

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: McGRAW-EDISON

Report Number: P228151

Luminaire Tested: **ISC-AF-1200-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-1200-LED-E1-SL2-8030
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5079 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

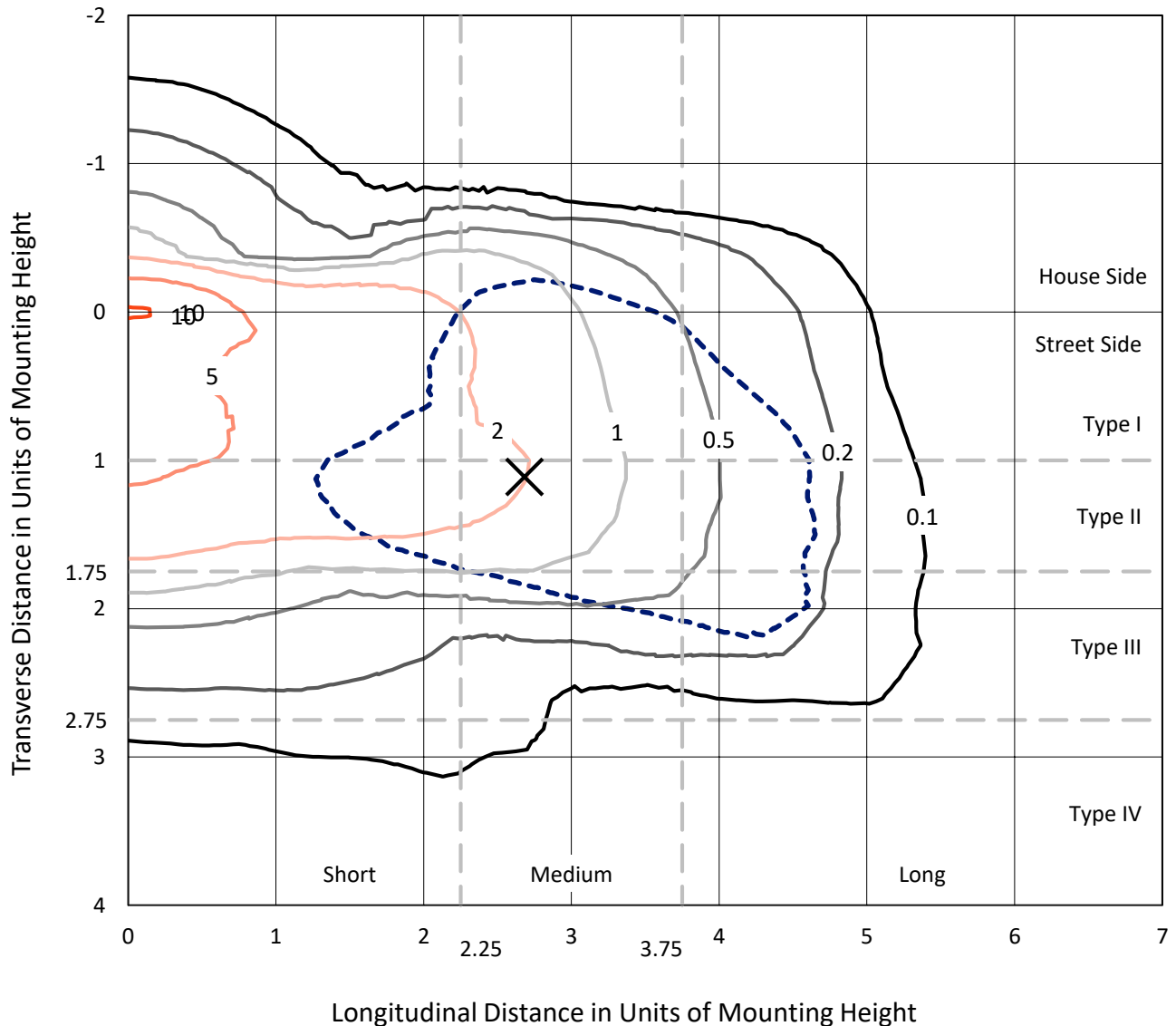
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

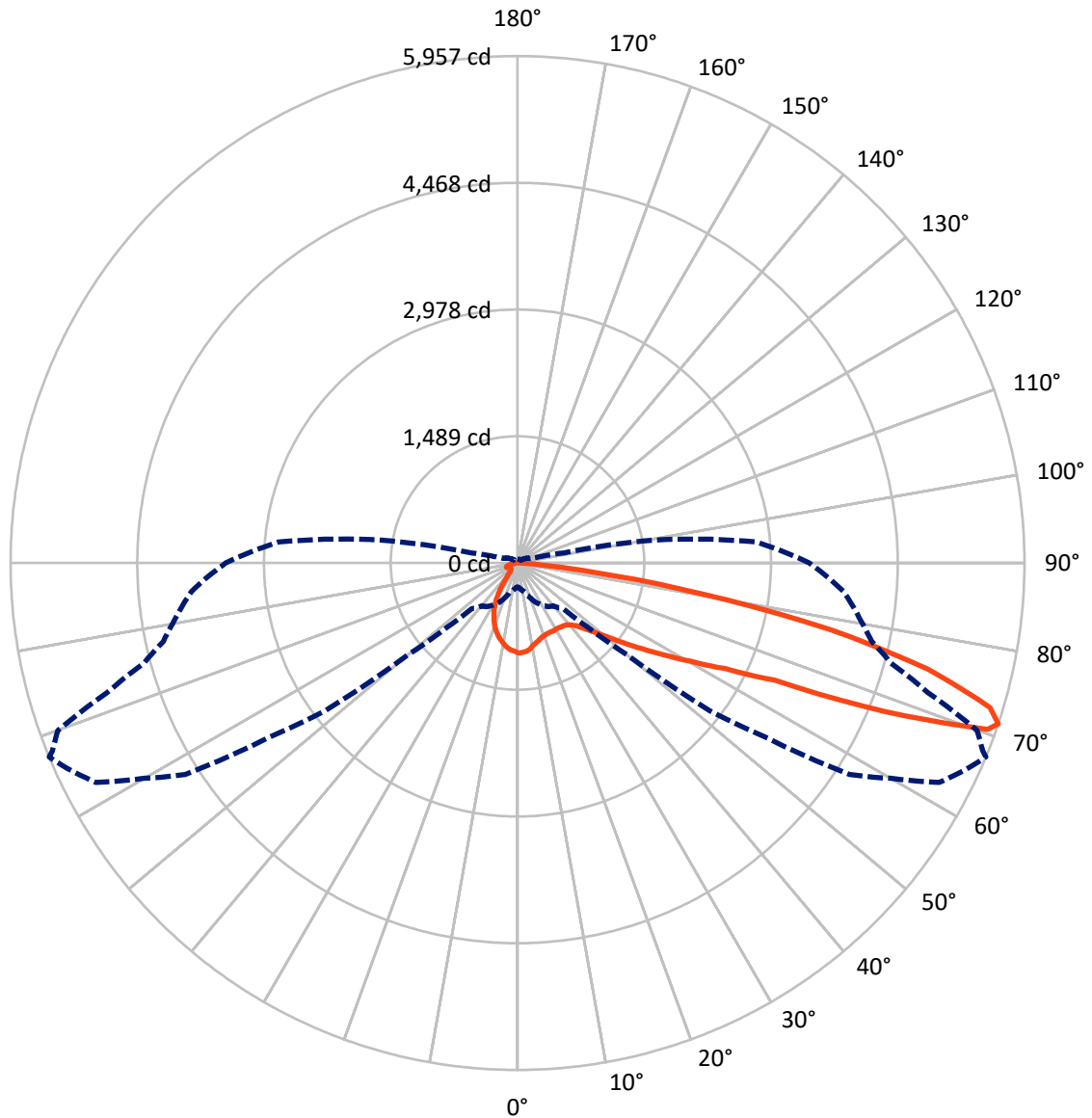
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P228151
CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P228151

CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.9	0.0	855.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4223.1	0.0	4223.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	5079.0	0.0	5079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.8
10°-20°	220.9	4.4
20°-30°	300.5	5.9
30°-40°	410.7	8.1
40°-50°	618.8	12.2
50°-60°	980.7	19.3
60°-70°	1298.2	25.6
70°-80°	1034.2	20.4
80°-90°	122.6	2.4
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°	5079.0	100.0
0°-180°	5079.0	100.0



REPORT NUMBER: P228151

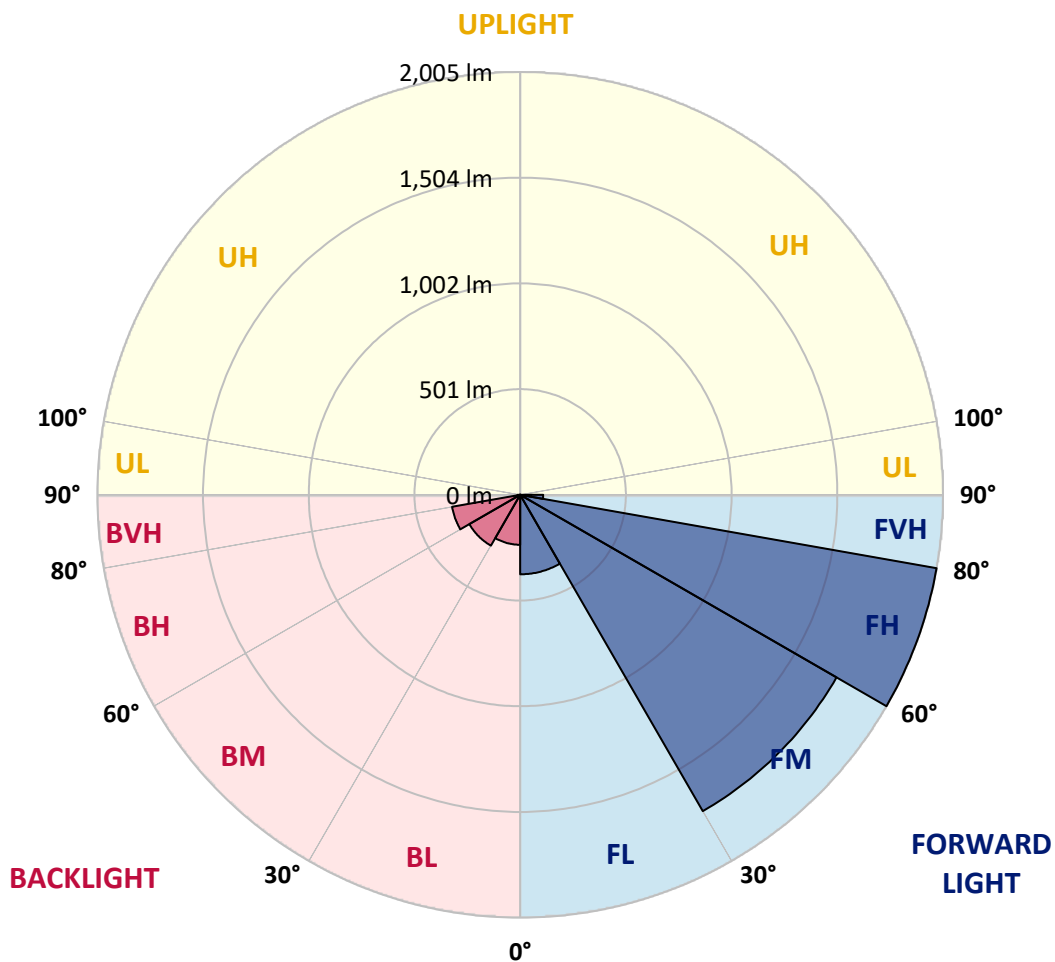
CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.9	7.4			
FM	(30°-60°)	1732.0	34.1			
FH	(60°-80°)	2004.9	39.5			G2/5000
FVH	(80°-90°)	109.3	2.2			G2/225
BL	(0°-30°)	236.9	4.7	B1/500		
BM	(30°-60°)	278.1	5.5	B1/1000		
BH	(60°-80°)	327.6	6.4	B1/500		G1/500
BVH	(80°-90°)	13.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P228151

CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1038.9	1035.4	1035.4	1040.7	1049.5	1042.4	1047.8	1047.8	1049.5	1054.9	1056.6
5°	962.7	955.6	962.7	969.8	989.3	985.7	991.0	996.4	1007.0	1008.8	1022.9
7.5°	893.5	890.0	895.3	909.5	934.3	927.2	934.3	941.4	953.8	959.1	973.3
10°	840.3	835.0	842.1	852.8	877.6	875.8	879.3	888.2	902.4	905.9	923.7
12.5°	801.3	801.3	804.9	819.1	840.3	838.6	849.2	854.5	866.9	870.5	890.0
15°	781.8	776.5	783.6	796.0	817.3	817.3	824.4	829.7	847.4	849.2	866.9
17.5°	764.1	765.9	767.7	781.8	801.3	797.8	806.7	810.2	829.7	826.2	847.4
20°	764.1	767.7	765.9	774.7	788.9	781.8	792.5	794.2	815.5	810.2	833.2
22.5°	785.4	788.9	783.6	781.8	787.2	781.8	787.2	790.7	806.7	803.1	824.4
25°	822.6	829.7	822.6	810.2	804.9	790.7	794.2	799.6	812.0	803.1	822.6
27.5°	881.1	886.4	874.0	861.6	836.8	820.8	815.5	813.7	827.9	813.7	829.7
30°	948.5	955.6	944.9	921.9	886.4	859.8	849.2	843.9	852.8	831.5	847.4
32.5°	1021.2	1028.3	1021.2	1003.4	955.6	916.6	902.4	890.0	897.1	868.7	875.8
35°	1095.6	1102.7	1109.8	1099.2	1037.1	992.8	969.8	959.1	957.4	921.9	923.7
37.5°	1161.2	1168.3	1191.4	1202.0	1145.3	1085.0	1063.7	1040.7	1042.4	992.8	992.8
40°	1241.0	1249.9	1280.0	1304.8	1267.6	1194.9	1170.1	1145.3	1145.3	1079.7	1081.5
42.5°	1349.2	1359.8	1379.3	1413.0	1400.6	1326.1	1299.5	1265.8	1269.4	1191.4	1189.6
45°	1501.6	1508.7	1508.7	1530.0	1531.8	1460.8	1443.1	1409.4	1416.5	1317.2	1322.6
47.5°	1700.2	1691.3	1655.9	1668.3	1682.5	1608.0	1592.0	1570.8	1579.6	1473.3	1483.9
50°	1884.6	1877.5	1804.8	1808.3	1859.7	1783.5	1778.2	1751.6	1764.0	1657.6	1673.6
52.5°	1953.7	1941.3	1868.6	1907.6	2051.2	2008.7	2017.5	2005.1	2012.2	1898.7	1895.2
55°	1875.7	1875.7	1831.4	1902.3	2194.8	2217.9	2290.6	2318.9	2349.1	2235.6	2210.8
57.5°	1659.4	1673.6	1680.7	1806.6	2171.8	2271.0	2409.3	2529.9	2684.1	2677.0	2714.3
60°	1301.3	1326.1	1366.9	1572.5	2072.5	2235.6	2414.7	2595.5	2808.2	2944.7	3146.8
62.5°	913.0	934.3	968.0	1109.8	1783.5	2063.6	2322.5	2600.8	2872.1	3086.6	3352.5
65°	620.5	641.8	712.7	790.7	1076.1	1483.9	1879.2	2340.2	2753.3	3152.2	3510.3
67.5°	446.8	459.2	514.1	645.3	716.2	790.7	937.8	1480.3	1989.2	2792.3	3315.3
70°	335.1	347.5	397.1	542.5	629.4	648.9	684.3	780.1	909.5	1569.0	2255.1
71°	280.1	297.8	358.1	510.6	625.8	641.8	657.7	714.5	757.0	1109.8	1673.6
72.5°	196.8	209.2	265.9	471.6	601.0	638.2	675.5	673.7	670.1	757.0	1012.3
75°	125.9	125.9	125.9	265.9	641.8	618.7	632.9	709.1	670.1	636.5	666.6
77.5°	99.3	97.5	92.2	133.0	501.7	627.6	664.8	684.3	721.6	664.8	634.7
80°	74.5	72.7	72.7	83.3	232.2	406.0	562.0	624.1	650.6	707.4	645.3
82.5°	39.0	39.0	42.5	49.6	86.9	141.8	290.8	478.7	535.4	539.0	544.3
85°	12.4	10.6	14.2	23.0	37.2	46.1	81.6	193.2	287.2	347.5	367.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.1	12.4	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228151

CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1051.3	1058.4	1053.1	1060.2	1051.3	1062.0	1053.1	1058.4	1060.2	1053.1	1062.0
5°	1014.1	1035.4	1028.3	1044.2	1037.1	1051.3	1044.2	1058.4	1058.4	1053.1	1065.5
7.5°	968.0	989.3	991.0	1007.0	1007.0	1024.7	1024.7	1038.9	1046.0	1046.0	1063.7
10°	921.9	941.4	944.9	962.7	966.2	987.5	987.5	1007.0	1021.2	1026.5	1047.8
12.5°	886.4	911.3	911.3	930.8	927.2	959.1	962.7	980.4	994.6	1007.0	1035.4
15°	865.2	888.2	888.2	907.7	904.2	936.1	941.4	959.1	980.4	987.5	1026.5
17.5°	843.9	866.9	861.6	888.2	886.4	921.9	918.3	944.9	962.7	973.3	1017.6
20°	826.2	852.8	849.2	875.8	868.7	907.7	907.7	934.3	952.0	960.9	1012.3
22.5°	817.3	845.7	838.6	865.2	859.8	898.8	898.8	925.4	944.9	959.1	1010.5
25°	817.3	842.1	835.0	865.2	856.3	898.8	897.1	923.7	943.2	955.6	1012.3
27.5°	820.8	845.7	840.3	868.7	861.6	898.8	902.4	925.4	944.9	959.1	1015.9
30°	833.2	856.3	843.9	870.5	865.2	900.6	898.8	923.7	943.2	960.9	1015.9
32.5°	859.8	872.3	856.3	879.3	868.7	904.2	904.2	921.9	944.9	966.2	1015.9
35°	897.1	905.9	881.1	897.1	877.6	913.0	911.3	930.8	948.5	966.2	1019.4
37.5°	950.3	960.9	921.9	936.1	904.2	932.5	925.4	948.5	966.2	976.9	1037.1
40°	1030.0	1033.6	982.2	992.8	948.5	973.3	955.6	987.5	996.4	1003.4	1063.7
42.5°	1127.5	1131.1	1065.5	1072.6	1015.9	1037.1	1007.0	1040.7	1053.1	1051.3	1116.9
45°	1248.1	1249.9	1175.4	1180.7	1115.1	1132.9	1095.6	1124.0	1132.9	1127.5	1194.9
47.5°	1379.3	1393.5	1310.2	1317.2	1248.1	1257.0	1210.9	1242.8	1242.8	1237.5	1306.6
50°	1553.0	1574.3	1476.8	1487.4	1407.7	1414.8	1361.6	1395.3	1391.7	1377.5	1455.5
52.5°	1769.3	1788.8	1686.0	1700.2	1615.1	1618.6	1553.0	1592.0	1581.4	1558.4	1648.8
55°	2033.5	2035.3	1939.5	1951.9	1866.8	1861.5	1780.0	1827.8	1811.9	1780.0	1863.3
57.5°	2457.2	2405.8	2248.0	2244.5	2152.3	2145.2	2040.6	2099.1	2072.5	2005.1	2115.0
60°	3139.8	3155.7	2753.3	2691.2	2519.3	2487.3	2349.1	2416.4	2384.5	2274.6	2382.7
62.5°	3524.5	3778.0	3753.2	3529.8	3086.6	2966.0	2732.0	2811.8	2728.4	2567.1	2668.2
65°	3809.9	4153.8	4352.4	4566.9	4368.4	3875.5	3322.4	3434.1	3230.2	2923.5	3021.0
67.5°	3916.3	4331.1	4749.5	5054.5	5261.9	5299.1	4659.1	4689.2	4187.5	3574.1	3586.5
70°	3359.6	3971.2	4790.3	5176.8	5588.1	5790.2	5857.6	5825.7	5501.2	4632.5	4301.0
71°	2847.2	3588.3	4627.2	5058.0	5584.5	5779.6	5956.8	5896.6	5745.9	5052.7	4543.9
72.5°	1928.9	2859.6	4150.3	4696.3	5398.4	5540.2	5806.2	5699.8	5667.9	5366.5	4770.8
75°	907.7	1425.4	2700.1	3526.2	4568.7	4705.2	4983.5	4852.4	4769.0	4871.9	4538.6
77.5°	668.4	778.3	1482.1	2191.3	3322.4	3515.6	3754.9	3593.6	3487.2	3590.1	3357.8
80°	608.1	611.6	767.7	1155.9	1982.1	2097.3	2187.7	2056.5	1895.2	1888.1	1673.6
82.5°	560.2	530.1	498.2	611.6	1015.9	966.2	893.5	827.9	643.6	515.9	372.3
85°	356.3	390.0	354.6	335.1	404.2	333.3	264.2	253.5	179.1	120.6	111.7
87.5°	24.8	28.4	33.7	39.0	47.9	39.0	24.8	30.1	17.7	0.0	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228151

CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1049.5	1058.4	1062.0	1060.2	1056.6	1053.1	1040.7	1049.5	1037.1	1046.0	1035.4
5°	1054.9	1067.3	1069.0	1065.5	1062.0	1054.9	1033.6	1046.0	1031.8	1038.9	1022.9
7.5°	1053.1	1072.6	1074.4	1070.8	1063.7	1051.3	1030.0	1038.9	1015.9	1021.2	999.9
10°	1044.2	1072.6	1074.4	1065.5	1054.9	1035.4	1010.5	1014.1	991.0	991.0	962.7
12.5°	1035.4	1069.0	1077.9	1065.5	1047.8	1021.2	992.8	989.3	962.7	960.9	929.0
15°	1035.4	1072.6	1085.0	1069.0	1042.4	1005.2	971.5	964.4	934.3	925.4	890.0
17.5°	1033.6	1072.6	1090.3	1069.0	1037.1	989.3	946.7	939.6	900.6	886.4	845.7
20°	1031.8	1076.1	1093.9	1065.5	1021.2	969.8	921.9	907.7	865.2	842.1	794.2
22.5°	1030.0	1083.2	1097.4	1062.0	1010.5	944.9	895.3	870.5	820.8	790.7	734.0
25°	1038.9	1092.1	1099.2	1058.4	994.6	918.3	865.2	831.5	776.5	737.5	670.1
27.5°	1042.4	1101.0	1102.7	1051.3	975.1	890.0	833.2	787.2	725.1	677.2	601.0
30°	1053.1	1102.7	1097.4	1037.1	952.0	854.5	796.0	739.3	670.1	608.1	517.7
32.5°	1056.6	1108.0	1093.9	1021.2	929.0	819.1	753.5	687.9	604.5	531.9	421.9
35°	1063.7	1111.6	1090.3	1012.3	904.2	781.8	709.1	634.7	539.0	446.8	320.9
37.5°	1074.4	1127.5	1099.2	1008.8	891.8	749.9	659.5	579.7	460.9	352.8	212.7
40°	1101.0	1159.5	1115.1	1014.1	882.9	723.3	611.6	523.0	372.3	260.6	147.1
42.5°	1154.1	1214.4	1155.9	1040.7	888.2	700.3	562.0	462.7	281.9	186.2	122.3
45°	1233.9	1285.3	1223.3	1085.0	909.5	687.9	515.9	400.7	202.1	148.9	111.7
47.5°	1350.9	1400.6	1322.6	1155.9	946.7	682.6	468.0	335.1	156.0	134.7	108.1
50°	1505.2	1563.7	1466.2	1267.6	1015.9	687.9	416.6	273.0	136.5	131.2	106.4
52.5°	1694.9	1751.6	1654.1	1432.5	1129.3	718.0	361.7	237.6	129.4	129.4	104.6
55°	1909.4	1989.2	1893.4	1661.2	1304.8	783.6	328.0	225.2	129.4	131.2	102.8
57.5°	2162.9	2230.3	2145.2	1881.0	1515.8	891.8	331.5	237.6	129.4	131.2	101.1
60°	2411.1	2494.4	2396.9	2161.1	1756.9	1054.9	404.2	301.4	134.7	136.5	101.1
62.5°	2669.9	2733.8	2654.0	2405.8	2029.9	1257.0	549.6	436.1	156.0	161.3	108.1
65°	2953.6	3058.2	2974.9	2771.0	2416.4	1579.6	826.2	654.2	230.5	187.9	118.8
67.5°	3444.7	3487.2	3446.5	3260.3	2868.5	1845.6	983.9	664.8	230.5	182.6	133.0
70°	4109.5	4013.8	3831.2	3483.7	2916.4	1655.9	705.6	406.0	196.8	173.7	140.1
71°	4263.8	4116.6	3847.1	3428.7	2817.1	1494.5	547.8	320.9	184.4	170.2	140.1
72.5°	4357.7	4137.9	3730.1	3267.4	2622.1	1177.2	361.7	251.7	168.4	161.3	134.7
75°	4235.4	3829.4	3294.0	2827.7	2146.9	611.6	226.9	191.5	143.6	140.1	117.0
77.5°	3363.1	3006.8	2430.6	2054.8	1381.1	271.2	163.1	145.4	113.5	109.9	90.4
80°	1569.0	1258.7	737.5	632.9	434.4	159.6	111.7	99.3	81.6	78.0	63.8
82.5°	285.4	214.5	166.6	161.3	145.4	94.0	65.6	60.3	51.4	49.6	40.8
85°	97.5	94.0	70.9	70.9	72.7	49.6	37.2	35.5	26.6	26.6	17.7
87.5°	1.8	8.9	8.9	12.4	10.6	8.9	3.5	5.3	1.8	5.3	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



REPORT NUMBER: P228151

CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1044.2	1030.0	1042.4	1030.0	1037.1	1022.9	1031.8	1026.5	1026.5	1021.2	1017.6
5°	1028.3	1010.5	1019.4	1005.2	1012.3	991.0	996.4	987.5	969.8	959.1	944.9
7.5°	1005.2	978.6	985.7	964.4	969.8	941.4	946.7	930.8	897.1	875.8	854.5
10°	964.4	939.6	941.4	914.8	913.0	884.7	879.3	858.1	808.4	773.0	744.6
12.5°	923.7	895.3	891.8	859.8	854.5	820.8	813.7	780.1	707.4	638.2	593.9
15°	881.1	845.7	835.0	801.3	781.8	753.5	734.0	684.3	579.7	489.3	430.8
17.5°	833.2	787.2	771.2	732.2	703.8	661.3	632.9	565.5	430.8	333.3	292.5
20°	771.2	721.6	693.2	643.6	606.3	554.9	519.5	432.6	287.2	237.6	232.2
22.5°	702.1	643.6	608.1	546.0	499.9	445.0	388.3	292.5	203.9	193.2	200.3
25°	629.4	556.7	510.6	434.4	372.3	308.5	255.3	195.0	166.6	164.9	175.5
27.5°	542.5	459.2	393.6	303.2	246.4	196.8	173.7	154.2	141.8	143.6	154.2
30°	446.8	338.6	269.5	189.7	164.9	143.6	140.1	133.0	127.6	131.2	138.3
32.5°	333.3	216.3	173.7	136.5	134.7	122.3	125.9	122.3	120.6	122.3	127.6
35°	225.2	143.6	136.5	117.0	120.6	111.7	117.0	115.2	113.5	113.5	117.0
37.5°	156.0	118.8	122.3	108.1	113.5	106.4	111.7	109.9	108.1	106.4	108.1
40°	129.4	108.1	113.5	102.8	108.1	101.1	106.4	104.6	102.8	99.3	99.3
42.5°	118.8	102.8	108.1	97.5	104.6	95.7	102.8	99.3	95.7	92.2	94.0
45°	115.2	99.3	104.6	94.0	101.1	92.2	97.5	95.7	88.6	86.9	88.6
47.5°	111.7	97.5	102.8	92.2	97.5	88.6	94.0	90.4	83.3	81.6	83.3
50°	109.9	94.0	99.3	88.6	94.0	86.9	90.4	86.9	79.8	78.0	78.0
52.5°	108.1	92.2	97.5	85.1	90.4	79.8	85.1	81.6	74.5	72.7	72.7
55°	108.1	90.4	94.0	81.6	86.9	76.2	79.8	76.2	72.7	69.1	69.1
57.5°	106.4	86.9	92.2	78.0	81.6	72.7	76.2	72.7	67.4	65.6	65.6
60°	106.4	85.1	90.4	76.2	79.8	69.1	72.7	69.1	63.8	62.1	62.1
62.5°	111.7	88.6	92.2	78.0	79.8	69.1	70.9	65.6	60.3	60.3	58.5
65°	122.3	99.3	99.3	81.6	81.6	69.1	70.9	63.8	56.7	56.7	56.7
67.5°	133.0	109.9	108.1	86.9	85.1	69.1	69.1	60.3	53.2	53.2	53.2
70°	140.1	115.2	111.7	88.6	85.1	67.4	65.6	56.7	49.6	49.6	49.6
71°	138.3	115.2	109.9	86.9	81.6	63.8	63.8	55.0	47.9	47.9	46.1
72.5°	131.2	108.1	102.8	81.6	78.0	60.3	60.3	51.4	44.3	44.3	42.5
75°	111.7	92.2	86.9	69.1	65.6	53.2	51.4	42.5	39.0	37.2	37.2
77.5°	86.9	72.7	67.4	55.0	53.2	42.5	40.8	35.5	31.9	31.9	30.1
80°	62.1	51.4	47.9	37.2	33.7	28.4	30.1	26.6	24.8	24.8	23.0
82.5°	37.2	26.6	26.6	21.3	23.0	17.7	19.5	19.5	17.7	14.2	14.2
85°	19.5	12.4	16.0	8.9	12.4	5.3	8.9	7.1	7.1	5.3	5.3
87.5°	3.5	0.0	1.8	0.0	1.8	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



REPORT NUMBER: P228151

CATALOG NUMBER: ISC-AF-1200-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1058.4	1058.4
2.5°	1007.0	1008.8
5°	937.8	941.4
7.5°	838.6	843.9
10°	719.8	723.3
12.5°	567.3	567.3
15°	397.1	400.7
17.5°	278.3	280.1
20°	234.0	235.8
22.5°	209.2	211.0
25°	186.2	187.9
27.5°	161.3	163.1
30°	145.4	147.1
32.5°	131.2	133.0
35°	118.8	118.8
37.5°	109.9	109.9
40°	101.1	101.1
42.5°	95.7	95.7
45°	90.4	90.4
47.5°	85.1	85.1
50°	79.8	81.6
52.5°	74.5	74.5
55°	69.1	69.1
57.5°	63.8	65.6
60°	60.3	60.3
62.5°	56.7	56.7
65°	55.0	55.0
67.5°	51.4	51.4
70°	47.9	47.9
71°	46.1	46.1
72.5°	42.5	42.5
75°	37.2	35.5
77.5°	30.1	30.1
80°	23.0	21.3
82.5°	14.2	12.4
85°	5.3	3.5
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)