

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: P1212284

Luminaire Tested: **LDSQA4A25940D010TE LAR35FL 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212284
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: LDSQA4A25940D010TE LAR35FL 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

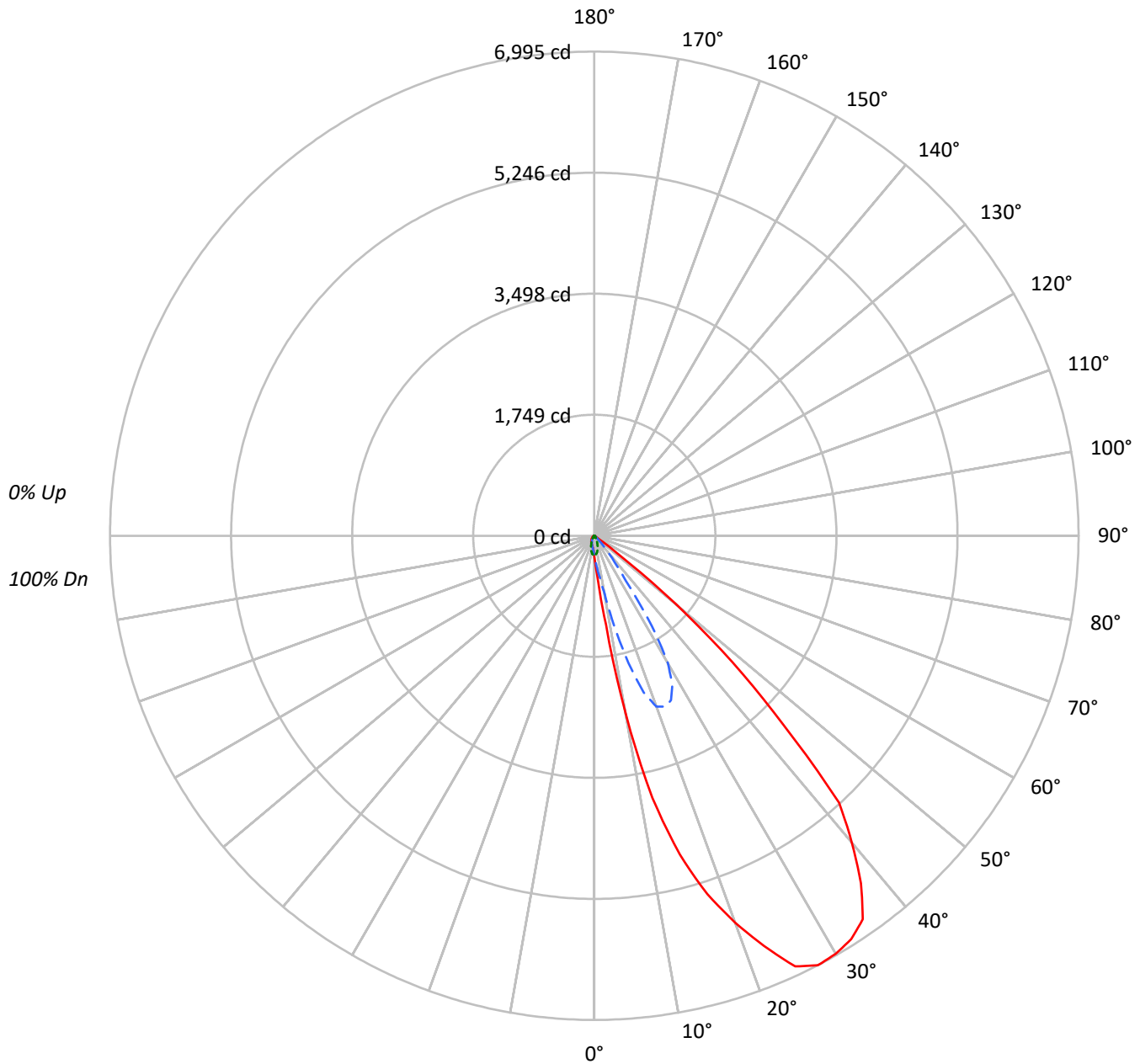
Lumens per Lamp: N/A
Luminaire Lumens: 2329.6 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.61 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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

TEST NUMBER: P1212284

CATALOG NUMBER: LDSQA4A25940D010TE LAR35FL 4LSQAL1H 30°

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27910	27910	27910
5°	65398	26334	18409
10°	258408	23137	15356
15°	478246	18534	13469
20°	613216	13485	12186
25°	733684	9567	10796
30°	780149	6287	9497
35°	799541	3808	8278
40°	731898	2466	7107
45°	528131	1740	5823
50°	230558	1387	4853
55°	15910	1165	4054
60°	2887	1104	3333
65°	1054	1054	2384
70°	963	1303	1614
75°	861	1722	1722
80°	0	2566	1897
85°	0	5113	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.8
10°-20°	329.7	14.2
20°-30°	690.3	29.6
30°-40°	768.4	33.0
40°-50°	441.1	18.9
50°-60°	44.1	1.9
60°-70°	6.9	0.3
70°-80°	4.4	0.2
80°-90°	2.7	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°	1062.0	45.6
0°-40°	1830.5	78.6
0°-60°	2315.7	99.4
0°-90°	2329.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	288	288	288	288	288	
5°	672	464	271	197	189	123
15°	4768	1904	185	130	134	1348
25°	6864	2620	90	79	101	3108
35°	6761	800	32	46	70	4128
45°	3855	96	13	25	42	2943
55°	94	14	7	15	24	281
65°	5	3	5	9	10	6
75°	2	2	5	6	5	2
85°	0	2	5	3	1	0
90°	0	0	0	0	0	

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CATALOG NUMBER: LDSQA4A25940D010TE LAR35FL 4LSQAL1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1
2.5°	430.4	421.2	412.1	406.3	400.5	408.6	402.8	400.5	384.5	376.4	369.5
5°	672.5	655.3	630.0	609.4	588.7	593.3	577.2	557.7	517.6	488.9	463.7
7.5°	1297.9	1255.5	1177.5	1101.7	1026.0	1012.2	961.7	874.5	762.0	677.1	603.7
10°	2626.9	2498.4	2354.9	2200.1	2018.7	1968.2	1843.1	1606.7	1348.4	1053.6	840.1
12.5°	3877.9	3819.3	3650.6	3449.7	3253.6	3133.0	3003.4	2613.1	2203.4	1728.4	1331.3
15°	4768.5	4732.9	4584.8	4402.3	4191.1	4113.1	3954.7	3565.7	3048.0	2480.0	1903.9
17.5°	5428.3	5367.4	5212.6	5014.0	4763.8	4697.3	4507.9	4121.1	3584.0	3013.7	2374.4
20°	5948.2	5910.3	5709.5	5470.8	5171.2	5090.9	4869.4	4466.6	3882.4	3276.5	2625.8
22.5°	6415.3	6351.0	6104.2	5819.6	5477.7	5391.6	5144.9	4703.0	4075.2	3400.4	2670.5
25°	6863.9	6766.5	6467.0	6093.9	5692.3	5575.2	5304.4	4836.1	4146.4	3410.8	2620.0
27.5°	6994.8	6945.4	6668.9	6235.1	5770.3	5638.3	5356.1	4866.0	4120.0	3316.6	2438.7
30°	6974.2	6932.9	6702.2	6248.9	5756.6	5617.6	5330.8	4774.1	3966.2	3071.1	2118.5
32.5°	6908.8	6892.7	6613.9	6129.6	5628.0	5476.5	5166.6	4545.8	3678.2	2696.9	1548.1
35°	6760.7	6697.6	6349.8	5894.2	5412.3	5245.8	4895.7	4218.7	3298.3	1963.6	799.9
37.5°	6326.9	6277.6	6003.3	5603.9	5134.6	4921.1	4551.5	3796.4	2553.5	1116.6	478.5
40°	5787.5	5763.4	5547.7	5190.8	4689.3	4448.2	4046.5	3106.7	1558.5	634.6	315.6
42.5°	5234.3	5227.4	4996.8	4623.8	4079.9	3803.2	3386.7	2095.6	828.5	383.3	182.5
45°	3854.9	3896.2	3735.5	3511.8	3096.3	2895.5	2354.9	1079.9	477.4	212.4	96.5
47.5°	2703.8	2657.9	2373.3	1982.0	1602.1	1356.5	1026.0	510.7	254.8	111.3	55.1
50°	1529.8	1537.9	1280.7	1036.3	679.4	538.3	408.6	257.0	122.8	58.5	33.3
52.5°	399.4	417.8	360.3	309.8	264.0	214.6	173.2	111.3	58.5	34.4	21.8
55°	94.2	97.6	90.6	84.9	80.4	71.1	63.1	48.2	32.2	21.8	13.8
57.5°	33.3	34.4	33.3	33.3	32.2	31.0	28.7	25.3	19.5	13.8	9.2
60°	14.9	16.1	14.9	16.1	16.1	16.1	16.1	16.1	11.5	8.0	5.7
62.5°	6.9	6.9	6.9	6.9	8.0	8.0	9.2	9.2	6.9	5.7	4.6
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.4
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3
80°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3
82.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.3	2.3	2.3
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°	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1
2.5°	356.9	355.8	343.1	334.0	329.4	322.5	314.5	302.9	290.3	278.9	274.3
5°	433.8	418.9	392.5	370.7	360.3	350.1	331.7	311.0	291.4	270.8	260.5
7.5°	533.7	490.0	438.4	398.3	381.0	363.9	337.4	308.7	282.4	254.8	239.8
10°	670.2	569.2	479.8	415.5	390.2	367.2	329.4	293.7	265.1	235.2	215.8
12.5°	958.2	708.1	523.3	423.4	390.2	360.3	314.5	273.1	241.0	210.0	191.6
15°	1380.6	956.0	618.6	431.6	382.2	344.3	291.4	246.7	212.4	184.8	167.5
17.5°	1721.4	1184.3	736.8	452.2	371.8	322.5	261.7	214.6	182.5	157.2	143.5
20°	1893.6	1280.7	790.7	455.6	346.6	288.1	226.0	181.3	152.7	130.8	119.3
22.5°	1890.1	1249.7	742.5	399.4	304.1	249.0	190.5	149.2	126.3	109.0	99.8
25°	1770.8	1106.3	619.8	319.0	245.6	206.6	154.9	120.5	102.1	89.5	81.5
27.5°	1547.0	898.5	462.5	236.4	191.6	163.0	120.5	96.5	81.5	72.3	66.6
30°	1214.1	601.4	291.4	175.5	145.8	122.8	93.0	74.6	64.3	56.2	52.8
32.5°	669.1	313.3	196.3	128.6	106.7	89.5	68.9	53.9	47.0	41.3	40.1
35°	369.5	221.5	140.0	86.1	71.1	60.8	47.0	39.0	34.4	32.2	32.2
37.5°	261.7	142.3	83.8	53.9	45.9	40.1	32.2	27.6	26.5	25.3	25.3
40°	157.2	83.8	50.5	35.5	31.0	27.6	24.0	20.7	20.7	19.5	20.7
42.5°	86.1	50.5	34.4	25.3	21.8	20.7	17.2	16.1	16.1	16.1	17.2
45°	51.6	33.3	24.0	18.4	16.1	13.8	12.7	11.5	12.7	12.7	13.8
47.5°	33.3	24.0	16.1	11.5	10.4	9.2	8.0	9.2	9.2	10.4	11.5
50°	23.0	14.9	10.4	6.9	6.9	5.7	6.9	6.9	8.0	9.2	10.4
52.5°	14.9	10.4	6.9	5.7	4.6	4.6	4.6	5.7	6.9	8.0	9.2
55°	9.2	6.9	5.7	4.6	4.6	4.6	4.6	4.6	5.7	6.9	8.0
57.5°	6.9	5.7	4.6	3.4	3.4	3.4	4.6	4.6	5.7	5.7	6.9
60°	4.6	4.6	3.4	3.4	3.4	3.4	3.4	4.6	4.6	5.7	6.9
62.5°	4.6	4.6	3.4	3.4	3.4	3.4	4.6	4.6	4.6	5.7	5.7
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	5.7
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	5.7
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	5.7
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6
77.5°	2.3	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6
82.5°	2.3	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6
85°	2.3	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6	4.6
87.5°	2.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	4.6	4.6
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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CATALOG NUMBER: LDSQA4A25940D010TE LAR35FL 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1
2.5°	268.6	260.5	253.6	255.9	251.3	243.2	241.0	235.2	228.4	227.3	227.3
5°	249.0	236.4	226.0	224.9	220.4	211.2	208.9	203.1	197.4	196.3	195.1
7.5°	224.9	211.2	202.0	199.7	196.3	188.2	187.0	181.3	177.9	175.5	175.5
10°	200.8	188.2	180.2	179.0	176.7	169.8	168.7	164.2	160.7	159.4	158.3
12.5°	177.9	167.5	160.7	159.4	157.2	151.5	150.4	146.9	144.6	143.5	143.5
15°	156.1	146.9	141.1	140.0	138.9	133.1	133.1	130.8	129.7	129.7	130.8
17.5°	134.3	126.3	121.6	120.5	120.5	115.9	117.0	115.9	115.9	115.9	118.2
20°	112.5	105.5	102.1	103.2	101.0	99.8	101.0	101.0	101.0	103.2	106.7
22.5°	94.2	88.4	84.9	86.1	86.1	84.9	86.1	87.2	89.5	93.0	96.5
25°	76.9	72.3	71.1	72.3	72.3	72.3	74.6	76.9	79.2	82.7	86.1
27.5°	62.0	58.5	58.5	59.7	60.8	60.8	64.3	66.6	70.0	73.4	76.9
30°	49.3	48.2	48.2	50.5	50.5	51.6	56.2	58.5	60.8	64.3	67.7
32.5°	39.0	39.0	40.1	42.5	42.5	44.8	48.2	50.5	52.8	56.2	59.7
35°	32.2	33.3	34.4	35.5	36.7	37.8	41.3	43.6	45.9	49.3	51.6
37.5°	26.5	27.6	28.7	31.0	31.0	32.2	35.5	37.8	39.0	42.5	45.9
40°	21.8	23.0	24.0	26.5	26.5	27.6	31.0	32.2	33.3	36.7	40.1
42.5°	18.4	19.5	20.7	21.8	23.0	24.0	26.5	27.6	29.9	32.2	34.4
45°	14.9	16.1	17.2	18.4	19.5	20.7	21.8	24.0	25.3	27.6	29.9
47.5°	12.7	13.8	14.9	16.1	17.2	17.2	19.5	20.7	21.8	24.0	26.5
50°	11.5	12.7	13.8	13.8	14.9	16.1	17.2	18.4	19.5	20.7	23.0
52.5°	9.2	10.4	11.5	12.7	12.7	13.8	14.9	16.1	17.2	18.4	19.5
55°	9.2	9.2	10.4	11.5	11.5	12.7	13.8	14.9	14.9	16.1	17.2
57.5°	8.0	9.2	9.2	10.4	10.4	11.5	12.7	12.7	13.8	13.8	14.9
60°	6.9	8.0	9.2	9.2	9.2	10.4	10.4	11.5	11.5	12.7	12.7
62.5°	6.9	8.0	8.0	9.2	9.2	9.2	10.4	10.4	10.4	11.5	11.5
65°	6.9	6.9	8.0	8.0	8.0	8.0	9.2	9.2	9.2	10.4	10.4
67.5°	5.7	6.9	6.9	6.9	8.0	8.0	8.0	8.0	8.0	9.2	9.2
70°	5.7	5.7	6.9	6.9	6.9	6.9	6.9	8.0	8.0	8.0	8.0
72.5°	5.7	5.7	5.7	5.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	4.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
77.5°	4.6	4.6	4.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.4	3.4
85°	4.6	4.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3
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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Peachtree City, GA 30269



TEST NUMBER: P1212284

CATALOG NUMBER: LDSQA4A25940D010TE LAR35FL 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	288.1	288.1	288.1	288.1	288.1	288.1	288.1	288.1
2.5°	222.7	220.4	219.2	222.7	218.1	220.4	219.2	220.4
5°	191.6	189.3	188.2	191.6	187.0	189.3	187.0	189.3
7.5°	172.1	171.0	169.8	172.1	168.7	171.0	169.8	171.0
10°	156.1	154.9	153.8	157.2	153.8	156.1	154.9	156.1
12.5°	142.3	142.3	141.1	143.5	141.1	143.5	142.3	143.5
15°	129.7	130.8	129.7	132.0	130.8	133.1	132.0	134.3
17.5°	119.3	120.5	120.5	123.9	122.8	126.3	125.1	126.3
20°	109.0	110.2	111.3	113.6	113.6	117.0	115.9	118.2
22.5°	98.7	101.0	101.0	104.4	104.4	107.8	107.8	109.0
25°	88.4	91.7	93.0	95.3	96.5	99.8	99.8	101.0
27.5°	80.4	82.7	83.8	87.2	88.4	91.7	91.7	94.2
30°	71.1	74.6	75.8	78.1	79.2	82.7	82.7	84.9
32.5°	63.1	65.4	67.7	70.0	71.1	74.6	74.6	76.9
35°	55.1	58.5	59.7	62.0	64.3	67.7	67.7	70.0
37.5°	48.2	51.6	52.8	55.1	57.3	60.8	60.8	63.1
40°	42.5	45.9	47.0	49.3	50.5	55.1	55.1	56.2
42.5°	37.8	40.1	41.3	43.6	44.8	47.0	47.0	49.3
45°	32.2	34.4	35.5	36.7	39.0	41.3	41.3	42.5
47.5°	27.6	29.9	31.0	32.2	33.3	35.5	35.5	37.8
50°	24.0	25.3	26.5	27.6	28.7	31.0	31.0	32.2
52.5°	20.7	21.8	23.0	24.0	25.3	26.5	27.6	28.7
55°	18.4	19.5	19.5	20.7	21.8	23.0	23.0	24.0
57.5°	16.1	17.2	17.2	17.2	18.4	19.5	19.5	20.7
60°	13.8	14.9	14.9	14.9	16.1	16.1	16.1	17.2
62.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
65°	10.4	10.4	10.4	10.4	10.4	10.4	9.2	10.4
67.5°	9.2	9.2	9.2	8.0	8.0	8.0	8.0	8.0
70°	8.0	8.0	8.0	6.9	6.9	6.9	5.7	5.7
72.5°	6.9	6.9	6.9	5.7	5.7	5.7	4.6	4.6
75°	5.7	5.7	5.7	5.7	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.4	3.4
80°	4.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1
87.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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