

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: P1219469

Luminaire Tested: **LDSQA4A15927D010TE 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: P1219469
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: LDSQA4A15927D010TE LAR35FL 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

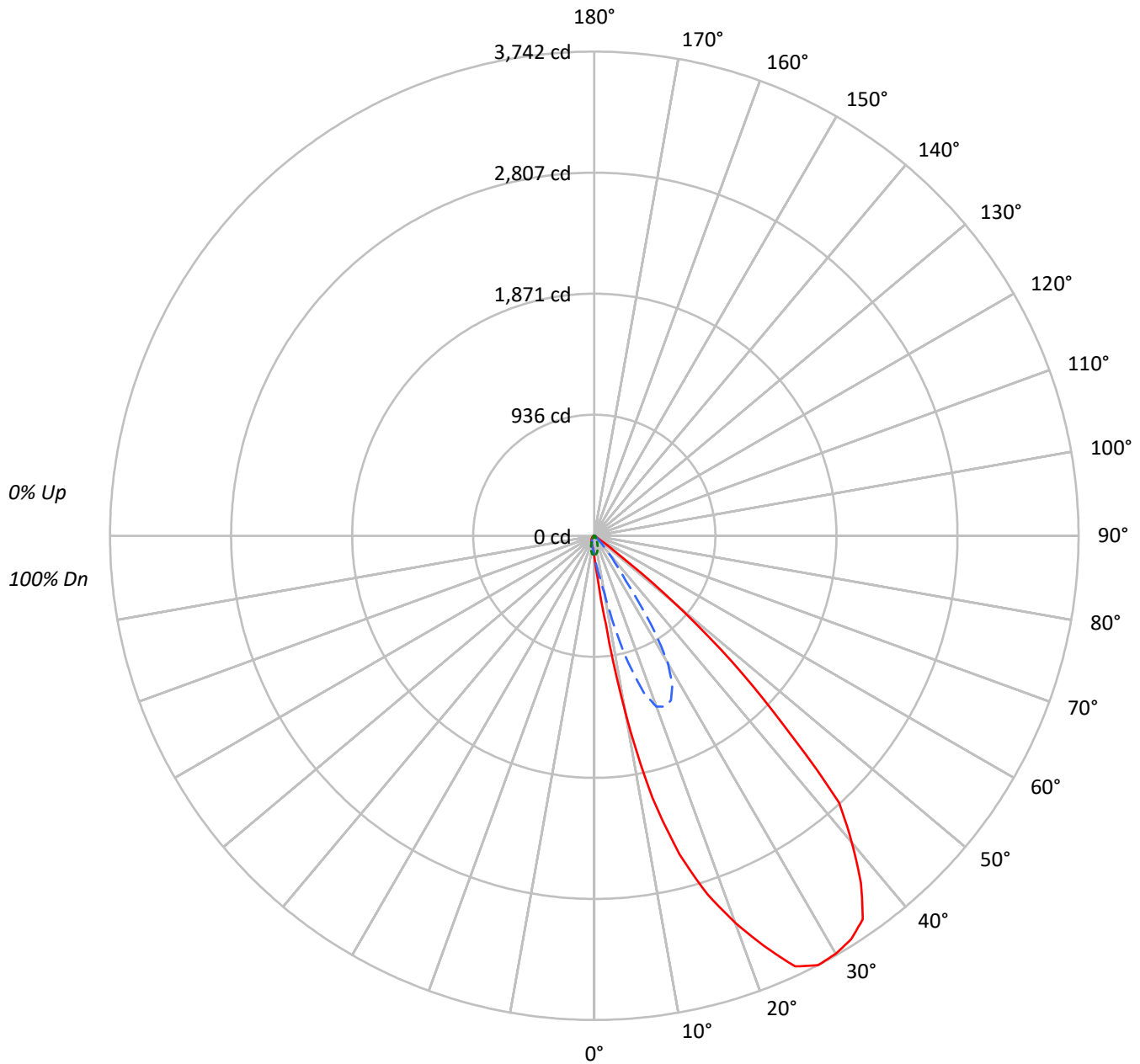
Lumens per Lamp: N/A
Luminaire Lumens: 1246.2 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.61 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14919	14919	14919
5°	34989	14081	9851
10°	138229	12375	8214
15°	255817	9909	7211
20°	328020	7216	6526
25°	392469	5120	5783
30°	417313	3367	5079
35°	427698	2034	4423
40°	391501	1315	3807
45°	282513	918	3110
50°	123327	754	2592
55°	8496	625	2179
60°	1550	601	1783
65°	573	573	1261
70°	538	708	878
75°	449	936	936
80°	0	1395	1060
85°	0	2779	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	1.8
10°-20°	176.4	14.2
20°-30°	369.3	29.6
30°-40°	411.1	33.0
40°-50°	236.0	18.9
50°-60°	23.6	1.9
60°-70°	3.7	0.3
70°-80°	2.4	0.2
80°-90°	1.5	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°	568.1	45.6
0°-40°	979.2	78.6
0°-60°	1238.7	99.4
0°-90°	1246.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1246.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	154	154	154	154	154	
5°	360	248	145	106	101	66
15°	2551	1018	99	69	72	721
25°	3672	1402	48	42	54	1663
35°	3616	428	17	25	37	2208
45°	2062	52	7	14	23	1574
55°	50	7	4	8	13	150
65°	2	2	2	5	6	3
75°	1	1	2	3	2	1
85°	0	1	2	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°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
2.5°	230.2	225.3	220.4	217.3	214.2	218.6	215.5	214.2	205.6	201.4	197.7
5°	359.8	350.6	337.0	326.0	314.9	317.4	308.8	298.4	276.9	261.6	248.0
7.5°	694.3	671.6	629.8	589.3	548.9	541.4	514.4	467.8	407.6	362.2	322.9
10°	1405.2	1336.4	1259.7	1176.8	1079.8	1052.9	985.9	859.4	721.3	563.5	449.4
12.5°	2074.3	2043.1	1952.8	1845.4	1740.4	1675.9	1606.6	1397.8	1178.7	924.6	712.1
15°	2550.7	2531.7	2452.5	2354.9	2242.0	2200.2	2115.4	1907.3	1630.5	1326.6	1018.4
17.5°	2903.7	2871.2	2788.3	2682.1	2548.3	2512.6	2411.3	2204.4	1917.1	1612.1	1270.2
20°	3181.8	3161.6	3054.1	2926.4	2766.2	2723.2	2604.7	2389.3	2076.8	1752.7	1404.6
22.5°	3431.6	3397.3	3265.3	3113.1	2930.1	2884.1	2752.1	2515.7	2179.9	1818.9	1428.6
25°	3671.7	3619.5	3459.3	3259.8	3044.8	2982.3	2837.4	2587.0	2218.0	1824.5	1401.5
27.5°	3741.7	3715.3	3567.3	3335.3	3086.6	3016.0	2865.1	2602.9	2203.8	1774.2	1304.5
30°	3730.6	3708.5	3585.1	3342.6	3079.3	3004.9	2851.5	2553.8	2121.6	1642.8	1133.3
32.5°	3695.6	3687.1	3537.9	3278.8	3010.5	2929.5	2763.7	2431.6	1967.5	1442.6	828.1
35°	3616.5	3582.6	3396.7	3153.0	2895.1	2806.1	2618.8	2256.7	1764.3	1050.4	427.9
37.5°	3384.4	3358.0	3211.3	2997.6	2746.6	2632.3	2434.7	2030.8	1365.9	597.3	256.0
40°	3095.8	3083.0	2967.5	2776.7	2508.4	2379.5	2164.5	1661.8	833.7	339.5	168.8
42.5°	2799.9	2796.3	2672.9	2473.3	2182.4	2034.4	1811.6	1121.0	443.2	205.0	97.6
45°	2062.1	2084.1	1998.2	1878.5	1656.3	1548.9	1259.7	577.7	255.4	113.6	51.6
47.5°	1446.3	1421.7	1269.5	1060.2	856.9	725.6	548.9	273.1	136.3	59.5	29.5
50°	818.3	822.6	685.1	554.3	363.4	287.9	218.6	137.5	65.6	31.3	17.8
52.5°	213.6	223.4	192.8	165.7	141.2	114.8	92.7	59.5	31.3	18.4	11.7
55°	50.3	52.2	48.5	45.4	43.0	38.0	33.8	25.7	17.2	11.7	7.3
57.5°	17.8	18.4	17.8	17.8	17.2	16.5	15.3	13.5	10.4	7.3	5.0
60°	8.0	8.6	8.0	8.6	8.6	8.6	8.6	8.6	6.1	4.3	3.1
62.5°	3.7	3.7	3.7	3.7	4.3	4.3	5.0	5.0	3.7	3.1	2.5
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.2
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°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
2.5°	190.9	190.3	183.5	178.6	176.2	172.5	168.2	162.1	155.3	149.2	146.7
5°	232.1	224.0	210.0	198.3	192.8	187.2	177.4	166.3	155.9	144.8	139.4
7.5°	285.4	262.2	234.5	213.0	203.8	194.6	180.5	165.1	151.0	136.3	128.3
10°	358.5	304.5	256.6	222.3	208.7	196.4	176.2	157.1	141.8	125.8	115.4
12.5°	512.6	378.8	280.0	226.5	208.7	192.8	168.2	146.1	128.9	112.4	102.6
15°	738.5	511.3	330.9	230.9	204.4	184.1	155.9	132.0	113.6	98.8	89.6
17.5°	920.8	633.5	394.1	241.9	198.9	172.5	140.0	114.8	97.6	84.2	76.7
20°	1012.9	685.1	422.9	243.7	185.4	154.0	121.0	97.0	81.7	70.0	63.9
22.5°	1011.1	668.5	397.2	213.6	162.7	133.3	101.9	79.8	67.5	58.3	53.4
25°	947.2	591.8	331.5	170.7	131.4	110.5	82.9	64.4	54.6	47.9	43.6
27.5°	827.5	480.6	247.4	126.4	102.6	87.2	64.4	51.6	43.6	38.7	35.6
30°	649.5	321.7	155.9	94.0	78.0	65.6	49.7	39.9	34.4	30.1	28.2
32.5°	357.9	167.6	104.9	68.8	57.1	47.9	36.8	28.8	25.1	22.1	21.5
35°	197.7	118.5	74.9	46.0	38.0	32.6	25.1	20.9	18.4	17.2	17.2
37.5°	140.0	76.1	44.8	28.8	24.6	21.5	17.2	14.8	14.2	13.5	13.5
40°	84.2	44.8	27.0	19.0	16.5	14.8	12.9	11.1	11.1	10.4	11.1
42.5°	46.0	27.0	18.4	13.5	11.7	11.1	9.2	8.6	8.6	8.6	9.2
45°	27.6	17.8	12.9	9.8	8.6	7.3	6.7	6.1	6.7	6.7	7.3
47.5°	17.8	12.9	8.6	6.1	5.5	5.0	4.3	5.0	5.0	5.5	6.1
50°	12.3	8.0	5.5	3.7	3.7	3.1	3.7	3.7	4.3	5.0	5.5
52.5°	8.0	5.5	3.7	3.1	2.5	2.5	2.5	3.1	3.7	4.3	5.0
55°	5.0	3.7	3.1	2.5	2.5	2.5	2.5	2.5	3.1	3.7	4.3
57.5°	3.7	3.1	2.5	1.9	1.9	1.9	2.5	2.5	3.1	3.1	3.7
60°	2.5	2.5	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1	3.7
62.5°	2.5	2.5	1.9	1.9	1.9	1.9	2.5	2.5	2.5	3.1	3.1
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	3.1
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5
77.5°	1.2	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5
82.5°	1.2	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5
85°	1.2	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5
87.5°	1.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
2.5°	143.6	139.4	135.6	136.9	134.4	130.2	128.9	125.8	122.2	121.6	121.6
5°	133.3	126.4	121.0	120.3	117.9	113.0	111.8	108.7	105.6	104.9	104.3
7.5°	120.3	113.0	108.0	106.8	104.9	100.7	100.1	97.0	95.1	94.0	94.0
10°	107.4	100.7	96.4	95.7	94.5	90.9	90.3	87.8	85.9	85.3	84.7
12.5°	95.1	89.6	85.9	85.3	84.2	81.1	80.4	78.6	77.3	76.7	76.7
15°	83.5	78.6	75.5	74.9	74.2	71.2	71.2	70.0	69.4	69.4	70.0
17.5°	71.9	67.5	65.0	64.4	64.4	62.0	62.6	62.0	62.0	62.0	63.3
20°	60.2	56.4	54.6	55.2	54.1	53.4	54.1	54.1	54.1	55.2	57.1
22.5°	50.3	47.2	45.4	46.0	46.0	45.4	46.0	46.6	47.9	49.7	51.6
25°	41.1	38.7	38.0	38.7	38.7	38.7	39.9	41.1	42.4	44.2	46.0
27.5°	33.2	31.3	31.3	31.9	32.6	32.6	34.4	35.6	37.4	39.3	41.1
30°	26.4	25.7	25.7	27.0	27.0	27.6	30.1	31.3	32.6	34.4	36.2
32.5°	20.9	20.9	21.5	22.7	22.7	24.0	25.7	27.0	28.2	30.1	31.9
35°	17.2	17.8	18.4	19.0	19.6	20.3	22.1	23.4	24.6	26.4	27.6
37.5°	14.2	14.8	15.3	16.5	16.5	17.2	19.0	20.3	20.9	22.7	24.6
40°	11.7	12.3	12.9	14.2	14.2	14.8	16.5	17.2	17.8	19.6	21.5
42.5°	9.8	10.4	11.1	11.7	12.3	12.9	14.2	14.8	15.9	17.2	18.4
45°	8.0	8.6	9.2	9.8	10.4	11.1	11.7	12.9	13.5	14.8	15.9
47.5°	6.7	7.3	8.0	8.6	9.2	9.2	10.4	11.1	11.7	12.9	14.2
50°	6.1	6.7	7.3	7.3	8.0	8.6	9.2	9.8	10.4	11.1	12.3
52.5°	5.0	5.5	6.1	6.7	6.7	7.3	8.0	8.6	9.2	9.8	10.4
55°	5.0	5.0	5.5	6.1	6.1	6.7	7.3	8.0	8.0	8.6	9.2
57.5°	4.3	5.0	5.0	5.5	5.5	6.1	6.7	6.7	7.3	7.3	8.0
60°	3.7	4.3	5.0	5.0	5.0	5.5	5.5	6.1	6.1	6.7	6.7
62.5°	3.7	4.3	4.3	5.0	5.0	5.0	5.5	5.5	5.5	6.1	6.1
65°	3.7	3.7	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.5	5.5
67.5°	3.1	3.7	3.7	3.7	4.3	4.3	4.3	4.3	4.3	5.0	5.0
70°	3.1	3.1	3.7	3.7	3.7	3.7	3.7	4.3	4.3	4.3	4.3
72.5°	3.1	3.1	3.1	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	2.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	2.5	2.5	2.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9
85°	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.2	1.2	1.2
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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CATALOG NUMBER: LDSQA4A15927D010TE LAR35FL 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
2.5°	119.1	117.9	117.2	119.1	116.6	117.9	117.2	117.9
5°	102.6	101.3	100.7	102.6	100.1	101.3	100.1	101.3
7.5°	92.1	91.5	90.9	92.1	90.3	91.5	90.9	91.5
10°	83.5	82.9	82.3	84.2	82.3	83.5	82.9	83.5
12.5°	76.1	76.1	75.5	76.7	75.5	76.7	76.1	76.7
15°	69.4	70.0	69.4	70.6	70.0	71.2	70.6	71.9
17.5°	63.9	64.4	64.4	66.3	65.6	67.5	66.9	67.5
20°	58.3	58.9	59.5	60.8	60.8	62.6	62.0	63.3
22.5°	52.8	54.1	54.1	55.8	55.8	57.7	57.7	58.3
25°	47.2	49.1	49.7	51.0	51.6	53.4	53.4	54.1
27.5°	43.0	44.2	44.8	46.6	47.2	49.1	49.1	50.3
30°	38.0	39.9	40.5	41.8	42.4	44.2	44.2	45.4
32.5°	33.8	34.9	36.2	37.4	38.0	39.9	39.9	41.1
35°	29.5	31.3	31.9	33.2	34.4	36.2	36.2	37.4
37.5°	25.7	27.6	28.2	29.5	30.7	32.6	32.6	33.8
40°	22.7	24.6	25.1	26.4	27.0	29.5	29.5	30.1
42.5°	20.3	21.5	22.1	23.4	24.0	25.1	25.1	26.4
45°	17.2	18.4	19.0	19.6	20.9	22.1	22.1	22.7
47.5°	14.8	15.9	16.5	17.2	17.8	19.0	19.0	20.3
50°	12.9	13.5	14.2	14.8	15.3	16.5	16.5	17.2
52.5°	11.1	11.7	12.3	12.9	13.5	14.2	14.8	15.3
55°	9.8	10.4	10.4	11.1	11.7	12.3	12.3	12.9
57.5°	8.6	9.2	9.2	9.2	9.8	10.4	10.4	11.1
60°	7.3	8.0	8.0	8.0	8.6	8.6	8.6	9.2
62.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.0	5.5
67.5°	5.0	5.0	5.0	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	3.7	3.7	3.7	3.1	3.1
72.5°	3.7	3.7	3.7	3.1	3.1	3.1	2.5	2.5
75°	3.1	3.1	3.1	3.1	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9
80°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
87.5°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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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1121 Highway 74 South

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)