

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: P1219527

Luminaire Tested: **LDSQA4A20950D010TE LAR15SP 4LSQA1H-LSF-20 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: P1219527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26830)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A20950D010TE LAR15SP 4LSQA1H-LSF-20 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

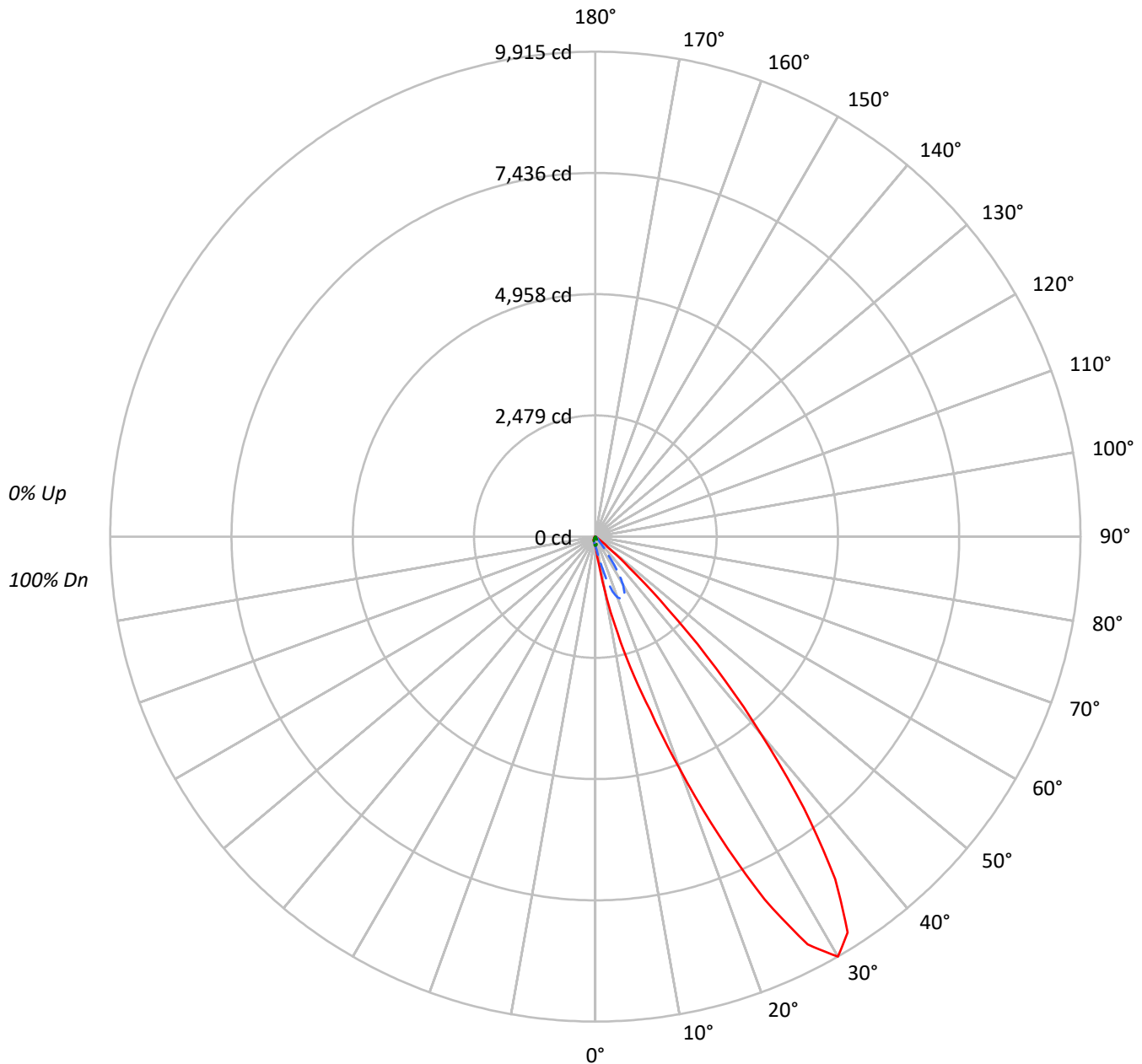
Lumens per Lamp: N/A
Luminaire Lumens: 1730.6 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.64 / 1.15
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	112	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	85	81	97	90	84	80	87	83	79		85	81	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70
6	81	70	63	58	79	69	62	57	67	61	57		66	61	57		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18096	18096	18096
5°	34668	17242	13994
10°	113352	15287	11913
15°	277601	12617	10511
20°	523020	9629	9433
25°	875516	6830	8252
30°	1109113	4687	7047
35°	1010605	3039	5972
40°	665569	2188	5058
45°	288308	1439	4192
50°	51121	1025	3436
55°	8208	811	2922
60°	2034	736	2209
65°	642	871	1742
70°	538	1076	1360
75°	711	1048	1048
80°	0	1562	1060
85°	0	3112	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	1.4
10°-20°	192.5	11.1
20°-30°	579.8	33.5
30°-40°	660.0	38.1
40°-50°	244.0	14.1
50°-60°	19.4	1.1
60°-70°	5.2	0.3
70°-80°	3.6	0.2
80°-90°	2.1	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°	796.3	46.0
0°-40°	1456.3	84.1
0°-60°	1719.7	99.4
0°-90°	1730.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1730.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	187	187	187	187	187	
5°	356	262	177	149	144	58
15°	2768	935	126	99	105	868
25°	8191	1367	64	62	77	3739
35°	8545	478	26	35	50	5081
45°	2104	56	10	19	31	1782
55°	49	10	5	11	17	80
65°	3	3	4	8	8	4
75°	2	3	3	5	3	1
85°	0	2	3	3	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°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	240.2	242.0	240.2	236.3	236.3	231.5	229.7	227.8	223.1	220.3	216.3
5°	356.5	350.8	346.0	334.6	330.7	320.2	312.6	302.1	287.8	275.5	262.1
7.5°	610.1	601.3	583.3	549.0	528.1	502.3	482.4	448.9	406.0	370.8	335.5
10°	1152.3	1115.1	1072.2	995.1	938.8	878.8	831.1	741.5	633.8	545.2	459.4
12.5°	1856.7	1859.5	1779.4	1648.8	1544.9	1439.2	1357.2	1191.4	1000.7	833.9	669.1
15°	2767.9	2715.3	2632.3	2432.2	2224.6	2071.1	1940.4	1689.0	1419.2	1175.1	935.0
17.5°	3727.6	3749.5	3556.0	3229.2	2900.4	2670.5	2473.3	2092.1	1771.7	1469.6	1176.1
20°	5073.3	4922.7	4646.3	4116.5	3605.6	3272.9	2980.4	2485.6	2038.7	1654.5	1324.9
22.5°	6624.9	6381.9	5819.5	5073.3	4300.4	3840.0	3432.2	2751.6	2208.3	1749.0	1375.4
25°	8190.8	8005.0	7109.1	5993.9	4886.5	4289.9	3761.9	2931.7	2289.4	1770.8	1366.8
27.5°	9399.4	9096.4	8075.6	6622.1	5236.4	4532.0	3915.3	2987.0	2272.2	1717.5	1285.6
30°	9915.0	9531.9	8400.5	6765.1	5239.2	4491.9	3839.1	2877.4	2150.2	1582.2	1133.2
32.5°	9596.7	9154.4	8013.6	6369.6	4880.8	4179.3	3544.5	2640.1	1948.0	1369.7	851.1
35°	8545.4	8105.1	7048.1	5589.0	4309.0	3696.2	3144.2	2330.2	1659.2	1015.0	478.5
37.5°	6997.6	6622.1	5866.2	4684.4	3631.3	3133.7	2674.4	1963.3	1236.1	582.3	240.2
40°	5263.0	4998.9	4545.3	3715.2	2939.4	2561.0	2191.3	1503.9	751.1	292.7	136.2
42.5°	3648.5	3476.9	3249.2	2748.7	2267.4	2007.2	1710.8	1004.5	386.0	161.1	84.8
45°	2104.4	1996.7	1933.8	1720.3	1532.6	1405.9	1143.7	541.3	195.3	96.3	56.3
47.5°	929.3	857.8	827.3	737.7	686.2	651.9	517.6	230.7	104.8	62.0	46.8
50°	339.2	339.2	340.3	299.3	244.9	220.3	172.5	102.0	59.1	48.6	34.3
52.5°	120.0	118.2	122.9	116.3	102.0	91.5	76.2	51.5	36.3	30.6	19.0
55°	48.6	46.8	48.6	45.8	43.0	40.0	35.3	27.7	22.8	19.0	10.5
57.5°	21.9	21.9	22.8	21.9	21.9	20.0	18.1	21.0	16.2	10.5	6.8
60°	10.5	10.5	11.4	11.4	11.4	10.5	10.5	11.4	9.5	6.8	4.8
62.5°	4.8	4.8	5.7	5.7	5.7	5.7	5.7	6.8	4.8	3.8	2.8
65°	2.8	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
77.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.8
80°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
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°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	212.5	209.8	204.0	201.1	197.3	194.5	192.5	188.7	184.9	182.0	180.0
5°	249.8	239.3	226.8	217.4	209.8	205.0	197.3	190.6	183.0	177.3	172.5
7.5°	304.0	278.3	250.6	231.5	221.1	211.5	198.2	186.8	176.3	168.7	162.0
10°	388.9	333.5	285.1	247.7	229.7	216.3	195.3	179.2	165.8	155.4	148.7
12.5°	529.9	416.5	330.7	267.8	240.2	220.3	190.6	168.7	152.5	142.1	133.4
15°	723.3	538.5	393.6	291.6	252.6	224.0	183.0	156.2	138.2	125.8	118.2
17.5°	905.4	666.2	465.1	320.2	265.0	225.8	172.5	140.1	121.1	109.6	102.0
20°	1019.8	749.1	512.7	336.4	268.7	220.3	158.3	122.9	103.8	93.4	85.8
22.5°	1046.4	758.6	509.0	321.3	252.6	203.0	138.2	105.8	87.7	78.2	71.4
25°	1007.3	705.3	455.6	277.3	215.3	170.6	115.3	85.8	72.5	63.9	59.1
27.5°	909.3	600.4	360.3	208.7	161.1	125.8	87.7	66.8	58.1	51.5	48.6
30°	732.9	422.2	225.8	129.6	103.0	83.0	63.0	51.5	44.7	41.9	39.0
32.5°	444.1	217.4	119.1	77.2	64.8	56.3	45.8	38.1	34.3	32.4	31.4
35°	211.5	114.3	73.4	52.4	45.8	40.0	33.3	28.5	26.7	25.7	25.7
37.5°	120.0	74.3	49.5	35.3	31.4	27.7	24.8	21.9	21.0	21.0	21.0
40°	76.2	47.6	32.4	25.7	22.8	21.0	19.0	17.3	17.3	17.3	17.3
42.5°	49.5	34.3	24.8	19.0	17.3	16.2	14.4	13.3	13.3	13.3	14.4
45°	39.0	28.5	20.0	15.2	13.3	12.5	11.4	10.5	10.5	10.5	11.4
47.5°	33.3	20.0	13.3	10.5	8.5	8.5	7.6	7.6	7.6	8.5	9.5
50°	20.0	12.5	8.5	6.8	5.7	5.7	5.7	5.7	5.7	6.8	7.6
52.5°	11.4	7.6	5.7	4.8	3.8	3.8	3.8	3.8	4.8	5.7	5.7
55°	7.6	5.7	3.8	3.8	2.8	2.8	2.8	3.8	3.8	4.8	5.7
57.5°	4.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8	4.8
60°	3.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
62.5°	2.8	2.8	3.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
65°	2.8	2.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8
67.5°	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8	3.8
70°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8
72.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8
75°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8
77.5°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8
80°	2.8	2.8	2.8	3.8	2.8	3.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	177.3	175.3	172.5	171.6	172.5	171.6	166.8	165.8	164.0	164.0	164.0
5°	167.8	164.8	161.1	159.2	159.2	157.2	152.5	151.5	148.7	148.7	147.8
7.5°	156.2	152.5	147.8	145.8	145.8	143.9	139.2	137.3	135.3	135.3	134.4
10°	143.0	138.2	133.4	132.5	131.6	128.8	125.8	124.8	122.0	122.9	122.0
12.5°	127.7	124.0	120.0	118.2	118.2	115.3	113.5	112.5	111.5	111.5	111.5
15°	113.5	108.7	104.8	103.8	103.8	103.0	101.0	101.0	99.1	101.0	101.0
17.5°	97.2	93.4	92.6	90.5	91.5	90.5	88.7	89.5	89.5	90.5	91.5
20°	82.0	79.0	78.2	77.2	78.2	78.2	77.2	78.2	79.0	82.0	83.8
22.5°	68.5	66.8	66.8	65.7	66.8	67.7	66.8	68.5	70.5	72.5	75.3
25°	57.2	56.3	56.3	56.3	57.2	58.1	59.1	60.9	62.0	64.8	66.8
27.5°	46.8	46.8	46.8	47.6	48.6	49.5	50.5	53.4	54.3	57.2	59.1
30°	39.0	38.1	39.0	40.0	41.0	43.0	43.8	45.8	46.8	49.5	51.5
32.5°	31.4	32.4	33.3	34.3	35.3	36.3	37.2	39.0	41.0	43.0	44.7
35°	26.7	26.7	27.7	28.5	29.5	31.4	32.4	33.3	35.3	37.2	38.1
37.5°	21.9	22.8	23.8	24.8	25.7	26.7	27.7	28.5	29.5	31.4	33.3
40°	18.1	19.0	20.0	21.0	21.0	22.8	22.8	24.8	25.7	27.7	29.5
42.5°	15.2	16.2	17.3	18.1	18.1	19.0	20.0	21.0	21.9	23.8	25.7
45°	12.5	13.3	14.4	15.2	15.2	16.2	17.3	18.1	19.0	21.0	21.9
47.5°	10.5	11.4	12.5	13.3	13.3	14.4	15.2	16.2	16.2	18.1	19.0
50°	8.5	9.5	10.5	11.4	11.4	12.5	13.3	14.4	14.4	15.2	16.2
52.5°	6.8	7.6	9.5	9.5	10.5	11.4	11.4	12.5	12.5	13.3	14.4
55°	6.8	7.6	8.5	8.5	9.5	10.5	10.5	11.4	11.4	11.4	12.5
57.5°	5.7	6.8	7.6	8.5	8.5	9.5	9.5	9.5	9.5	10.5	10.5
60°	5.7	6.8	6.8	7.6	7.6	8.5	8.5	8.5	8.5	9.5	9.5
62.5°	5.7	5.7	6.8	6.8	7.6	7.6	7.6	8.5	8.5	8.5	8.5
65°	4.8	5.7	6.8	6.8	6.8	7.6	7.6	7.6	7.6	7.6	7.6
67.5°	4.8	5.7	5.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	4.8	4.8	5.7	5.7	5.7	6.8	6.8	6.8	5.7	6.8	5.7
72.5°	3.8	4.8	4.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
75°	3.8	4.8	4.8	4.8	4.8	5.7	5.7	4.8	4.8	4.8	4.8
77.5°	3.8	3.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.8
80°	3.8	3.8	3.8	3.8	4.8	4.8	3.8	3.8	3.8	3.8	3.8
82.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8
85°	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	2.8	1.9
87.5°	2.8	2.8	2.8	3.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9
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°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	161.1	160.1	161.1	160.1	160.1	161.1	158.3	160.1
5°	145.8	143.9	144.9	143.9	143.0	143.9	142.1	143.9
7.5°	132.5	131.6	131.6	131.6	130.5	131.6	129.6	131.6
10°	121.1	120.0	120.0	120.0	120.0	121.1	119.1	121.1
12.5°	109.6	109.6	110.6	109.6	110.6	111.5	109.6	111.5
15°	100.0	101.0	102.0	102.0	103.0	103.8	103.0	104.8
17.5°	92.6	93.4	95.3	95.3	96.3	98.2	97.2	99.1
20°	84.8	85.8	87.7	87.7	88.7	90.5	89.5	91.5
22.5°	76.2	78.2	79.0	80.1	81.0	83.0	82.0	83.8
25°	67.7	70.5	71.4	72.5	73.4	75.3	75.3	77.2
27.5°	60.9	63.0	63.9	64.8	66.8	68.5	68.5	69.6
30°	53.4	55.2	57.2	58.1	59.1	60.9	60.9	63.0
32.5°	46.8	48.6	49.5	50.5	52.4	54.3	55.2	56.3
35°	40.0	43.0	43.8	45.8	46.8	49.5	49.5	50.5
37.5°	35.3	37.2	39.0	40.0	41.9	43.8	43.8	45.8
40°	31.4	33.3	34.3	35.3	37.2	39.0	39.0	40.0
42.5°	26.7	29.5	30.6	31.4	32.4	34.3	35.3	36.3
45°	23.8	24.8	25.7	26.7	27.7	29.5	29.5	30.6
47.5°	20.0	21.0	21.9	22.8	23.8	24.8	25.7	26.7
50°	17.3	18.1	19.0	19.0	20.0	21.9	21.9	22.8
52.5°	14.4	15.2	16.2	16.2	17.3	19.0	19.0	20.0
55°	12.5	13.3	14.4	14.4	15.2	16.2	16.2	17.3
57.5°	11.4	11.4	12.5	12.5	13.3	13.3	14.4	14.4
60°	9.5	10.5	10.5	10.5	11.4	11.4	11.4	11.4
62.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9.5
65°	7.6	7.6	7.6	7.6	7.6	7.6	6.8	7.6
67.5°	6.8	6.8	6.8	6.8	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	3.8	3.8	3.8
75°	4.8	4.8	3.8	3.8	3.8	3.8	3.8	2.8
77.5°	3.8	3.8	3.8	3.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)