

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: P1212286

Luminaire Tested: **LDSQA4A30927D010TE 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: P1212286
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: LDSQA4A30927D010TE 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

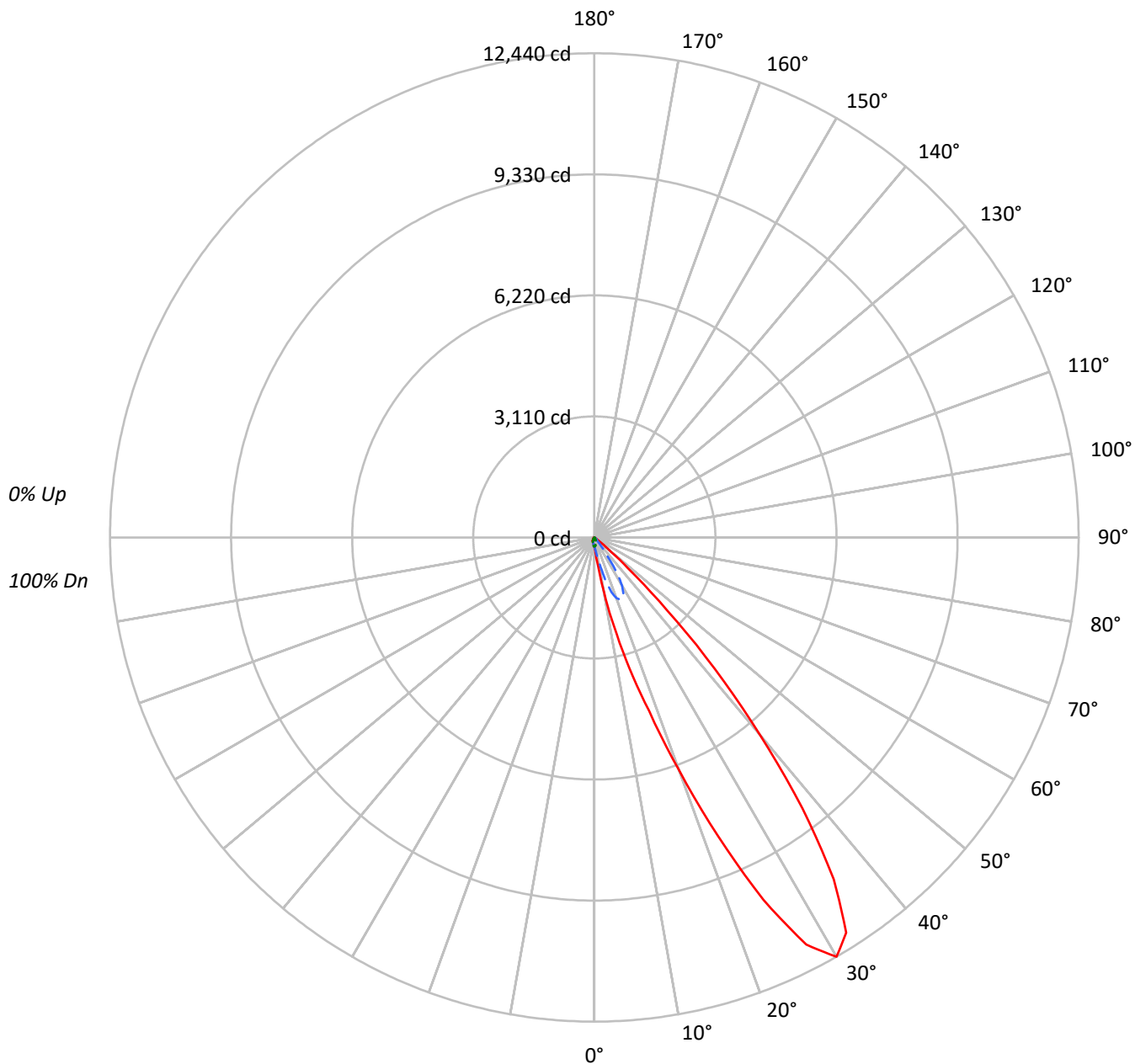
Lumens per Lamp: N/A
Luminaire Lumens: 2171.2 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.64 / 1.15
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	22708	22708	22708
5°	43498	21627	17563
10°	142213	19172	14942
15°	348267	15836	13189
20°	656195	12082	11835
25°	1098447	8562	10347
30°	1391520	5895	8826
35°	1267934	3820	7498
40°	835028	2719	6348
45°	361714	1795	5247
50°	64158	1266	4325
55°	10303	1013	3631
60°	2538	911	2790
65°	825	1077	2201
70°	680	1331	1699
75°	898	1347	1347
80°	0	2008	1339
85°	0	4001	1334

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	1.4
10°-20°	241.5	11.1
20°-30°	727.5	33.5
30°-40°	828.0	38.1
40°-50°	306.1	14.1
50°-60°	24.3	1.1
60°-70°	6.5	0.3
70°-80°	4.5	0.2
80°-90°	2.6	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°	999.1	46.0
0°-40°	1827.1	84.1
0°-60°	2157.5	99.4
0°-90°	2171.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	234	234	234	234	234	
5°	447	329	222	187	181	73
15°	3472	1173	158	124	132	1089
25°	10276	1715	80	78	97	4691
35°	10721	600	32	44	63	6374
45°	2640	70	13	24	38	2235
55°	61	13	6	14	22	100
65°	4	4	5	10	10	5
75°	2	4	4	6	4	2
85°	0	2	4	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°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	301.4	303.7	301.4	296.5	296.5	290.5	288.2	285.8	279.8	276.2	271.4
5°	447.3	440.0	434.0	419.7	414.9	401.8	392.2	379.1	361.1	345.6	328.8
7.5°	765.3	754.5	731.8	688.7	662.4	630.2	605.1	563.2	509.4	465.1	420.9
10°	1445.7	1399.1	1345.3	1248.4	1177.8	1102.5	1042.8	930.3	795.2	684.0	576.4
12.5°	2329.4	2333.0	2232.5	2068.7	1938.4	1805.6	1702.8	1494.8	1255.5	1046.3	839.5
15°	3472.5	3406.7	3302.8	3051.6	2791.0	2598.4	2434.6	2118.9	1780.5	1474.4	1173.1
17.5°	4676.7	4704.2	4461.5	4051.3	3638.7	3350.6	3103.1	2624.8	2222.9	1843.9	1475.6
20°	6365.1	6176.1	5829.4	5164.6	4523.6	4106.3	3739.2	3118.6	2557.8	2075.9	1662.1
22.5°	8311.8	8007.0	7301.4	6365.1	5395.3	4817.8	4306.0	3452.2	2770.6	2194.2	1725.5
25°	10276.4	10043.3	8919.3	7520.3	6130.7	5382.2	4719.7	3678.2	2872.2	2221.8	1714.8
27.5°	11792.8	11412.4	10131.8	8308.2	6569.6	5685.9	4912.2	3747.5	2850.8	2154.8	1613.1
30°	12439.6	11958.9	10539.6	8487.7	6573.2	5635.6	4816.6	3610.0	2697.6	1985.0	1421.8
32.5°	12040.3	11485.4	10054.1	7991.4	6123.6	5243.4	4447.1	3312.3	2444.2	1718.3	1067.8
35°	10721.3	10168.9	8842.8	7012.0	5406.1	4637.2	3944.8	2923.6	2081.8	1273.5	600.3
37.5°	8779.4	8308.2	7360.0	5877.2	4555.9	3931.7	3355.3	2463.3	1550.9	730.7	301.4
40°	6603.0	6271.8	5702.7	4661.1	3687.8	3213.0	2749.1	1887.0	942.3	367.1	171.0
42.5°	4577.4	4362.1	4076.4	3448.6	2844.8	2518.3	2146.4	1260.4	484.3	202.0	106.4
45°	2640.2	2505.1	2426.2	2158.4	1922.8	1763.8	1435.0	679.2	245.1	120.8	70.5
47.5°	1165.9	1076.2	1037.9	925.6	860.9	817.9	649.3	289.4	131.5	77.7	58.6
50°	425.7	425.7	426.9	375.5	307.4	276.2	216.4	127.9	74.1	61.0	43.1
52.5°	150.6	148.3	154.2	145.9	127.9	114.8	95.7	64.5	45.4	38.3	24.0
55°	61.0	58.6	61.0	57.4	53.8	50.2	44.3	34.7	28.7	24.0	13.1
57.5°	27.5	27.5	28.7	27.5	27.5	25.1	22.7	26.3	20.3	13.1	8.4
60°	13.1	13.1	14.4	14.4	14.4	13.1	13.1	14.4	12.0	8.4	6.0
62.5°	6.0	6.0	7.1	7.1	7.1	7.1	7.1	8.4	6.0	4.7	3.6
65°	3.6	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
77.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6
80°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	2.4
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.4	2.4
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°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	266.7	263.1	255.9	252.3	247.5	244.0	241.6	236.7	232.0	228.4	226.0
5°	313.3	300.1	284.6	272.7	263.1	257.1	247.5	239.1	229.6	222.4	216.4
7.5°	381.5	349.2	314.5	290.5	277.4	265.4	248.7	234.4	221.3	211.6	203.3
10°	487.8	418.6	357.5	310.9	288.2	271.4	245.1	224.8	208.0	194.9	186.6
12.5°	664.9	522.5	414.9	336.1	301.4	276.2	239.1	211.6	191.3	178.2	167.4
15°	907.6	675.6	493.8	365.9	316.9	281.0	229.6	196.1	173.3	157.9	148.3
17.5°	1136.0	835.9	583.5	401.8	332.4	283.4	216.4	175.8	151.9	137.5	127.9
20°	1279.5	939.9	643.3	422.1	337.2	276.2	198.5	154.2	130.3	117.2	107.6
22.5°	1312.9	951.8	638.6	403.0	316.9	254.7	173.3	132.8	110.1	98.1	89.7
25°	1263.9	884.9	571.6	347.9	270.3	214.0	144.6	107.6	90.9	80.1	74.1
27.5°	1140.7	753.4	452.0	261.8	202.0	157.9	110.1	83.7	73.0	64.5	61.0
30°	919.6	529.7	283.4	162.6	129.2	104.1	78.9	64.5	56.2	52.7	49.0
32.5°	557.2	272.7	149.5	96.8	81.4	70.5	57.4	47.8	43.1	40.7	39.4
35°	265.4	143.5	92.1	65.8	57.4	50.2	41.8	35.8	33.4	32.3	32.3
37.5°	150.6	93.2	62.1	44.3	39.4	34.7	31.1	27.5	26.3	26.3	26.3
40°	95.7	59.8	40.7	32.3	28.7	26.3	24.0	21.5	21.5	21.5	21.5
42.5°	62.1	43.1	31.1	24.0	21.5	20.3	18.0	16.7	16.7	16.7	18.0
45°	49.0	35.8	25.1	19.1	16.7	15.6	14.4	13.1	13.1	13.1	14.4
47.5°	41.8	25.1	16.7	13.1	10.7	10.7	9.6	9.6	9.6	10.7	12.0
50°	25.1	15.6	10.7	8.4	7.1	7.1	7.1	7.1	7.1	8.4	9.6
52.5°	14.4	9.6	7.1	6.0	4.7	4.7	4.7	4.7	6.0	7.1	7.1
55°	9.6	7.1	4.7	4.7	3.6	3.6	3.6	4.7	4.7	6.0	7.1
57.5°	6.0	4.7	3.6	3.6	3.6	3.6	3.6	3.6	4.7	6.0	6.0
60°	4.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	4.7	6.0
62.5°	3.6	3.6	4.7	3.6	3.6	3.6	3.6	3.6	4.7	4.7	6.0
65°	3.6	3.6	4.7	4.7	3.6	3.6	3.6	3.6	3.6	4.7	6.0
67.5°	3.6	3.6	4.7	4.7	4.7	4.7	3.6	3.6	3.6	4.7	4.7
70°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	4.7	4.7
72.5°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	4.7	4.7
75°	3.6	3.6	4.7	4.7	4.7	4.7	4.7	3.6	3.6	3.6	4.7
77.5°	3.6	3.6	4.7	4.7	4.7	4.7	4.7	3.6	3.6	3.6	4.7
80°	3.6	3.6	3.6	4.7	3.6	4.7	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	222.4	220.0	216.4	215.3	216.4	215.3	209.3	208.0	205.7	205.7	205.7
5°	210.4	206.9	202.0	199.7	199.7	197.3	191.3	190.2	186.6	186.6	185.3
7.5°	196.1	191.3	185.3	182.9	182.9	180.6	174.6	172.2	169.8	169.8	168.6
10°	179.3	173.3	167.4	166.2	165.0	161.5	157.9	156.6	153.1	154.2	153.1
12.5°	160.2	155.5	150.6	148.3	148.3	144.6	142.3	141.1	139.9	139.9	139.9
15°	142.3	136.3	131.5	130.3	130.3	129.2	126.8	126.8	124.4	126.8	126.8
17.5°	121.9	117.2	115.9	113.6	114.8	113.6	111.2	112.4	112.4	113.6	114.8
20°	102.8	99.2	98.1	96.8	98.1	98.1	96.8	98.1	99.2	102.8	105.2
22.5°	86.1	83.7	83.7	82.5	83.7	84.9	83.7	86.1	88.5	90.9	94.5
25°	71.8	70.5	70.5	70.5	71.8	73.0	74.1	76.5	77.7	81.4	83.7
27.5°	58.6	58.6	58.6	59.8	61.0	62.1	63.4	67.0	68.1	71.8	74.1
30°	49.0	47.8	49.0	50.2	51.4	53.8	55.0	57.4	58.6	62.1	64.5
32.5°	39.4	40.7	41.8	43.1	44.3	45.4	46.7	49.0	51.4	53.8	56.2
35°	33.4	33.4	34.7	35.8	37.1	39.4	40.7	41.8	44.3	46.7	47.8
37.5°	27.5	28.7	29.9	31.1	32.3	33.4	34.7	35.8	37.1	39.4	41.8
40°	22.7	24.0	25.1	26.3	26.3	28.7	28.7	31.1	32.3	34.7	37.1
42.5°	19.1	20.3	21.5	22.7	22.7	24.0	25.1	26.3	27.5	29.9	32.3
45°	15.6	16.7	18.0	19.1	19.1	20.3	21.5	22.7	24.0	26.3	27.5
47.5°	13.1	14.4	15.6	16.7	16.7	18.0	19.1	20.3	20.3	22.7	24.0
50°	10.7	12.0	13.1	14.4	14.4	15.6	16.7	18.0	18.0	19.1	20.3
52.5°	8.4	9.6	12.0	12.0	13.1	14.4	14.4	15.6	15.6	16.7	18.0
55°	8.4	9.6	10.7	10.7	12.0	13.1	13.1	14.4	14.4	14.4	15.6
57.5°	7.1	8.4	9.6	10.7	10.7	12.0	12.0	12.0	12.0	13.1	13.1
60°	7.1	8.4	8.4	9.6	9.6	10.7	10.7	10.7	10.7	12.0	12.0
62.5°	7.1	7.1	8.4	8.4	9.6	9.6	9.6	10.7	10.7	10.7	10.7
65°	6.0	7.1	8.4	8.4	8.4	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	6.0	7.1	7.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
70°	6.0	6.0	7.1	7.1	7.1	8.4	8.4	8.4	7.1	8.4	7.1
72.5°	4.7	6.0	6.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	4.7	6.0	6.0	6.0	6.0	7.1	7.1	6.0	6.0	6.0	6.0
77.5°	4.7	4.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.7
80°	4.7	4.7	4.7	4.7	6.0	6.0	4.7	4.7	4.7	4.7	4.7
82.5°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	3.6
85°	3.6	3.6	4.7	4.7	4.7	4.7	3.6	3.6	3.6	3.6	2.4
87.5°	3.6	3.6	3.6	4.7	3.6	3.6	3.6	3.6	2.4	2.4	2.4
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: LDSQA4A30927D010TE LAR15SP 4LSQA1H-LSF-20 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	234.4	234.4	234.4	234.4	234.4	234.4	234.4	234.4
2.5°	202.0	200.9	202.0	200.9	200.9	202.0	198.5	200.9
5°	182.9	180.6	181.7	180.6	179.3	180.6	178.2	180.6
7.5°	166.2	165.0	165.0	165.0	163.8	165.0	162.6	165.0
10°	151.9	150.6	150.6	150.6	150.6	151.9	149.5	151.9
12.5°	137.5	137.5	138.8	137.5	138.8	139.9	137.5	139.9
15°	125.5	126.8	127.9	127.9	129.2	130.3	129.2	131.5
17.5°	115.9	117.2	119.6	119.6	120.8	123.2	121.9	124.4
20°	106.4	107.6	110.1	110.1	111.2	113.6	112.4	114.8
22.5°	95.7	98.1	99.2	100.5	101.6	104.1	102.8	105.2
25°	84.9	88.5	89.7	90.9	92.1	94.5	94.5	96.8
27.5°	76.5	78.9	80.1	81.4	83.7	86.1	86.1	87.2
30°	67.0	69.4	71.8	73.0	74.1	76.5	76.5	78.9
32.5°	58.6	61.0	62.1	63.4	65.8	68.1	69.4	70.5
35°	50.2	53.8	55.0	57.4	58.6	62.1	62.1	63.4
37.5°	44.3	46.7	49.0	50.2	52.7	55.0	55.0	57.4
40°	39.4	41.8	43.1	44.3	46.7	49.0	49.0	50.2
42.5°	33.4	37.1	38.3	39.4	40.7	43.1	44.3	45.4
45°	29.9	31.1	32.3	33.4	34.7	37.1	37.1	38.3
47.5°	25.1	26.3	27.5	28.7	29.9	31.1	32.3	33.4
50°	21.5	22.7	24.0	24.0	25.1	27.5	27.5	28.7
52.5°	18.0	19.1	20.3	20.3	21.5	24.0	24.0	25.1
55°	15.6	16.7	18.0	18.0	19.1	20.3	20.3	21.5
57.5°	14.4	14.4	15.6	15.6	16.7	16.7	18.0	18.0
60°	12.0	13.1	13.1	13.1	14.4	14.4	14.4	14.4
62.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	12.0
65°	9.6	9.6	9.6	9.6	9.6	9.6	8.4	9.6
67.5°	8.4	8.4	8.4	8.4	7.1	7.1	7.1	7.1
70°	7.1	7.1	7.1	7.1	7.1	6.0	6.0	6.0
72.5°	6.0	6.0	6.0	6.0	6.0	4.7	4.7	4.7
75°	6.0	6.0	4.7	4.7	4.7	4.7	4.7	3.6
77.5°	4.7	4.7	4.7	4.7	3.6	3.6	3.6	3.6
80°	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4
82.5°	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
87.5°	1.2	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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(END OF REPORT)