5	3.5	3.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	1.8	2.7	2.7	1.8
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
1°	1150.7	1150.7	1153.3	1151.6	1152.4	1153.3	1154.2	1151.6	1149.8	1151.6	1151.6
2°	1132.9	1132.9	1132.9	1128.5	1129.4	1125.8	1125.8	1118.8	1115.2	1115.2	1113.4
3°	1105.5	1104.6	1102.8	1095.7	1095.7	1089.5	1085.1	1070.9	1060.2	1056.7	1048.7
4°	1062.9	1061.1	1057.6	1044.3	1045.2	1034.5	1016.8	1000.9	981.3	971.6	957.4
5°	1008.8	1002.6	993.8	975.1	975.1	955.6	941.5	907.8	877.6	865.2	841.3
6°	937.9	929.9	916.6	890.9	890.0	861.7	838.6	794.3	751.7	735.8	705.6
7°	858.1	844.8	824.4	793.4	788.1	750.0	718.1	664.9	609.9	585.1	547.9
8°	786.3	765.0	735.8	701.2	688.8	640.0	597.5	534.6	474.3	441.5	395.4
9°	739.3	709.2	668.4	631.2	612.6	550.5	493.8	425.5	357.3	305.8	273.0
10°	715.4	674.6	616.1	581.5	554.1	480.5	414.0	338.6	267.7	219.0	189.7
11°	712.7	657.8	586.0	545.2	508.8	422.9	346.6	266.8	200.3	162.2	141.0
12°	732.2	656.9	563.8	514.2	470.7	372.3	286.3	210.1	156.0	127.7	112.6
13°	771.3	672.0	553.2	491.1	436.2	324.5	234.0	166.7	125.9	106.4	95.7
14°	829.8	700.3	548.7	473.4	406.0	280.1	191.5	136.5	106.4	92.2	84.2
15°	898.0	737.6	551.4	460.1	378.5	239.4	160.5	117.0	94.0	82.4	75.4
16°	965.4	775.7	554.9	446.8	351.9	208.3	137.4	102.8	85.1	74.5	68.3
17°	1026.6	809.4	554.1	429.1	323.6	180.0	120.6	93.1	77.1	69.1	62.9
18°	1070.9	832.4	546.1	406.0	295.2	158.7	108.2	84.2	70.9	63.8	57.6
19°	1102.8	839.5	525.7	379.4	264.2	140.1	98.4	78.0	65.6	59.4	54.1
20°	1105.5	828.9	492.0	340.4	232.3	125.0	89.5	71.8	61.2	55.0	50.5
21°	1074.4	798.7	445.9	299.6	200.3	111.7	82.4	66.5	56.7	51.4	47.9
22°	1010.6	741.1	387.4	251.8	169.3	100.2	75.4	62.1	53.2	47.9	44.3
23°	920.2	659.6	324.5	208.3	142.7	90.4	69.1	57.6	49.6	45.2	41.7
24°	807.6	557.6	261.5	168.4	120.6	80.7	63.8	53.2	46.1	42.6	39.9
25°	678.2	449.5	203.9	136.5	103.7	73.6	58.5	49.6	43.4	40.8	37.2
26°	530.1	347.5	158.7	113.5	90.4	66.5	55.0	46.1	41.7	38.1	34.6
27°	406.9	259.7	125.0	94.9	78.9	60.3	49.6	43.4	39.0	36.3	31.9
28°	298.7	172.9	100.2	81.6	69.1	55.0	46.1	40.8	37.2	33.7	30.1
29°	207.4	129.4	82.4	70.0	62.1	50.5	43.4	38.1	34.6	31.0	28.4
30°	141.8	95.7	69.1	61.2	55.0	46.1	39.9	36.3	32.8	29.3	25.7
32.5°	70.9	58.5	49.6	46.1	42.6	37.2	33.7	31.0	27.5	24.8	22.2
35°	47.9	42.6	38.1	36.3	34.6	31.0	28.4	25.7	23.0	21.3	19.5
37.5°	36.3	33.7	31.0	30.1	28.4	25.7	23.9	21.3	20.4	18.6	18.6
40°	29.3	27.5	25.7	24.8	23.9	22.2	20.4	18.6	18.6	17.7	16.8
42.5°	23.9	23.0	21.3	20.4	20.4	18.6	17.7	16.8	16.8	16.0	16.0
45°	21.3	19.5	18.6	17.7	17.7	16.8	16.8	16.0	16.0	15.1	15.1
47.5°	18.6	17.7	16.8	16.0	16.0	15.1	15.1	15.1	14.2	14.2	14.2
50°	16.8	16.0	15.1	15.1	14.2	14.2	14.2	13.3	13.3	13.3	13.3
52.5°	15.1	14.2	13.3	13.3	13.3	12.4	12.4	12.4	12.4	11.5	11.5
55°	13.3	12.4	12.4	12.4	11.5	11.5	11.5	11.5	11.5	10.6	10.6
57.5°	12.4	11.5	10.6	10.6	10.6	10.6	10.6	10.6	9.8	9.8	9.8
60°	10.6	9.8	9.8	9.8	9.8	8.9	8.9	8.9	8.9	8.9	8.9
62.5°	8.9	8.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
65°	8.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.2	6.2



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
67.5°	6.2	6.2	6.2	6.2	6.2	6.2	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	5.3	5.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	4.4	4.4	4.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	3.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	0.9	1.8	1.8	1.8	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
1°	1150.7	1149.8	1148.9	1150.7	1152.4	1148.0	1146.2	1146.2
2°	1109.9	1109.0	1103.7	1107.2	1109.9	1100.1	1098.4	1097.5
3°	1039.9	1033.7	1023.9	1030.1	1033.7	1016.8	1013.3	1008.8
4°	941.5	929.9	914.9	922.8	924.6	902.5	897.1	891.8
5°	815.6	781.9	778.3	785.4	788.1	758.8	753.5	744.7
6°	672.0	629.4	644.5	633.0	630.3	597.5	590.4	579.8
7°	510.6	462.8	453.9	462.8	457.4	420.2	414.0	399.8
8°	353.7	312.0	319.1	307.6	284.6	272.2	267.7	257.1
9°	236.7	203.9	195.9	199.5	182.6	174.6	172.0	164.9
10°	163.1	142.7	137.4	139.2	128.5	124.1	122.3	117.9
11°	124.1	111.7	110.8	107.3	101.1	98.4	97.5	94.9
12°	101.1	93.1	92.2	88.6	86.0	83.3	82.4	79.8
13°	87.8	81.6	79.8	78.9	74.5	71.8	70.9	70.0
14°	77.1	71.8	70.9	69.1	66.5	63.8	62.9	61.2
15°	69.1	64.7	63.8	62.1	59.4	57.6	56.7	55.8
16°	62.9	58.5	57.6	56.7	54.1	52.3	51.4	50.5
17°	57.6	55.0	53.2	52.3	49.6	48.8	47.0	46.1
18°	54.1	51.4	49.6	47.9	46.1	45.2	44.3	43.4
19°	50.5	47.9	46.1	45.2	43.4	41.7	40.8	40.8
20°	47.0	45.2	43.4	42.6	40.8	39.0	38.1	38.1
21°	44.3	42.6	40.8	39.9	38.1	36.3	35.5	35.5
22°	41.7	39.0	37.2	36.3	34.6	33.7	31.9	31.9
23°	39.0	36.3	34.6	33.7	31.9	30.1	29.3	29.3
24°	36.3	32.8	31.9	31.0	29.3	28.4	27.5	26.6
25°	33.7	30.1	29.3	28.4	26.6	25.7	24.8	24.8
26°	31.0	28.4	27.5	26.6	24.8	23.9	23.0	23.0
27°	28.4	26.6	24.8	24.8	23.0	22.2	22.2	22.2
28°	26.6	24.8	23.9	23.0	22.2	21.3	20.4	21.3
29°	24.8	23.0	22.2	22.2	21.3	20.4	19.5	19.5
30°	23.0	22.2	21.3	21.3	20.4	19.5	18.6	19.5
32.5°	21.3	20.4	19.5	19.5	18.6	17.7	17.7	17.7
35°	19.5	18.6	18.6	18.6	17.7	16.8	16.8	16.8
37.5°	17.7	17.7	16.8	16.8	16.8	16.0	15.1	15.1
40°	16.8	16.0	16.0	16.0	16.0	15.1	14.2	14.2
42.5°	16.0	16.0	15.1	15.1	14.2	14.2	13.3	13.3
45°	15.1	14.2	14.2	14.2	13.3	13.3	12.4	12.4
47.5°	13.3	13.3	13.3	13.3	12.4	12.4	11.5	11.5
50°	12.4	12.4	12.4	12.4	11.5	10.6	10.6	10.6
52.5°	11.5	11.5	11.5	10.6	10.6	9.8	9.8	9.8
55°	10.6	10.6	10.6	9.8	9.8	8.9	8.9	8.9
57.5°	9.8	9.8	8.9	8.9	8.0	8.0	8.0	8.0
60°	8.0	8.0	8.0	8.0	7.1	6.2	6.2	6.2
62.5°	7.1	7.1	7.1	6.2	6.2	5.3	5.3	5.3
65°	6.2	6.2	6.2	5.3	5.3	5.3	4.4	5.3



TEST NUMBER: P246952

CATALOG NUMBER: 203-FL-8LED3010-12-BK-LSL

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
67.5°	5.3	5.3	4.4	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.0	0.0	0.0	0.9	0.9	0.0	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)