

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: P1212326

Luminaire Tested: **LDSQA4A30935D010TE LAR35FL 4LSQAL1H 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: P1212326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26804)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30935D010TE LAR35FL 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

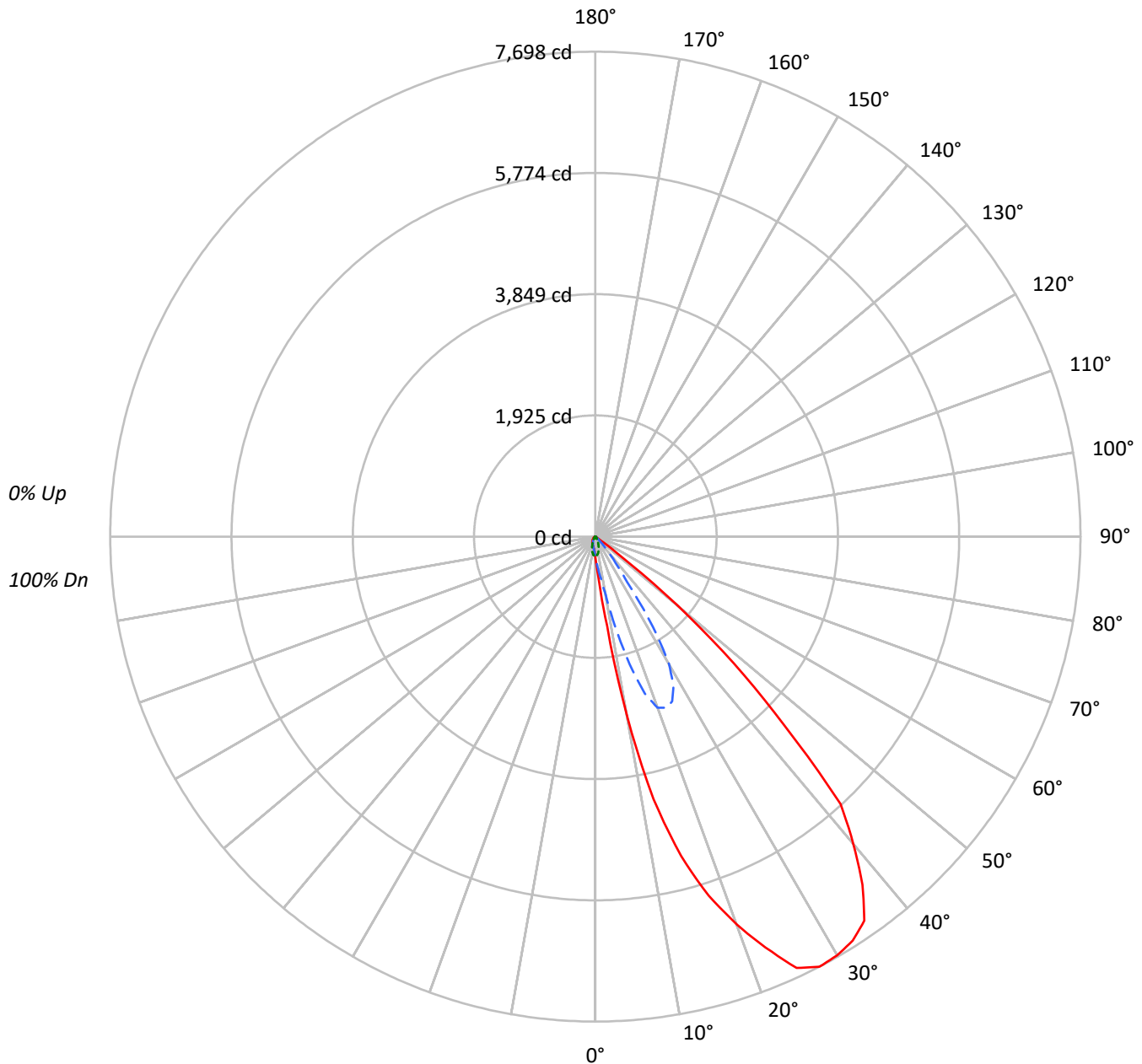
Lumens per Lamp: N/A
Luminaire Lumens: 2563.9 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.61 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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	104	102		103	101	99			99	97	96			96
2	106	100	95	91	103	98	94	90		95	91	88			92	89	86			89
3	99	91	85	80	97	90	84	80		87	82	78			84	80	77			82
4	92	83	77	71	90	82	76	71		80	74	70			78	73	69			76
5	86	76	69	64	84	75	68	64		73	67	63			71	66	62			70
6	80	70	62	57	79	69	62	57		67	61	57			66	60	56			64
7	75	64	57	52	74	63	56	51		62	56	51			60	55	51			59
8	70	59	52	47	69	58	51	46		57	51	46			56	50	46			55
9	66	54	47	42	64	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°	30710	30710	30710
5°	71981	28989	20266
10°	284397	25468	16900
15°	526317	20400	14823
20°	674865	14845	13412
25°	807470	10529	11886
30°	858586	6924	10459
35°	879936	4187	9118
40°	805499	2719	7828
45°	581233	1904	6412
50°	253738	1522	5335
55°	17498	1284	4493
60°	3178	1221	3681
65°	1169	1169	2613
70°	1076	1445	1784
75°	936	1909	1909
80°	0	2845	2120
85°	0	5669	1334

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	1.8
10°-20°	362.9	14.2
20°-30°	759.7	29.6
30°-40°	845.7	33.0
40°-50°	485.5	18.9
50°-60°	48.5	1.9
60°-70°	7.6	0.3
70°-80°	4.8	0.2
80°-90°	3.0	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°	1168.8	45.6
0°-40°	2014.5	78.6
0°-60°	2548.5	99.4
0°-90°	2563.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	317	317	317	317	317	
5°	740	510	298	217	208	136
15°	5248	2095	203	143	148	1483
25°	7554	2884	98	87	111	3421
35°	7440	880	35	50	77	4543
45°	4242	106	14	28	47	3239
55°	104	15	8	16	27	309
65°	5	4	5	10	11	7
75°	2	2	5	6	5	2
85°	0	2	5	4	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°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	473.6	463.5	453.5	447.1	440.8	449.6	443.3	440.8	423.1	414.3	406.7
5°	740.2	721.2	693.4	670.7	647.9	653.0	635.3	613.8	569.6	538.0	510.3
7.5°	1428.4	1381.8	1295.9	1212.5	1129.1	1114.0	1058.4	962.4	838.7	745.2	664.3
10°	2891.1	2749.6	2591.8	2421.3	2221.7	2166.1	2028.5	1768.2	1484.0	1159.5	924.6
12.5°	4267.8	4203.4	4017.7	3796.7	3580.6	3448.1	3305.4	2875.8	2425.0	1902.1	1465.2
15°	5247.8	5208.7	5045.8	4845.0	4612.5	4526.7	4352.4	3924.3	3354.6	2729.4	2095.4
17.5°	5974.1	5907.2	5736.7	5518.1	5242.7	5169.5	4961.2	4535.5	3944.4	3316.7	2613.2
20°	6546.2	6504.5	6283.5	6020.9	5691.1	5602.8	5359.0	4915.7	4272.8	3605.9	2889.7
22.5°	7060.2	6989.6	6718.0	6404.7	6028.4	5933.6	5662.1	5175.9	4485.0	3742.3	2939.0
25°	7554.2	7446.8	7117.1	6706.7	6264.6	6135.8	5837.7	5322.4	4563.3	3753.7	2883.5
27.5°	7698.1	7643.8	7339.5	6862.0	6350.5	6205.3	5894.5	5355.2	4534.2	3650.1	2684.0
30°	7675.4	7629.9	7376.1	6877.2	6335.3	6182.5	5866.7	5254.2	4365.0	3379.8	2331.5
32.5°	7603.4	7585.7	7278.8	6745.8	6193.9	6027.2	5686.2	5002.8	4048.0	2968.1	1703.8
35°	7440.5	7371.0	6988.3	6486.9	5956.5	5773.3	5388.1	4642.8	3629.9	2161.0	880.3
37.5°	6963.1	6908.7	6606.9	6167.3	5650.8	5415.9	5009.2	4178.1	2810.2	1228.9	526.7
40°	6369.5	6342.9	6105.5	5712.6	5160.7	4895.5	4453.4	3419.0	1715.2	698.5	347.4
42.5°	5760.6	5753.1	5499.1	5088.7	4490.1	4185.6	3727.2	2306.3	911.9	421.8	200.8
45°	4242.5	4288.0	4111.2	3864.8	3407.6	3186.6	2591.8	1188.5	525.4	233.7	106.1
47.5°	2975.6	2925.1	2611.9	2181.2	1763.1	1492.8	1129.1	562.1	280.4	122.5	60.7
50°	1683.6	1692.4	1409.6	1140.5	747.7	592.3	449.6	283.0	135.1	64.4	36.6
52.5°	439.6	459.7	396.6	341.0	290.5	236.2	190.7	122.5	64.4	37.9	24.0
55°	103.6	107.4	99.8	93.5	88.4	78.3	69.5	53.0	35.4	24.0	15.1
57.5°	36.6	37.9	36.6	36.6	35.4	34.1	31.5	27.8	21.5	15.1	10.1
60°	16.4	17.6	16.4	17.6	17.6	17.6	17.6	17.6	12.7	8.8	6.3
62.5°	7.6	7.6	7.6	7.6	8.8	8.8	10.1	10.1	7.6	6.3	5.1
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.8
67.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
80°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
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°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	392.8	391.5	377.6	367.6	362.5	354.9	346.1	333.5	319.6	306.9	301.8
5°	477.4	461.0	432.0	407.9	396.6	385.2	365.0	342.3	320.8	298.1	286.7
7.5°	587.3	539.3	482.5	438.2	419.3	400.4	371.3	339.8	310.7	280.4	264.0
10°	737.6	626.5	527.9	457.2	429.4	404.2	362.5	323.3	291.8	258.9	237.4
12.5°	1054.6	779.2	576.0	466.0	429.4	396.6	346.1	300.6	265.2	231.1	211.0
15°	1519.4	1052.1	680.8	474.9	420.6	378.9	320.8	271.5	233.7	203.4	184.4
17.5°	1894.6	1303.5	810.9	497.7	409.2	354.9	287.9	236.2	200.8	173.0	157.9
20°	2083.9	1409.6	870.2	501.4	381.5	317.0	248.8	199.6	168.0	144.0	131.3
22.5°	2080.2	1375.4	817.2	439.6	334.7	274.0	209.6	164.2	138.9	120.0	109.8
25°	1948.8	1217.6	682.1	351.1	270.3	227.4	170.5	132.7	112.4	98.5	89.7
27.5°	1702.6	989.0	509.0	260.1	211.0	179.3	132.7	106.1	89.7	79.6	73.2
30°	1336.2	661.8	320.8	193.2	160.5	135.1	102.3	82.2	70.7	61.9	58.1
32.5°	736.3	344.8	215.9	141.5	117.4	98.5	75.8	59.3	51.8	45.4	44.2
35°	406.7	243.7	154.1	94.7	78.3	66.9	51.8	42.9	37.9	35.4	35.4
37.5°	287.9	156.6	92.2	59.3	50.5	44.2	35.4	30.3	29.0	27.8	27.8
40°	173.0	92.2	55.6	39.1	34.1	30.3	26.6	22.7	22.7	21.5	22.7
42.5°	94.7	55.6	37.9	27.8	24.0	22.7	19.0	17.6	17.6	17.6	19.0
45°	56.8	36.6	26.6	20.2	17.6	15.1	13.9	12.7	13.9	13.9	15.1
47.5°	36.6	26.6	17.6	12.7	11.4	10.1	8.8	10.1	10.1	11.4	12.7
50°	25.3	16.4	11.4	7.6	7.6	6.3	7.6	7.6	8.8	10.1	11.4
52.5°	16.4	11.4	7.6	6.3	5.1	5.1	5.1	6.3	7.6	8.8	10.1
55°	10.1	7.6	6.3	5.1	5.1	5.1	5.1	5.1	6.3	7.6	8.8
57.5°	7.6	6.3	5.1	3.8	3.8	3.8	5.1	5.1	6.3	6.3	7.6
60°	5.1	5.1	3.8	3.8	3.8	3.8	3.8	5.1	5.1	6.3	7.6
62.5°	5.1	5.1	3.8	3.8	3.8	3.8	5.1	5.1	5.1	6.3	6.3
65°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	6.3
67.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	6.3
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	6.3
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
77.5°	2.5	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
82.5°	2.5	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
85°	2.5	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1	5.1
87.5°	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	5.1
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°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	295.5	286.7	279.1	281.7	276.6	267.8	265.2	258.9	251.3	250.1	250.1
5°	274.0	260.1	248.8	247.6	242.5	232.4	229.8	223.5	217.2	215.9	214.7
7.5°	247.6	232.4	222.3	219.8	215.9	207.1	205.9	199.6	195.7	193.2	193.2
10°	221.0	207.1	198.3	197.1	194.5	186.9	185.7	180.6	176.8	175.6	174.2
12.5°	195.7	184.4	176.8	175.6	173.0	166.7	165.4	161.7	159.1	157.9	157.9
15°	171.8	161.7	155.4	154.1	152.8	146.6	146.6	144.0	142.7	142.7	144.0
17.5°	147.8	138.9	133.9	132.7	132.7	127.6	128.8	127.6	127.6	127.6	130.1
20°	123.7	116.2	112.4	113.7	111.2	109.8	111.2	111.2	111.2	113.7	117.4
22.5°	103.6	97.3	93.5	94.7	94.7	93.5	94.7	95.9	98.5	102.3	106.1
25°	84.6	79.6	78.3	79.6	79.6	79.6	82.2	84.6	87.1	91.0	94.7
27.5°	68.3	64.4	64.4	65.7	66.9	66.9	70.7	73.2	77.1	80.8	84.6
30°	54.4	53.0	53.0	55.6	55.6	56.8	61.9	64.4	66.9	70.7	74.5
32.5°	42.9	42.9	44.2	46.8	46.8	49.3	53.0	55.6	58.1	61.9	65.7
35°	35.4	36.6	37.9	39.1	40.5	41.7	45.4	48.0	50.5	54.4	56.8
37.5°	29.0	30.3	31.5	34.1	34.1	35.4	39.1	41.7	42.9	46.8	50.5
40°	24.0	25.3	26.6	29.0	29.0	30.3	34.1	35.4	36.6	40.5	44.2
42.5°	20.2	21.5	22.7	24.0	25.3	26.6	29.0	30.3	32.9	35.4	37.9
45°	16.4	17.6	19.0	20.2	21.5	22.7	24.0	26.6	27.8	30.3	32.9
47.5°	13.9	15.1	16.4	17.6	19.0	19.0	21.5	22.7	24.0	26.6	29.0
50°	12.7	13.9	15.1	15.1	16.4	17.6	19.0	20.2	21.5	22.7	25.3
52.5°	10.1	11.4	12.7	13.9	13.9	15.1	16.4	17.6	19.0	20.2	21.5
55°	10.1	10.1	11.4	12.7	12.7	13.9	15.1	16.4	16.4	17.6	19.0
57.5°	8.8	10.1	10.1	11.4	11.4	12.7	13.9	13.9	15.1	15.1	16.4
60°	7.6	8.8	10.1	10.1	10.1	11.4	11.4	12.7	12.7	13.9	13.9
62.5°	7.6	8.8	8.8	10.1	10.1	10.1	11.4	11.4	11.4	12.7	12.7
65°	7.6	7.6	8.8	8.8	8.8	8.8	10.1	10.1	10.1	11.4	11.4
67.5°	6.3	7.6	7.6	7.6	8.8	8.8	8.8	8.8	8.8	10.1	10.1
70°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	8.8	8.8	8.8	8.8
72.5°	6.3	6.3	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	5.1	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	5.1	5.1	5.1	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8
85°	5.1	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5
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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Peachtree City, GA 30269



TEST NUMBER: P1212326

CATALOG NUMBER: LDSQA4A30935D010TE LAR35FL 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	245.0	242.5	241.3	245.0	240.0	242.5	241.3	242.5
5°	211.0	208.4	207.1	211.0	205.9	208.4	205.9	208.4
7.5°	189.5	188.1	186.9	189.5	185.7	188.1	186.9	188.1
10°	171.8	170.5	169.3	173.0	169.3	171.8	170.5	171.8
12.5°	156.6	156.6	155.4	157.9	155.4	157.9	156.6	157.9
15°	142.7	144.0	142.7	145.2	144.0	146.6	145.2	147.8
17.5°	131.3	132.7	132.7	136.4	135.1	138.9	137.6	138.9
20°	120.0	121.2	122.5	125.1	125.1	128.8	127.6	130.1
22.5°	108.6	111.2	111.2	114.9	114.9	118.8	118.8	120.0
25°	97.3	101.0	102.3	104.9	106.1	109.8	109.8	111.2
27.5°	88.4	91.0	92.2	95.9	97.3	101.0	101.0	103.6
30°	78.3	82.2	83.4	85.9	87.1	91.0	91.0	93.5
32.5°	69.5	72.0	74.5	77.1	78.3	82.2	82.2	84.6
35°	60.7	64.4	65.7	68.3	70.7	74.5	74.5	77.1
37.5°	53.0	56.8	58.1	60.7	63.2	66.9	66.9	69.5
40°	46.8	50.5	51.8	54.4	55.6	60.7	60.7	61.9
42.5°	41.7	44.2	45.4	48.0	49.3	51.8	51.8	54.4
45°	35.4	37.9	39.1	40.5	42.9	45.4	45.4	46.8
47.5°	30.3	32.9	34.1	35.4	36.6	39.1	39.1	41.7
50°	26.6	27.8	29.0	30.3	31.5	34.1	34.1	35.4
52.5°	22.7	24.0	25.3	26.6	27.8	29.0	30.3	31.5
55°	20.2	21.5	21.5	22.7	24.0	25.3	25.3	26.6
57.5°	17.6	19.0	19.0	19.0	20.2	21.5	21.5	22.7
60°	15.1	16.4	16.4	16.4	17.6	17.6	17.6	19.0
62.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
65°	11.4	11.4	11.4	11.4	11.4	11.4	10.1	11.4
67.5°	10.1	10.1	10.1	8.8	8.8	8.8	8.8	8.8
70°	8.8	8.8	8.8	7.6	7.6	7.6	6.3	6.3
72.5°	7.6	7.6	7.6	6.3	6.3	6.3	5.1	5.1
75°	6.3	6.3	6.3	6.3	5.1	5.1	5.1	5.1
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8
80°	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2
87.5°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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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