

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P1219491

Luminaire Tested: **LDSQA4A15935D010TE LAR25NF 4LSQA1H 30°**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1219491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26800)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15935D010TE LAR25NF 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

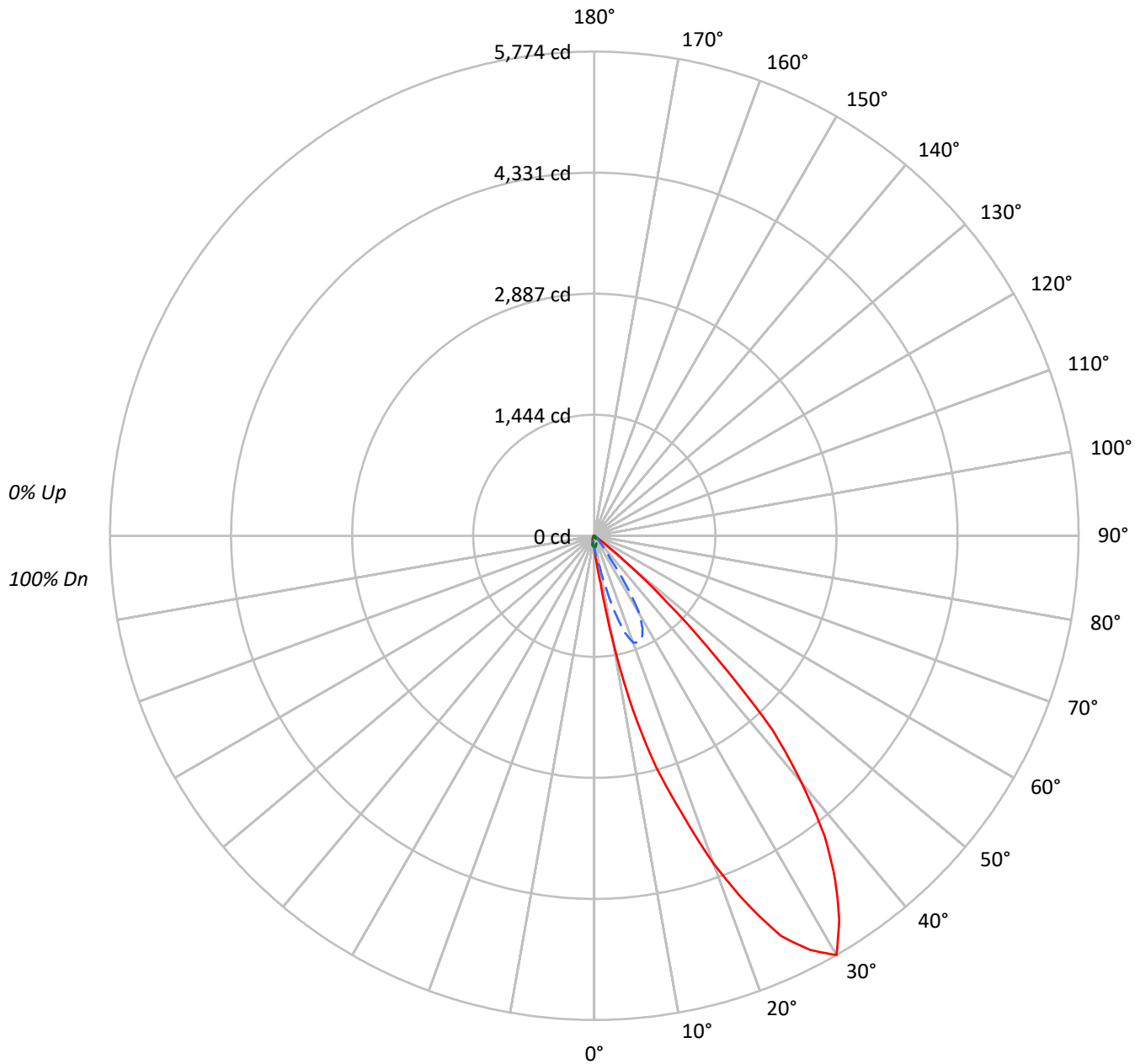
Lumens per Lamp: N/A
Luminaire Lumens: 1391.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.59 / 1.18
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	109	106	104	110	107	105	102		103	101	99			99	98	96			96
2	106	100	95	91	103	98	94	90		95	91	88			92	89	86			89
3	99	91	86	81	97	90	85	80		87	83	79			85	81	78			82
4	93	84	77	72	91	82	76	72		80	75	71			78	73	70			76
5	86	77	70	64	85	76	69	64		74	68	64			72	67	63			70
6	81	70	63	58	79	69	63	58		68	62	57			66	61	57			65
7	76	64	57	52	74	64	57	52		62	56	52			61	55	51			60
8	71	59	52	47	69	59	52	47		57	51	47			56	51	47			55
9	66	55	48	43	65	54	47	43		53	47	43			52	46	42			51
10	62	50	44	39	61	50	43	39		49	43	39			48	43	39			47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14066	14066	14066
5°	31148	13313	9355
10°	124674	11558	7811
15°	287379	9197	6860
20°	428979	6526	6124
25°	562649	4350	5451
30°	645881	2752	4765
35°	592202	1750	4116
40°	485639	1138	3503
45°	281540	795	2836
50°	79802	588	2336
55°	7313	557	1959
60°	1124	639	1628
65°	298	596	1169
70°	368	736	935
75°	487	973	973
80°	0	1450	725
85°	0	2890	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.5
10°-20°	185.0	13.3
20°-30°	450.7	32.4
30°-40°	488.4	35.1
40°-50°	221.3	15.9
50°-60°	17.1	1.2
60°-70°	3.6	0.3
70°-80°	2.6	0.2
80°-90°	1.7	0.1
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°	656.3	47.2
0°-40°	1144.7	82.3
0°-60°	1383.1	99.4
0°-90°	1391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	320	236	137	103	96	58
15°	2865	937	92	66	68	833
25°	5264	1346	41	40	51	2399
35°	5008	342	15	23	35	3080
45°	2055	43	6	13	21	1622
55°	43	6	3	8	12	99
65°	1	2	3	5	5	2
75°	1	2	3	4	3	1
85°	0	2	3	2	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2
2.5°	217.6	213.7	215.6	210.5	207.2	204.6	205.9	204.6	196.3	194.3	187.9
5°	320.3	314.4	314.4	303.4	291.9	284.7	284.7	276.3	258.3	249.9	236.3
7.5°	574.0	562.3	552.6	518.5	473.9	448.7	442.2	406.8	361.0	331.8	297.6
10°	1267.4	1219.0	1184.7	1095.6	976.2	902.0	870.3	747.6	601.7	491.9	392.5
12.5°	2131.3	2065.3	2005.3	1859.4	1687.7	1570.8	1508.2	1327.4	1044.0	841.3	629.4
15°	2865.4	2794.3	2723.3	2545.7	2364.3	2262.9	2148.0	1908.5	1534.0	1246.1	937.4
17.5°	3467.7	3427.7	3354.7	3094.5	2866.0	2707.7	2588.4	2275.2	1889.8	1561.1	1211.9
20°	4161.1	4062.4	3931.9	3616.2	3303.7	3105.5	2937.6	2556.1	2110.6	1732.9	1357.1
22.5°	4744.8	4674.4	4487.2	4070.7	3611.0	3441.8	3236.5	2777.5	2252.6	1805.9	1373.9
25°	5263.8	5153.4	4918.4	4423.2	3952.6	3664.6	3412.8	2897.6	2304.9	1811.0	1346.1
27.5°	5568.0	5423.9	5147.6	4607.9	4070.7	3752.4	3473.5	2918.2	2272.0	1742.6	1244.8
30°	5773.9	5487.3	5181.9	4609.8	4033.3	3707.8	3418.7	2814.3	2135.1	1586.3	1074.3
32.5°	5434.3	5268.4	4976.5	4426.5	3829.2	3511.6	3224.3	2588.9	1921.4	1354.5	747.6
35°	5007.5	4873.3	4619.5	4073.3	3523.2	3223.6	2918.9	2299.8	1643.1	931.0	342.1
37.5°	4511.7	4406.4	4133.3	3634.3	3150.1	2856.9	2551.5	1960.1	1157.0	461.6	207.9
40°	3840.2	3751.1	3527.1	3126.1	2680.0	2401.1	2119.6	1466.2	628.2	257.6	135.6
42.5°	3156.5	3081.6	2877.5	2530.8	2139.0	1909.1	1661.2	893.6	312.4	162.1	75.5
45°	2055.0	1961.4	1851.7	1692.8	1499.2	1357.8	1065.3	431.2	185.3	90.4	43.3
47.5°	1178.3	1116.3	936.1	738.6	599.8	547.5	398.4	200.8	102.0	52.3	26.4
50°	529.5	489.4	410.7	334.4	242.2	189.2	160.8	100.7	50.4	28.4	18.1
52.5°	130.4	133.0	125.9	110.4	98.1	83.3	72.3	47.1	26.4	17.4	11.6
55°	43.3	43.9	40.0	38.1	34.8	32.3	29.7	21.3	16.1	15.5	5.8
57.5°	15.5	15.5	16.1	14.8	14.2	13.6	12.9	11.0	9.7	5.8	3.3
60°	5.8	5.8	5.8	6.4	6.4	6.4	7.1	6.4	4.6	3.3	2.6
62.5°	2.6	2.6	2.6	2.6	3.3	3.3	3.9	3.3	2.6	2.6	2.0
65°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
77.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0
80°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0
82.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	2.0
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2
2.5°	181.5	177.5	169.8	163.9	159.5	158.8	154.9	148.5	145.9	141.4	137.5
5°	223.3	213.7	201.5	189.8	181.5	176.9	163.4	151.1	143.9	136.9	130.4
7.5°	268.6	246.6	225.3	206.6	195.0	187.9	171.8	151.8	138.8	128.5	120.1
10°	325.4	280.2	243.4	214.3	198.9	189.2	169.8	145.9	129.8	117.5	109.1
12.5°	455.2	331.8	260.2	218.2	198.9	185.3	162.1	138.2	120.1	105.2	96.2
15°	677.3	463.5	308.6	220.2	192.4	176.9	150.5	125.2	107.2	91.7	83.3
17.5°	886.4	610.1	385.4	233.7	188.5	164.6	134.9	110.4	91.7	76.8	69.7
20°	995.0	683.1	428.1	244.0	182.1	149.1	116.8	94.2	76.2	63.3	57.4
22.5°	997.5	676.7	407.4	220.2	158.2	127.8	100.1	77.5	62.0	51.0	46.5
25°	936.1	598.5	335.1	171.8	127.8	107.2	83.3	63.3	48.4	40.7	37.4
27.5°	820.6	484.2	247.3	123.9	100.1	85.2	65.2	48.4	36.8	31.7	29.7
30°	634.7	299.6	136.9	91.7	75.5	64.0	47.1	32.3	27.7	24.6	23.3
32.5°	315.1	146.5	96.8	65.2	51.7	40.7	29.7	23.9	21.3	19.4	18.7
35°	171.1	105.2	60.7	39.4	31.0	25.8	20.0	16.8	15.5	14.8	14.8
37.5°	119.4	62.7	36.8	23.9	19.4	17.4	14.2	12.3	11.6	11.6	11.6
40°	65.8	37.4	22.6	15.5	12.9	11.6	9.7	9.0	9.0	9.0	9.7
42.5°	38.1	23.3	15.5	11.0	9.0	8.4	7.1	6.4	7.1	7.1	7.7
45°	24.6	17.4	10.3	7.7	6.4	5.8	5.1	5.1	5.8	5.8	6.4
47.5°	17.4	12.3	7.1	5.1	3.9	3.9	3.9	3.9	4.6	5.1	5.8
50°	10.3	6.4	3.9	3.3	2.6	2.6	2.6	3.3	3.9	3.9	4.6
52.5°	5.8	3.9	2.6	2.6	2.0	2.0	2.6	2.6	3.3	3.9	4.6
55°	3.3	2.6	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3	3.9
57.5°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3	3.3
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3	3.3
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	2.6	2.6	3.3
65°	2.0	2.0	2.0	2.6	2.0	2.6	2.6	2.6	2.6	2.6	3.3
67.5°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3
70°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3
72.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3
75°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	2.0	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2
2.5°	136.2	131.7	128.5	127.2	124.6	125.2	123.4	122.1	118.1	118.1	115.5
5°	125.9	120.1	116.2	114.2	111.7	111.1	109.1	107.2	103.3	102.7	100.7
7.5°	114.9	109.1	104.5	102.7	100.1	99.4	96.8	95.5	92.4	91.7	89.7
10°	103.3	96.8	93.0	91.1	88.4	88.4	86.5	85.2	82.7	82.7	81.4
12.5°	91.1	85.2	82.7	80.1	78.8	78.8	77.5	76.2	74.2	74.8	74.2
15°	78.1	73.6	71.0	69.7	69.1	69.1	68.4	67.8	66.5	67.8	66.5
17.5°	65.8	62.7	60.7	60.1	59.4	59.4	59.4	60.1	59.4	60.7	60.7
20°	54.3	51.7	50.4	50.4	49.7	51.0	51.0	52.3	52.3	54.3	54.8
22.5°	44.6	42.6	42.0	42.0	42.0	43.3	43.9	45.2	45.8	47.8	49.1
25°	35.5	34.8	34.8	34.8	35.5	36.8	38.1	39.4	40.0	42.6	43.3
27.5°	29.0	28.4	29.0	29.0	29.7	31.7	33.0	34.3	35.5	37.4	38.7
30°	23.3	23.3	23.9	24.6	25.1	26.4	28.4	29.7	31.0	33.0	34.3
32.5°	18.7	19.4	20.0	20.7	20.7	22.6	23.9	25.8	26.4	28.4	29.7
35°	15.5	16.1	16.8	17.4	17.4	19.4	20.7	22.0	23.3	24.6	25.8
37.5°	12.3	12.9	14.2	14.8	14.8	16.8	17.4	18.7	20.0	21.3	22.6
40°	10.3	11.0	12.3	12.3	12.9	14.2	14.8	16.1	17.4	18.7	20.0
42.5°	8.4	9.0	10.3	11.0	11.0	12.3	12.9	14.2	14.8	16.1	16.8
45°	7.7	7.7	9.0	9.0	9.7	10.3	11.6	12.3	12.9	14.2	14.8
47.5°	6.4	7.1	7.7	8.4	8.4	9.0	9.7	10.3	11.0	12.3	12.9
50°	5.1	5.8	7.1	7.1	7.1	8.4	9.0	9.7	9.7	10.3	11.0
52.5°	5.1	5.1	5.8	6.4	6.4	7.1	7.7	8.4	8.4	9.0	9.7
55°	4.6	4.6	5.1	5.8	5.8	6.4	7.1	7.1	7.7	7.7	8.4
57.5°	3.9	4.6	5.1	5.1	5.1	5.8	6.4	6.4	7.1	7.1	7.7
60°	3.9	4.6	4.6	5.1	5.1	5.8	5.8	5.8	6.4	6.4	6.4
62.5°	3.9	3.9	4.6	4.6	4.6	5.1	5.1	5.8	5.8	5.8	5.8
65°	3.9	3.9	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1
67.5°	3.3	3.9	3.9	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	3.3	3.3	3.9	3.9	3.9	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.3	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.3	3.3
77.5°	2.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.6
80°	2.6	2.6	3.3	2.6	3.3	3.3	3.3	3.3	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	1.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2
2.5°	114.2	115.5	114.2	115.5	112.4	113.7	114.9	111.7
5°	99.4	98.1	98.8	100.1	97.5	98.1	98.8	96.2
7.5°	89.1	89.7	88.4	89.7	87.8	88.4	89.1	87.1
10°	80.7	81.4	80.7	81.4	79.4	80.7	81.4	79.4
12.5°	73.0	74.2	73.6	74.8	73.0	74.2	75.5	73.0
15°	67.1	68.4	67.8	69.1	67.8	69.1	70.4	68.4
17.5°	61.4	62.7	62.7	64.0	63.3	64.5	65.8	64.0
20°	55.5	57.4	57.4	58.7	58.7	59.4	61.4	59.4
22.5°	50.4	52.3	52.3	53.6	53.6	54.8	56.1	54.8
25°	44.6	47.1	47.8	49.1	49.1	50.4	52.3	51.0
27.5°	40.7	42.6	43.3	44.6	45.2	46.5	47.8	46.5
30°	35.5	38.1	38.7	40.0	40.7	42.6	43.3	42.6
32.5°	31.7	33.6	34.3	35.5	36.8	38.1	39.4	38.7
35°	27.7	29.7	30.4	31.7	32.3	34.3	35.5	34.8
37.5°	24.6	26.4	27.1	27.7	28.4	30.4	31.7	31.0
40°	21.3	22.6	23.3	24.6	25.1	26.4	27.7	27.7
42.5°	18.7	20.0	20.7	21.3	22.0	23.3	24.6	23.9
45°	16.1	17.4	18.1	18.7	19.4	20.0	21.3	20.7
47.5°	13.6	14.8	15.5	16.1	16.8	17.4	18.7	18.1
50°	11.6	12.9	12.9	13.6	14.2	14.8	16.1	15.5
52.5°	10.3	11.0	11.6	11.6	12.3	12.9	14.2	13.6
55°	9.0	9.7	9.7	10.3	10.3	11.0	11.6	11.6
57.5°	7.7	8.4	8.4	9.0	9.0	9.7	10.3	10.3
60°	7.1	7.1	7.7	7.7	7.7	8.4	8.4	8.4
62.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
67.5°	4.6	4.6	4.6	4.6	4.6	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.9	3.3	3.3	3.3
72.5°	3.9	3.9	3.3	3.3	3.3	3.3	3.3	2.6
75°	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.6
77.5°	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0
80°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	1.3
82.5°	2.0	2.0	2.0	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7
87.5°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)