

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: P334965

Luminaire Tested: **S125IP-S365U830-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334965
TEST 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: S125IP-S365U830-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 365 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

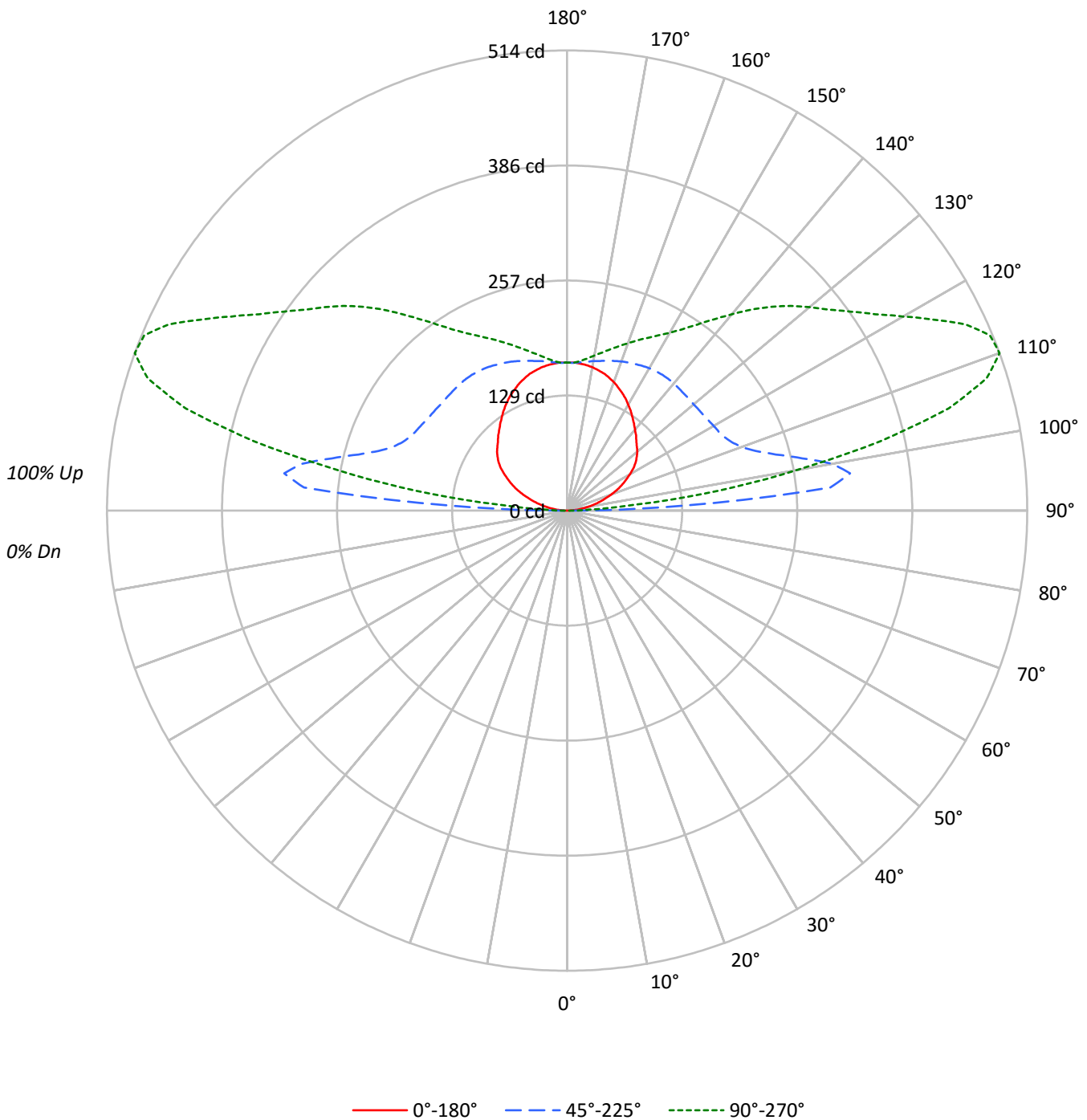
Lumens per Lamp: N/A
Luminaire Lumens: 1241.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 11.4
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: P334965
CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

Luminous Intensity Polar Plot





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CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P334965

CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.7	0.1
90°-100°	120.2	9.7
100°-110°	259.2	20.9
110°-120°	241.6	19.5
120°-130°	195.7	15.8
130°-140°	157.1	12.7
140°-150°	118.5	9.5
150°-160°	83.5	6.7
160°-170°	49.2	4.0
170°-180°	16.0	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	621.0	50.0
90°-150°	1092.3	88.0
90°-180°	1241.0	99.9
0°-180°	1241.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	3	5	7	8	1
95°	11	32	295	134	78	11
105°	38	53	242	476	441	40
115°	67	81	194	418	492	66
125°	93	109	186	332	387	83
135°	109	131	184	279	322	85
145°	127	146	185	231	254	80
155°	145	156	180	204	213	67
165°	159	163	173	184	186	45
175°	165	165	166	168	168	16
180°	165	165	165	165	165	



TEST NUMBER: P334965

CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	0.3	0.7	1.3	2.0	2.7	3.3	3.7	4.3	4.7	5.3	5.7
92.5°	5.0	6.0	9.3	14.3	21.3	33.3	56.0	93.9	135.2	132.9	107.3
95°	11.0	11.3	14.0	17.7	25.0	40.0	75.6	148.9	240.8	295.1	288.8
97.5°	17.0	17.3	19.3	23.0	29.6	40.6	65.3	121.6	220.9	318.8	360.8
100°	23.3	24.0	25.3	29.0	35.3	45.3	64.6	107.9	191.9	300.8	384.1
102.5°	30.3	30.6	31.6	35.6	41.3	51.0	67.6	102.3	169.9	269.2	370.1
105°	37.6	37.6	39.3	42.6	48.0	57.3	72.0	101.6	157.2	241.5	337.1
107.5°	44.6	45.3	47.0	49.6	55.3	63.6	77.9	103.9	150.6	220.9	305.8
110°	52.3	53.0	54.3	57.3	62.3	71.0	84.6	107.6	147.9	207.2	279.8



TEST NUMBER: P334965

CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	60.0	60.6	61.6	64.6	69.6	77.9	90.9	112.3	147.9	199.2	260.5
115°	67.3	68.0	69.0	72.0	76.9	85.3	97.6	116.9	148.9	193.9	247.5
117.5°	73.9	74.9	75.9	78.9	84.6	92.6	104.3	122.3	150.6	190.9	238.8
120°	80.6	81.6	82.9	85.9	91.6	99.9	111.6	127.6	153.2	188.9	231.8
122.5°	87.6	88.3	89.3	92.3	98.6	106.9	118.6	133.6	155.6	187.2	225.8
125°	93.3	93.9	95.6	98.6	104.9	113.6	124.6	138.9	158.2	185.9	220.5
127.5°	97.9	98.9	100.9	104.6	111.3	119.9	130.6	143.9	161.2	185.2	215.5
130°	102.3	103.3	105.9	110.3	117.3	125.9	136.2	148.9	163.9	184.5	210.5
132.5°	105.6	106.9	110.3	115.3	122.6	131.2	141.6	153.2	166.9	184.5	206.5
135°	109.3	110.6	114.6	119.9	126.9	135.9	146.2	157.2	169.6	184.5	203.5
137.5°	113.9	114.9	118.6	123.9	130.9	140.2	149.6	160.2	172.2	184.9	200.5
140°	117.9	118.9	122.9	128.2	134.6	143.6	153.2	163.2	173.9	185.2	198.5
142.5°	122.6	123.2	126.9	132.2	138.2	146.6	155.6	164.9	174.9	185.5	196.9
145°	127.2	127.9	131.2	135.9	141.9	149.6	158.2	166.6	175.5	185.2	195.2
147.5°	132.2	132.6	135.6	139.9	145.2	152.2	159.9	167.6	175.9	184.5	193.5
150°	136.6	137.2	139.6	143.9	148.6	154.2	161.6	168.6	175.9	183.5	191.5
152.5°	141.2	141.6	143.6	147.2	151.6	156.6	163.2	169.2	175.5	182.2	189.2
155°	145.2	145.2	147.2	150.6	153.9	158.6	164.2	169.6	174.9	180.5	186.5
157.5°	148.9	148.9	150.6	153.6	156.6	160.2	165.2	169.9	174.2	178.9	184.2
160°	152.6	152.2	153.6	155.9	158.6	161.6	165.9	169.9	173.2	177.2	181.2
162.5°	155.6	155.2	156.6	158.6	160.6	162.9	166.6	169.6	172.2	175.2	178.5
165°	158.6	157.9	158.9	160.6	161.9	163.9	166.6	169.2	171.2	173.2	175.9
167.5°	160.6	160.2	160.9	161.9	162.9	164.2	166.6	168.6	169.6	171.2	173.2
170°	162.6	162.2	162.6	163.2	163.9	164.9	166.6	167.9	168.6	169.6	170.9
172.5°	163.9	163.2	163.6	164.2	164.6	164.9	166.2	167.2	167.2	167.6	168.6
175°	164.9	164.2	164.6	164.9	164.9	164.9	165.9	166.6	166.2	166.2	166.6
177.5°	165.6	164.9	164.9	165.2	164.9	164.9	165.6	165.9	165.2	165.2	165.6
180°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2



TEST NUMBER: P334965

CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	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
90°	6.0	6.3	6.7	7.3	7.3	7.3	7.7	7.7
92.5°	72.3	52.0	38.6	32.3	27.0	26.0	25.3	24.6
95°	239.5	188.9	147.9	119.9	96.3	86.3	83.6	78.3
97.5°	343.4	303.1	261.8	221.8	201.9	184.5	175.5	171.6
100°	409.7	393.4	359.1	324.4	301.5	277.5	265.2	259.8
102.5°	432.0	448.7	436.7	416.1	391.1	375.7	362.1	358.4
105°	417.1	462.7	477.3	473.7	463.0	452.0	445.4	441.4
107.5°	386.4	446.7	482.0	496.7	499.7	498.0	494.7	491.3
110°	351.8	415.1	462.0	490.3	505.3	511.7	514.0	514.0



TEST NUMBER: P334965

CATALOG NUMBER: S125IP-S365U830-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	324.4	383.7	431.4	466.0	489.7	501.7	508.3	511.3
115°	302.5	354.1	399.7	436.0	462.0	478.0	487.3	491.7
117.5°	287.1	332.8	372.7	407.1	433.4	450.0	459.4	462.0
120°	275.1	315.1	351.8	381.1	405.7	421.7	430.7	433.4
122.5°	266.2	302.5	334.1	361.1	382.4	396.7	405.7	408.1
125°	257.5	291.5	320.4	344.4	363.1	376.7	384.1	387.4
127.5°	248.5	280.8	308.1	330.8	347.8	360.1	367.1	368.4
130°	240.2	269.5	295.5	317.1	333.8	344.8	351.4	353.4
132.5°	231.8	258.8	281.8	302.5	319.1	330.1	336.1	338.4
135°	224.8	247.8	269.2	288.1	302.8	313.8	319.8	321.8
137.5°	218.5	237.8	256.2	272.8	286.1	296.5	302.1	304.5
140°	213.5	229.2	244.5	258.5	270.8	279.5	284.5	286.1
142.5°	209.2	221.8	234.5	246.2	256.2	263.2	267.8	269.2
145°	205.5	215.9	226.2	235.2	243.2	248.8	252.5	253.8
147.5°	201.9	210.5	218.9	225.8	232.5	237.2	239.5	240.2
150°	198.9	206.2	212.5	218.5	223.5	227.5	228.8	229.2
152.5°	195.5	201.9	207.5	211.9	215.9	218.9	220.2	220.5
155°	192.2	197.5	202.2	205.9	209.2	211.5	212.5	212.9
157.5°	188.9	193.5	197.2	200.2	202.9	204.9	205.9	205.9
160°	185.5	188.9	192.2	194.5	196.9	198.5	199.2	198.9
162.5°	181.9	184.9	187.5	189.5	191.2	192.5	192.5	192.5
165°	178.5	180.9	182.9	184.5	185.9	186.5	186.5	186.5
167.5°	175.2	176.9	178.5	179.9	180.5	181.2	180.9	180.9
170°	172.5	173.5	174.5	175.2	175.9	176.2	176.2	175.9
172.5°	169.6	170.6	171.2	171.6	171.6	172.2	171.6	171.2
175°	167.6	167.6	168.2	168.2	168.2	168.6	167.9	167.6
177.5°	165.9	166.2	166.2	166.2	165.9	166.2	165.2	165.2
180°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2

(END OF REPORT)