

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: NEO-RAY

Report Number: P333300-930

Luminaire Tested: **S125DIP-S1270D365U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333300-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1270D365U930-4F0-1E-UDD-D4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5088.4 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

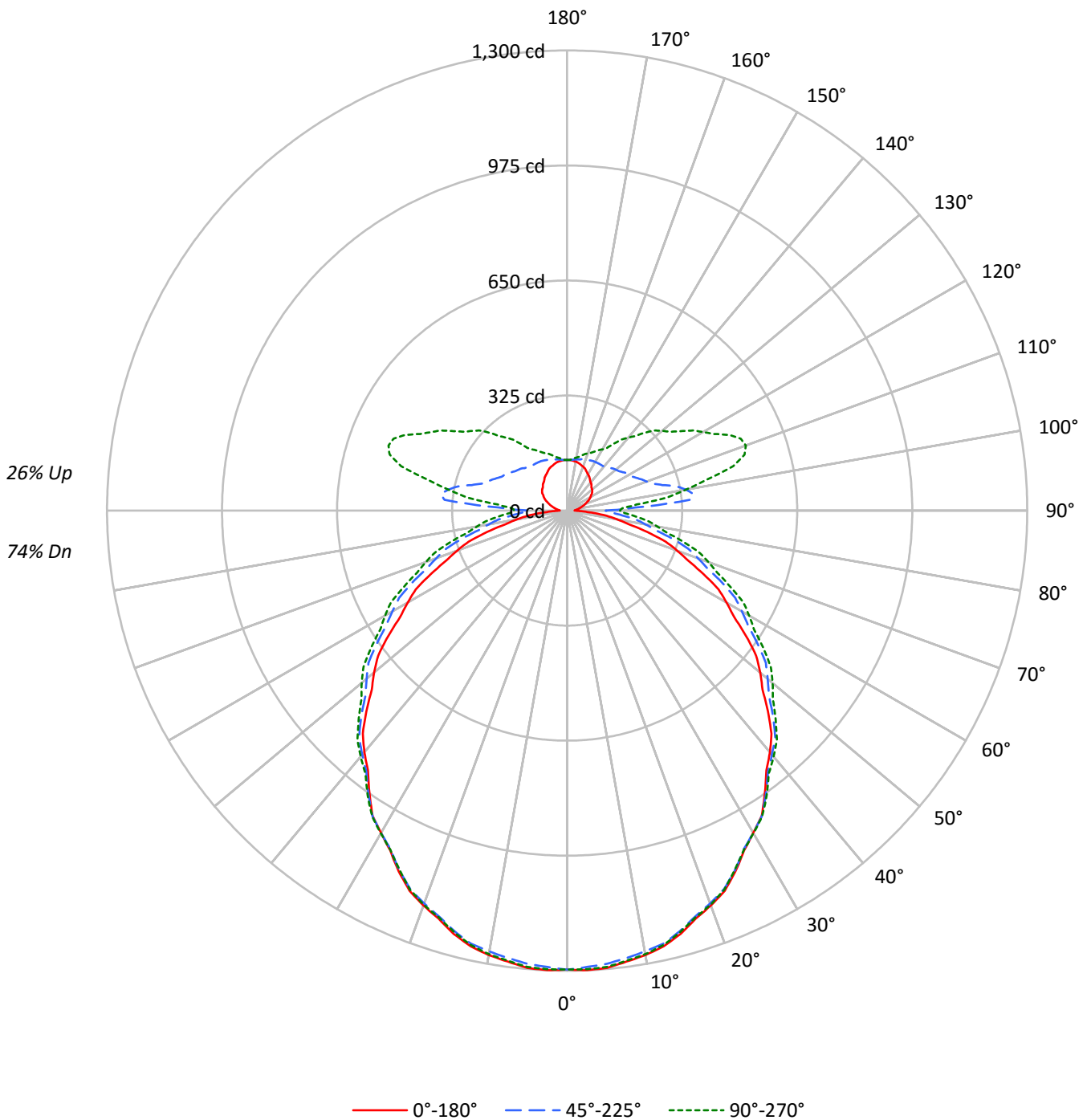
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	102	97	93	89	97	92	88	85	83	80	77	75	73	70	67	66	64	60
2	93	84	77	72	88	80	74	69	72	68	63	65	61	58	59	56	53	50
3	84	74	66	59	80	70	63	57	64	58	53	57	53	49	52	48	45	41
4	77	65	57	50	73	62	54	48	56	50	45	51	46	41	46	42	38	35
5	71	58	49	43	67	55	47	41	50	44	39	46	40	36	41	37	33	30
6	65	52	43	37	62	50	42	36	45	39	34	41	36	31	38	33	29	27
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	29	26	23
8	56	43	35	29	53	41	33	28	38	31	26	34	29	25	31	27	23	21
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21	19
10	49	36	28	23	46	35	28	23	32	26	21	29	24	20	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8374	8374	8374
5°	8391	8220	8245
10°	8331	8072	8060
15°	8232	7896	7825
20°	8098	7680	7590
25°	7939	7447	7300
30°	7746	7191	7036
35°	7566	6956	6795
40°	7383	6709	6552
45°	7176	6497	6337
50°	6978	6267	6147
55°	6741	6051	5923
60°	6482	5802	5695
65°	6210	5544	5437
70°	5903	5190	5173
75°	5415	4849	4849
80°	4780	4438	4496
85°	4189	4162	4384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	2.4
10°-20°	348.0	6.8
20°-30°	517.6	10.2
30°-40°	613.1	12.0
40°-50°	633.9	12.5
50°-60°	583.9	11.5
60°-70°	472.0	9.3
70°-80°	316.1	6.2
80°-90°	164.7	3.2
90°-100°	195.6	3.8
100°-110°	290.5	5.7
110°-120°	254.4	5.0
120°-130°	195.2	3.8
130°-140°	147.2	2.9
140°-150°	104.9	2.1
150°-160°	72.2	1.4
160°-170°	42.6	0.8
170°-180°	13.8	0.3
0°-30°	988.2	19.4
0°-40°	1601.3	31.5
0°-60°	2819.2	55.4
0°-90°	3772.0	74.1
90°-120°	740.5	14.6
90°-150°	1187.8	23.3
90°-180°	1316.0	25.9
0°-180°	5088.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1297	1294	1285	1295	1294	123
15°	1238	1239	1230	1237	1233	349
25°	1125	1128	1121	1126	1120	518
35°	974	982	979	982	983	609
45°	802	816	822	831	833	619
55°	616	637	657	671	676	551
65°	424	454	484	503	508	421
75°	234	267	308	332	339	248
85°	70	112	156	183	194	74
90°	21	64	109	138	149	14
95°	26	78	348	236	197	23
105°	44	78	279	506	486	46
115°	66	88	217	433	505	65
125°	86	100	190	336	391	76
135°	97	116	170	267	311	75
145°	111	126	160	206	231	69
155°	126	135	156	176	184	58
165°	137	141	150	159	161	39
175°	143	143	144	146	145	14
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1299.6	1299.2	1298.7	1298.3	1297.8	1296.8	1295.2	1293.6	1292.1	1290.5	1292.1
5°	1296.6	1296.0	1295.4	1294.9	1294.3	1293.1	1291.0	1289.1	1287.1	1285.2	1287.4
7.5°	1285.2	1284.9	1284.7	1284.4	1284.3	1283.1	1281.1	1279.0	1277.0	1275.0	1276.9
10°	1275.0	1275.0	1275.0	1275.0	1275.0	1273.8	1271.5	1269.3	1267.1	1264.8	1266.7
12.5°	1260.7	1260.9	1261.2	1261.4	1261.6	1260.9	1259.1	1257.2	1255.4	1253.6	1255.2
15°	1238.1	1238.4	1238.7	1238.9	1239.3	1238.4	1236.4	1234.4	1232.5	1230.4	1232.2
17.5°	1208.6	1209.2	1209.7	1210.3	1210.9	1210.1	1208.2	1206.2	1204.2	1202.2	1203.5
20°	1187.2	1187.8	1188.4	1189.0	1189.5	1188.8	1186.8	1184.9	1182.8	1180.9	1181.8
22.5°	1162.9	1163.8	1164.9	1165.9	1166.9	1166.3	1164.1	1161.9	1159.7	1157.5	1158.5
25°	1124.9	1125.8	1126.7	1127.5	1128.4	1128.0	1126.3	1124.5	1122.8	1121.1	1122.3
27.5°	1082.8	1084.0	1085.2	1086.5	1087.8	1087.4	1085.5	1083.5	1081.7	1079.7	1080.5
30°	1051.2	1053.0	1054.6	1056.3	1058.0	1058.0	1056.3	1054.6	1053.0	1051.2	1051.8
32.5°	1022.8	1024.3	1025.7	1027.2	1028.7	1028.7	1027.5	1026.3	1025.0	1023.8	1024.3
35°	973.7	975.7	977.6	979.7	981.6	982.2	981.3	980.5	979.7	978.8	979.7
37.5°	924.6	926.4	928.2	930.1	931.9	932.6	932.4	932.1	931.8	931.5	932.6
40°	891.0	893.3	895.6	897.9	900.1	901.1	900.8	900.5	900.3	900.0	901.1
42.5°	854.4	857.4	860.3	863.2	866.3	868.0	868.6	869.3	869.8	870.5	871.8
45°	802.1	805.2	808.3	811.4	814.5	816.8	818.2	819.6	821.0	822.4	824.4
47.5°	748.4	751.3	754.2	757.1	759.9	762.6	765.1	767.5	769.9	772.3	775.3
50°	711.8	714.9	718.0	721.1	724.3	727.4	730.5	733.6	736.7	739.8	742.9
52.5°	673.2	677.0	680.8	684.5	688.4	692.1	695.9	699.7	703.4	707.3	710.6
55°	616.5	621.0	625.6	630.1	634.5	639.1	643.6	648.2	652.6	657.2	660.3
57.5°	558.6	563.9	569.4	574.8	580.2	585.5	590.8	595.9	601.1	606.3	609.9
60°	519.9	525.5	531.2	536.9	542.5	548.1	553.8	559.5	565.1	570.7	574.9
62.5°	482.2	488.0	493.6	499.2	504.8	510.8	516.8	522.9	529.0	535.2	539.8
65°	424.5	431.0	437.6	444.1	450.5	457.2	464.0	470.8	477.5	484.3	488.5
67.5°	370.1	376.4	382.7	389.0	395.3	401.9	408.7	415.6	422.5	429.4	434.6
70°	330.5	337.0	343.5	350.0	356.4	363.4	370.7	378.1	385.5	392.8	398.2
72.5°	291.9	298.6	305.3	312.0	318.8	326.1	334.1	342.2	350.2	358.2	364.0
75°	233.9	241.2	248.6	255.9	263.3	271.5	280.5	289.5	298.6	307.6	313.2
77.5°	178.2	186.7	195.2	203.7	212.1	220.7	229.4	238.1	246.8	255.5	261.7
80°	143.7	152.1	160.6	169.1	177.6	186.5	196.2	205.8	215.4	225.0	231.2
82.5°	112.1	121.1	130.0	138.9	147.8	157.2	167.1	176.8	186.7	196.5	202.5
85°	70.0	79.2	88.5	97.9	107.2	116.8	126.7	136.6	146.4	156.4	162.6
87.5°	39.7	48.8	58.0	67.1	76.3	85.7	95.4	105.1	114.8	124.5	131.0
90°	20.6	29.9	39.5	49.2	58.8	68.7	78.6	88.8	98.7	108.8	115.6
92.5°	21.9	30.9	41.7	53.6	66.9	84.5	110.1	146.3	184.7	193.1	181.6
95°	26.0	33.7	43.3	53.8	67.5	88.9	129.4	202.4	291.6	348.1	348.8
97.5°	30.8	37.7	46.0	55.8	68.1	85.4	115.0	170.7	263.2	359.1	408.5
100°	34.2	40.7	47.8	56.8	68.2	84.4	110.1	156.6	238.3	341.5	419.5
102.5°	38.0	43.8	50.2	59.1	69.5	85.1	108.8	149.1	219.2	315.6	405.5
105°	44.0	48.5	54.5	61.9	71.0	85.6	106.7	140.9	197.5	278.8	367.1
107.5°	49.8	54.3	59.5	65.7	74.4	87.6	107.9	138.1	185.5	252.5	329.4
110°	54.1	58.1	62.6	68.6	76.3	89.5	109.2	137.0	179.8	239.0	307.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	59.4	62.7	66.4	71.7	78.7	91.2	110.2	136.6	175.9	229.3	289.5
115°	65.8	68.4	71.3	75.8	82.1	93.9	111.9	136.0	171.0	217.3	268.7
117.5°	71.5	73.6	75.8	79.7	85.9	97.0	114.1	136.2	167.2	208.2	253.6
120°	76.1	77.8	79.8	83.2	88.9	99.9	116.4	136.8	165.4	202.8	244.8
122.5°	79.9	81.0	82.3	85.3	91.0	101.5	117.9	137.3	163.2	197.5	236.3
125°	85.8	86.1	87.2	89.5	94.7	104.9	120.0	138.1	160.5	190.0	224.5
127.5°	89.3	89.8	91.4	94.4	100.0	109.7	123.4	139.5	158.7	183.4	213.1
130°	92.3	92.9	94.9	98.3	104.1	113.4	126.3	141.2	158.2	179.9	206.4
132.5°	93.6	94.6	97.3	101.4	107.7	116.7	128.7	141.9	157.0	175.9	199.6
135°	97.0	97.9	101.1	105.4	111.2	119.8	130.7	142.2	154.8	169.8	189.9
137.5°	101.5	102.2	105.2	109.6	115.3	123.6	132.7	142.8	153.9	165.6	182.1
140°	103.3	104.1	107.6	112.2	117.6	125.6	134.2	143.2	152.7	162.7	177.4
142.5°	106.5	106.9	109.9	114.3	119.3	126.5	134.5	142.8	151.6	160.9	173.7
145°	111.4	111.6	114.2	118.0	122.9	129.4	136.9	144.1	151.8	160.2	170.2
147.5°	115.1	115.4	118.0	121.7	126.2	132.0	138.6	145.1	152.1	159.5	167.5
150°	118.1	118.7	120.7	124.5	128.5	133.4	139.7	145.8	152.1	158.7	165.7
152.5°	121.4	121.7	123.5	126.8	130.6	135.0	140.9	146.3	151.9	157.8	164.0
155°	125.6	125.6	127.3	130.2	133.1	137.1	142.0	146.7	151.2	156.2	161.3
157.5°	129.5	129.4	130.8	133.2	135.7	138.8	143.0	146.9	150.5	154.4	158.8
160°	132.0	131.7	132.8	134.9	137.1	139.7	143.5	146.9	149.9	153.3	156.8
162.5°	134.0	133.8	134.9	136.7	138.5	140.6	144.0	146.8	149.1	151.9	154.9
165°	137.1	136.6	137.5	138.8	140.1	141.8	144.1	146.3	148.1	149.9	152.1
167.5°	139.3	138.9	139.5	140.2	141.0	142.2	144.1	145.7	146.5	147.8	149.4
170°	140.6	140.3	140.6	141.2	141.8	142.6	144.1	145.2	145.8	146.7	147.8
172.5°	141.5	141.0	141.3	141.9	142.2	142.6	143.8	144.8	144.9	145.3	146.2
175°	142.6	142.0	142.4	142.6	142.6	142.6	143.5	144.1	143.8	143.8	144.1
177.5°	143.2	142.7	142.7	142.9	142.7	142.7	143.2	143.4	142.9	142.9	143.2
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6	1296.6
2.5°	1293.6	1295.2	1296.8	1297.5	1297.2	1297.1	1296.8	1296.6
5°	1289.6	1291.9	1294.2	1295.2	1294.9	1294.6	1294.3	1294.0
7.5°	1278.9	1280.9	1282.9	1283.7	1283.4	1283.1	1282.9	1282.5
10°	1268.8	1270.7	1272.7	1273.6	1273.3	1273.0	1272.7	1272.4
12.5°	1256.6	1258.2	1259.7	1260.1	1259.4	1258.7	1257.9	1257.2
15°	1233.9	1235.6	1237.2	1237.5	1236.4	1235.3	1234.1	1233.0
17.5°	1204.8	1206.2	1207.5	1207.8	1207.1	1206.4	1205.7	1205.0
20°	1182.6	1183.4	1184.3	1184.7	1184.7	1184.7	1184.7	1184.7
22.5°	1159.7	1160.7	1161.8	1162.0	1161.3	1160.7	1159.9	1159.3
25°	1123.4	1124.5	1125.7	1125.5	1124.1	1122.7	1121.3	1119.9
27.5°	1081.3	1082.1	1082.9	1083.0	1082.5	1082.0	1081.5	1081.0
30°	1052.4	1053.0	1053.5	1053.6	1053.4	1053.0	1052.8	1052.5
32.5°	1024.9	1025.5	1026.1	1026.2	1025.9	1025.6	1025.3	1025.1
35°	980.5	981.3	982.2	982.6	982.6	982.6	982.6	982.6
37.5°	933.8	934.9	936.0	936.5	936.4	936.3	936.2	936.0
40°	902.2	903.4	904.5	905.3	905.9	906.4	907.0	907.6
42.5°	873.2	874.6	875.9	876.6	876.8	876.9	877.0	877.1
45°	826.4	828.3	830.3	831.4	831.8	832.0	832.3	832.6
47.5°	778.1	781.0	783.9	785.6	786.3	786.8	787.5	788.1
50°	746.0	749.1	752.3	754.2	755.0	755.9	756.8	757.6
52.5°	714.0	717.3	720.6	722.6	723.2	723.8	724.5	725.0
55°	663.4	666.5	669.6	671.7	672.9	674.0	675.1	676.3
57.5°	613.4	617.0	620.6	622.8	623.6	624.4	625.3	626.1
60°	579.2	583.4	587.7	590.2	591.1	591.9	592.8	593.6
62.5°	544.5	549.2	553.9	556.8	557.8	559.0	560.0	561.1
65°	492.8	497.0	501.2	503.9	505.1	506.2	507.4	508.4
67.5°	439.7	444.8	450.0	453.2	454.7	456.2	457.7	459.2
70°	403.5	408.9	414.3	417.8	419.5	421.2	422.9	424.5
72.5°	369.8	375.7	381.5	385.0	386.3	387.5	388.7	390.0
75°	318.9	324.6	330.2	333.8	335.2	336.6	338.0	339.4
77.5°	267.9	274.1	280.4	284.1	285.2	286.3	287.4	288.5
80°	237.4	243.6	249.9	253.6	254.6	255.8	256.9	258.0
82.5°	208.5	214.5	220.5	224.5	226.5	228.5	230.6	232.6
85°	168.8	175.0	181.2	185.5	187.7	190.0	192.2	194.4
87.5°	137.6	144.1	150.7	155.1	157.0	159.0	161.0	163.0
90°	122.4	129.2	136.0	140.8	142.8	144.7	147.0	149.0
92.5°	163.8	156.0	153.1	153.0	151.3	152.5	154.2	155.6
95°	312.4	274.8	245.6	225.5	207.0	200.3	200.0	197.4
97.5°	406.8	382.0	353.4	323.8	307.9	293.7	287.2	285.4
100°	447.6	439.4	415.7	389.6	371.4	352.3	343.3	340.4
102.5°	458.5	473.0	464.4	447.8	428.3	415.2	405.4	403.6
105°	442.0	487.1	505.4	506.1	498.8	491.3	487.5	486.0
107.5°	403.2	461.5	499.7	518.4	524.8	526.5	526.4	525.8
110°	374.7	434.9	480.9	509.0	524.0	531.4	535.4	537.4



TEST NUMBER: P333300-930

CATALOG NUMBER: S125DIP-S1270D365U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	351.3	408.5	454.7	487.1	508.0	519.4	526.4	530.4
115°	321.4	371.1	415.6	450.5	474.7	490.2	499.9	505.4
117.5°	299.4	342.7	381.5	413.7	438.1	454.3	464.2	468.4
120°	287.0	326.4	362.9	391.5	414.5	430.1	439.5	443.5
122.5°	276.3	312.9	345.7	372.6	393.3	407.6	417.1	420.9
125°	261.0	294.9	324.5	348.2	365.7	379.0	386.8	391.0
127.5°	245.2	276.9	304.4	326.8	343.1	355.1	362.7	365.7
130°	236.0	265.3	291.7	313.2	329.0	339.9	347.1	350.2
132.5°	226.2	253.9	278.2	298.8	314.4	325.1	331.6	334.8
135°	212.0	235.5	257.6	276.6	290.7	301.7	308.3	311.4
137.5°	200.4	219.8	238.5	254.7	267.2	277.0	282.8	285.8
140°	193.5	210.1	226.5	240.7	252.5	261.1	266.5	269.1
142.5°	187.5	201.6	215.7	228.1	238.2	245.7	250.9	253.3
145°	180.6	190.9	201.3	210.3	218.4	224.5	228.7	231.0
147.5°	175.0	182.7	190.0	196.4	202.4	206.8	209.1	210.2
150°	172.0	178.4	183.8	189.1	193.8	197.5	198.9	199.5
152.5°	169.7	175.4	180.3	184.4	188.1	190.9	192.2	192.5
155°	166.2	170.9	174.9	178.1	180.9	183.0	183.8	184.1
157.5°	162.8	166.6	169.7	172.2	174.5	176.1	176.9	176.8
160°	160.5	163.4	166.2	168.3	170.3	171.7	172.3	172.0
162.5°	157.9	160.6	163.1	164.9	166.4	167.5	167.7	167.6
165°	154.4	156.5	158.2	159.6	160.8	161.3	161.3	161.3
167.5°	151.1	152.5	153.8	154.8	155.4	155.9	155.6	155.6
170°	149.3	150.1	151.0	151.6	152.1	152.5	152.5	152.1
172.5°	147.2	148.1	148.7	149.0	149.1	149.7	149.2	148.9
175°	145.0	145.0	145.5	145.5	145.5	145.8	145.2	145.0
177.5°	143.4	143.6	143.6	143.6	143.4	143.6	142.9	142.9
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9

(END OF REPORT)