

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: P333119-930

Luminaire Tested: **S125DIP-S375D365U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333119-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S375D365U930-4F0-1E-UDD-D1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 375 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2224.5 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: General Diffuse

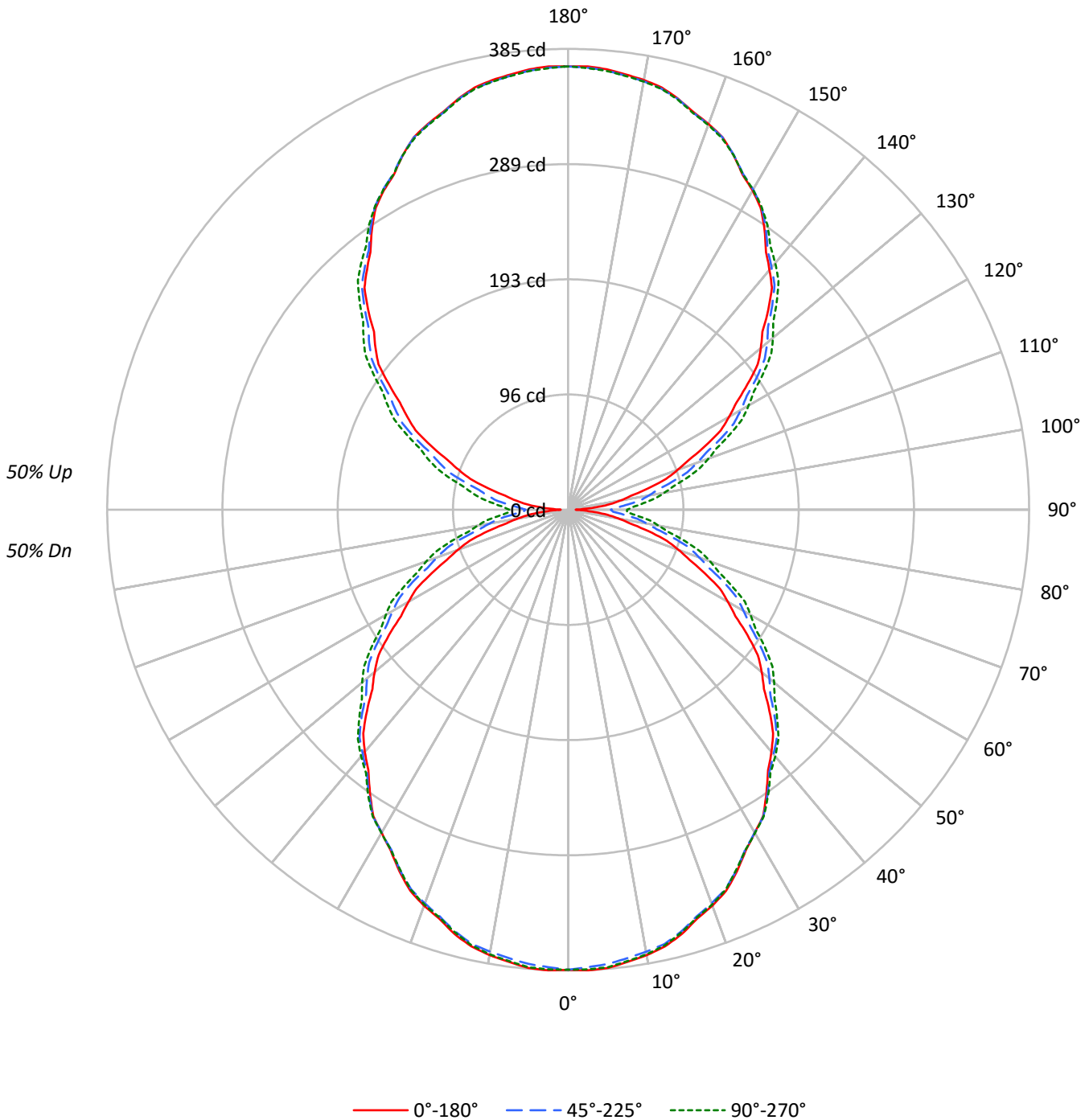
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	47	46	41
2	88	80	74	68	81	74	69	64	63	59	55	52	49	46	42	40	38	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32	28
4	73	62	54	48	67	57	50	45	49	43	39	41	37	33	33	30	28	24
5	67	55	47	41	62	51	44	38	44	38	33	36	32	29	30	27	24	21
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	19	16
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2487	2436	2444
10°	2469	2393	2389
15°	2440	2341	2319
20°	2401	2276	2249
25°	2354	2207	2164
30°	2296	2132	2086
35°	2243	2062	2014
40°	2189	1989	1942
45°	2127	1926	1878
50°	2069	1858	1821
55°	1998	1793	1756
60°	1921	1720	1687
65°	1842	1644	1612
70°	1750	1538	1534
75°	1605	1438	1437
80°	1417	1316	1333
85°	1239	1232	1299



TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.6
10°-20°	103.2	4.6
20°-30°	153.4	6.9
30°-40°	181.7	8.2
40°-50°	187.9	8.4
50°-60°	173.1	7.8
60°-70°	139.9	6.3
70°-80°	93.7	4.2
80°-90°	49.4	2.2
90°-100°	52.1	2.3
100°-110°	93.3	4.2
110°-120°	137.5	6.2
120°-130°	170.9	7.7
130°-140°	186.3	8.4
140°-150°	180.0	8.1
150°-160°	150.6	6.8
160°-170°	100.1	4.5
170°-180°	35.0	1.6
0°-30°	292.9	13.2
0°-40°	474.7	21.3
0°-60°	835.7	37.6
0°-90°	1118.7	50.3
90°-120°	282.9	12.7
90°-150°	820.1	36.9
90°-180°	1106.0	49.7
0°-180°	2224.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	384	384	381	384	384	36
15°	367	367	365	367	366	103
25°	334	334	332	334	332	153
35°	289	291	290	291	291	181
45°	238	242	244	246	247	183
55°	183	189	195	199	200	163
65°	126	134	144	149	151	125
75°	69	79	91	98	101	74
85°	21	33	46	54	58	22
90°	6	21	36	45	49	5
95°	24	34	50	60	63	24
105°	69	77	90	98	102	74
115°	126	131	141	147	149	125
125°	183	184	192	197	199	164
135°	236	238	241	245	246	182
145°	286	287	288	289	290	179
155°	327	327	327	328	327	150
165°	355	355	355	356	354	100
175°	369	368	368	370	368	35
180°	370	370	370	370	370	



TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.2	385.1	385.0	384.8	384.7	384.4	383.9	383.4	383.0	382.5	383.0
5°	384.3	384.2	384.0	383.8	383.7	383.3	382.7	382.1	381.6	380.9	381.6
7.5°	380.9	380.9	380.8	380.7	380.7	380.3	379.8	379.1	378.5	377.9	378.5
10°	377.9	377.9	377.9	377.9	377.9	377.6	376.9	376.3	375.6	374.9	375.5
12.5°	373.7	373.8	373.8	373.9	374.0	373.7	373.2	372.7	372.1	371.6	372.0
15°	367.0	367.0	367.1	367.3	367.4	367.0	366.5	365.9	365.3	364.8	365.3
17.5°	358.2	358.4	358.6	358.7	358.9	358.7	358.2	357.5	356.9	356.4	356.8
20°	352.0	352.1	352.3	352.5	352.6	352.4	351.8	351.2	350.7	350.0	350.3
22.5°	344.7	345.0	345.3	345.6	345.9	345.7	345.0	344.4	343.7	343.1	343.4
25°	333.5	333.7	333.9	334.2	334.4	334.4	333.9	333.4	332.8	332.3	332.6
27.5°	321.0	321.3	321.7	322.0	322.5	322.4	321.8	321.2	320.7	320.1	320.2
30°	311.6	312.1	312.6	313.2	313.6	313.6	313.2	312.6	312.1	311.6	311.8
32.5°	303.2	303.6	304.0	304.5	304.9	304.9	304.6	304.2	303.9	303.5	303.6
35°	288.6	289.2	289.8	290.4	291.0	291.1	290.9	290.7	290.4	290.2	290.4
37.5°	274.1	274.6	275.2	275.7	276.2	276.5	276.4	276.3	276.2	276.1	276.5
40°	264.2	264.8	265.5	266.1	266.8	267.1	267.0	266.9	266.8	266.8	267.1
42.5°	253.3	254.1	255.0	255.9	256.7	257.3	257.5	257.6	257.9	258.0	258.4
45°	237.7	238.7	239.6	240.5	241.4	242.1	242.6	243.0	243.4	243.8	244.3
47.5°	221.8	222.7	223.6	224.5	225.3	226.1	226.8	227.5	228.2	228.9	229.8
50°	211.0	211.9	212.9	213.8	214.7	215.6	216.5	217.4	218.3	219.3	220.2
52.5°	199.6	200.6	201.8	202.9	204.1	205.1	206.3	207.4	208.6	209.6	210.7
55°	182.7	184.1	185.4	186.8	188.1	189.5	190.8	192.1	193.5	194.8	195.8
57.5°	165.6	167.1	168.8	170.4	172.0	173.6	175.1	176.7	178.2	179.7	180.8
60°	154.1	155.8	157.4	159.1	160.8	162.5	164.1	165.8	167.5	169.2	170.4
62.5°	142.9	144.6	146.3	148.0	149.7	151.4	153.2	155.0	156.9	158.7	160.0
65°	125.9	127.8	129.7	131.6	133.5	135.5	137.5	139.6	141.5	143.6	144.8
67.5°	109.7	111.6	113.4	115.3	117.2	119.1	121.2	123.2	125.2	127.3	128.8
70°	98.0	99.9	101.8	103.7	105.7	107.7	109.9	112.1	114.2	116.4	118.1
72.5°	86.5	88.5	90.5	92.5	94.5	96.7	99.1	101.4	103.8	106.2	107.9
75°	69.3	71.5	73.7	75.8	78.0	80.5	83.2	85.9	88.5	91.2	92.9
77.5°	52.8	55.4	57.9	60.3	62.9	65.4	68.0	70.6	73.1	75.7	77.6
80°	42.6	45.1	47.6	50.1	52.6	55.3	58.1	61.0	63.8	66.7	68.6
82.5°	33.3	35.9	38.6	41.2	43.8	46.6	49.5	52.4	55.4	58.2	60.0
85°	20.7	23.5	26.3	29.0	31.8	34.7	37.6	40.5	43.5	46.3	48.2
87.5°	11.8	14.6	17.4	20.1	22.9	25.8	28.7	31.6	34.7	37.6	39.5
90°	6.3	9.5	12.7	15.9	19.1	22.3	25.6	28.9	32.2	35.5	37.7
92.5°	12.4	15.2	18.1	20.9	23.7	26.9	30.3	33.8	37.3	40.8	43.0
95°	23.6	25.9	28.2	30.6	32.9	35.7	39.2	42.7	46.2	49.7	52.0
97.5°	35.5	37.6	39.6	41.6	43.6	46.4	50.1	53.7	57.3	61.0	63.1
100°	44.5	46.2	48.0	49.7	51.5	54.1	57.6	61.1	64.7	68.2	70.5
102.5°	54.1	56.0	57.9	59.8	61.6	64.1	67.1	70.1	73.2	76.2	78.5
105°	69.1	70.8	72.4	74.1	75.7	78.0	80.9	83.8	86.7	89.6	91.6
107.5°	85.7	87.2	88.6	90.1	91.6	93.6	96.3	99.1	101.7	104.4	106.3
110°	97.2	98.5	99.8	101.1	102.5	104.4	106.9	109.5	112.0	114.5	116.3



TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	109.2	110.1	111.0	112.0	113.0	114.8	117.3	119.8	122.3	124.8	126.5
115°	126.5	127.3	128.2	129.0	129.8	131.4	133.7	136.0	138.4	140.6	142.0
117.5°	143.8	144.3	144.8	145.4	145.9	147.2	149.4	151.5	153.7	155.9	157.4
120°	154.9	155.5	156.0	156.6	157.2	158.5	160.5	162.4	164.4	166.4	167.9
122.5°	166.6	166.8	167.1	167.3	167.5	168.6	170.6	172.7	174.7	176.8	178.1
125°	182.8	183.0	183.4	183.7	183.9	185.0	186.7	188.5	190.2	191.9	193.1
127.5°	199.7	199.8	199.9	200.1	200.2	201.0	202.4	203.9	205.4	206.8	208.0
130°	210.0	210.3	210.5	210.8	211.0	211.7	213.0	214.3	215.6	217.0	218.1
132.5°	220.1	220.6	221.1	221.7	222.2	222.8	223.7	224.6	225.5	226.3	227.5
135°	236.4	236.8	237.1	237.3	237.7	238.1	238.8	239.5	240.1	240.8	241.8
137.5°	251.8	252.2	252.4	252.7	253.1	253.4	253.9	254.3	254.7	255.1	256.2
140°	261.5	261.8	262.1	262.4	262.8	263.0	263.3	263.6	263.8	264.2	265.2
142.5°	271.3	271.6	271.7	272.0	272.1	272.4	272.6	273.0	273.2	273.5	274.3
145°	285.9	286.1	286.3	286.5	286.7	286.8	287.0	287.2	287.4	287.6	288.0
147.5°	299.1	299.2	299.3	299.5	299.6	299.8	299.9	300.1	300.2	300.4	300.7
150°	308.0	308.0	307.9	307.9	307.8	307.9	308.1	308.4	308.7	308.9	308.9
152.5°	315.4	315.5	315.6	315.7	315.8	315.8	316.0	316.1	316.2	316.3	316.4
155°	326.8	326.8	326.8	326.8	326.8	326.8	326.9	326.9	327.0	327.1	327.3
157.5°	336.9	336.8	336.6	336.5	336.4	336.3	336.4	336.5	336.5	336.6	336.8
160°	342.9	342.8	342.5	342.3	342.2	342.1	342.2	342.2	342.3	342.3	342.6
162.5°	348.2	348.1	348.0	347.8	347.6	347.6	347.6	347.6	347.6	347.6	348.0
165°	355.3	355.1	355.1	354.9	354.8	354.7	354.8	354.9	355.0	355.0	355.3
167.5°	361.3	361.0	360.8	360.5	360.3	360.1	360.1	360.1	360.1	360.1	360.5
170°	364.5	364.3	364.0	363.8	363.5	363.4	363.4	363.4	363.4	363.4	363.8
172.5°	366.8	366.6	366.3	366.1	365.8	365.7	365.7	365.7	365.7	365.7	366.1
175°	369.4	369.2	368.9	368.7	368.4	368.3	368.3	368.3	368.3	368.3	368.7
177.5°	370.7	370.6	370.3	370.1	369.9	369.8	369.7	369.7	369.7	369.6	369.9
180°	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3



TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	383.4	383.9	384.4	384.6	384.5	384.5	384.4	384.3
5°	382.3	382.9	383.6	383.9	383.8	383.8	383.7	383.6
7.5°	379.1	379.7	380.3	380.5	380.4	380.3	380.3	380.2
10°	376.1	376.7	377.2	377.5	377.4	377.3	377.2	377.2
12.5°	372.5	372.9	373.4	373.5	373.3	373.1	372.8	372.7
15°	365.7	366.2	366.7	366.8	366.5	366.2	365.8	365.5
17.5°	357.2	357.5	357.9	358.0	357.8	357.6	357.4	357.2
20°	350.6	350.8	351.1	351.1	351.1	351.1	351.1	351.1
22.5°	343.7	344.1	344.4	344.5	344.2	344.1	343.8	343.6
25°	333.0	333.4	333.7	333.6	333.2	332.8	332.4	332.0
27.5°	320.5	320.7	321.0	321.1	320.9	320.7	320.6	320.4
30°	311.9	312.1	312.3	312.3	312.3	312.2	312.1	312.0
32.5°	303.8	303.9	304.1	304.2	304.1	304.0	303.9	303.9
35°	290.7	290.9	291.1	291.2	291.2	291.2	291.2	291.2
37.5°	276.8	277.1	277.4	277.6	277.6	277.5	277.5	277.4
40°	267.4	267.7	268.2	268.4	268.6	268.7	268.9	269.0
42.5°	258.9	259.3	259.7	259.8	259.9	259.9	259.9	260.0
45°	245.0	245.6	246.1	246.5	246.5	246.6	246.7	246.8
47.5°	230.6	231.5	232.4	232.8	233.1	233.3	233.4	233.6
50°	221.1	222.1	223.0	223.6	223.8	224.0	224.3	224.5
52.5°	211.7	212.6	213.6	214.2	214.3	214.6	214.7	214.9
55°	196.7	197.5	198.5	199.1	199.4	199.7	200.2	200.5
57.5°	181.8	182.9	183.9	184.6	184.8	185.1	185.4	185.6
60°	171.7	172.9	174.2	175.0	175.2	175.5	175.7	175.9
62.5°	161.4	162.8	164.2	165.0	165.3	165.7	166.0	166.3
65°	146.1	147.3	148.5	149.4	149.7	150.0	150.4	150.7
67.5°	130.4	131.8	133.4	134.4	134.8	135.3	135.7	136.1
70°	119.6	121.2	122.8	123.8	124.3	124.8	125.3	125.9
72.5°	109.7	111.4	113.1	114.1	114.5	114.9	115.2	115.6
75°	94.6	96.2	97.9	98.9	99.4	99.8	100.2	100.6
77.5°	79.4	81.3	83.1	84.2	84.5	84.9	85.2	85.5
80°	70.4	72.2	74.0	75.2	75.5	75.8	76.1	76.5
82.5°	61.8	63.6	65.4	66.5	67.2	67.8	68.3	69.0
85°	50.1	51.9	53.7	55.0	55.6	56.3	57.0	57.6
87.5°	41.5	43.5	45.5	46.8	47.5	48.1	48.7	49.3
90°	40.0	42.2	44.5	46.0	46.8	47.5	48.3	49.1
92.5°	45.3	47.6	49.9	51.4	52.1	52.8	53.6	54.3
95°	54.3	56.6	58.9	60.3	61.1	61.8	62.5	63.2
97.5°	65.3	67.5	69.7	71.1	71.7	72.4	73.1	73.7
100°	72.9	75.2	77.5	79.0	79.7	80.3	80.9	81.5
102.5°	80.9	83.2	85.5	87.0	87.6	88.4	89.0	89.7
105°	93.7	95.8	97.8	99.2	100.0	100.8	101.6	102.4
107.5°	108.1	110.0	111.9	113.0	113.5	114.1	114.5	115.0
110°	118.1	119.8	121.6	122.8	123.4	123.8	124.4	124.9



TEST NUMBER: P333119-930

CATALOG NUMBER: S125DIP-S375D365U930-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	128.1	129.7	131.3	132.3	132.8	133.3	133.8	134.2
115°	143.5	145.0	146.4	147.3	147.8	148.2	148.6	149.1
117.5°	158.8	160.3	161.8	162.7	163.0	163.3	163.6	164.0
120°	169.3	170.7	172.1	172.9	173.2	173.4	173.7	173.9
122.5°	179.4	180.7	182.0	182.8	183.0	183.4	183.7	183.9
125°	194.4	195.6	196.8	197.5	198.0	198.3	198.6	199.0
127.5°	209.1	210.3	211.5	212.3	212.6	213.0	213.4	213.7
130°	219.2	220.3	221.4	222.1	222.4	222.7	223.0	223.2
132.5°	228.6	229.7	230.8	231.5	231.6	231.8	232.0	232.1
135°	243.0	244.0	245.1	245.7	245.9	246.1	246.2	246.4
137.5°	257.2	258.3	259.3	259.9	259.9	259.9	260.0	260.0
140°	266.2	267.3	268.3	268.9	268.9	268.9	268.9	268.9
142.5°	275.2	276.1	276.9	277.4	277.4	277.4	277.4	277.4
145°	288.5	288.9	289.3	289.5	289.7	289.8	290.0	290.1
147.5°	300.9	301.3	301.5	301.5	301.3	300.9	300.7	300.4
150°	308.9	308.9	308.9	308.9	308.8	308.8	308.8	308.7
152.5°	316.6	316.7	316.9	316.9	316.7	316.4	316.3	316.0
155°	327.6	327.8	328.1	328.1	327.8	327.4	327.1	326.8
157.5°	337.0	337.4	337.6	337.5	337.1	336.6	336.2	335.8
160°	342.8	343.1	343.3	343.3	343.0	342.7	342.3	342.0
162.5°	348.2	348.5	348.9	348.9	348.5	348.1	347.7	347.3
165°	355.6	355.8	356.0	356.0	355.6	355.2	354.8	354.4
167.5°	360.9	361.3	361.7	361.7	361.3	360.9	360.4	360.1
170°	364.1	364.5	364.9	364.8	364.4	363.9	363.5	363.1
172.5°	366.5	366.8	367.2	367.2	366.8	366.4	366.0	365.6
175°	369.0	369.4	369.8	369.7	369.3	368.8	368.4	367.9
177.5°	370.2	370.6	370.8	370.8	370.5	370.1	369.7	369.3
180°	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3

(END OF REPORT)