

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: P1219499

Luminaire Tested: **LDSQA4A15940D010TE 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: P1219499
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: LDSQA4A15940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

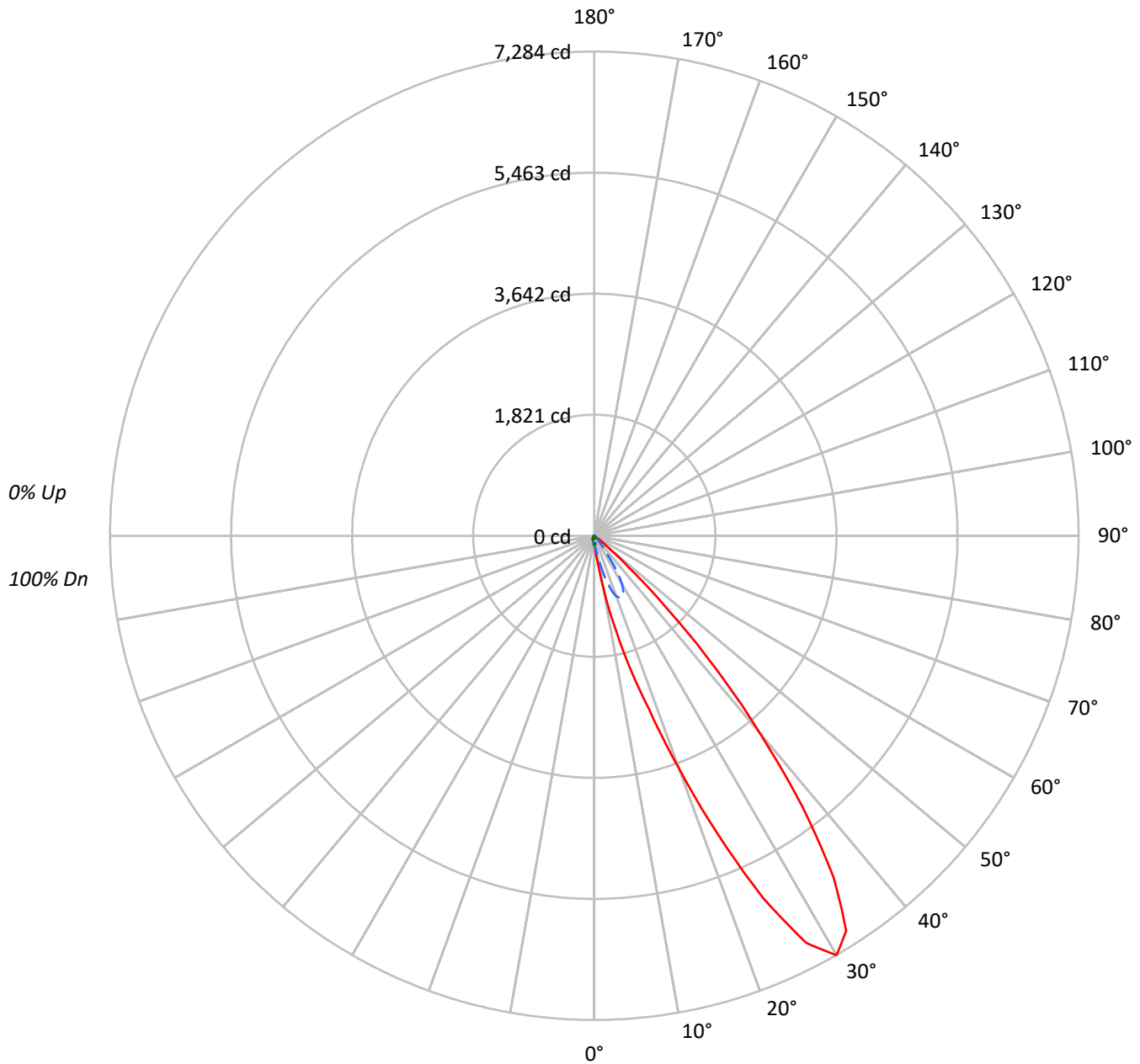
Lumens per Lamp: N/A
Luminaire Lumens: 1271.5 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.64 / 1.15
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
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	105	102		103	101	99		99	98	96		96	94	93
2	106	100	95	91	103	98	94	90		95	91	88		92	89	86		89	87	84
3	99	91	85	81	97	90	84	80		87	83	79		85	81	77		82	79	76
4	92	83	77	72	90	82	76	71		80	75	70		78	73	70		76	72	69
5	86	76	69	64	85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	70	63	58	79	69	62	57		67	61	57		66	61	57		64	60	56
7	75	64	57	52	74	63	57	52		62	56	51		61	55	51		59	55	51
8	70	59	52	47	69	58	51	47		57	51	46		56	50	46		55	50	46
9	66	54	47	42	65	54	47	42		53	46	42		52	46	42		51	46	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°	13291	13291	13291
5°	25469	12671	10279
10°	83270	11224	8745
15°	203945	9277	7723
20°	384268	7072	6928
25°	643244	5013	6061
30°	814860	3445	5168
35°	742491	2235	4388
40°	488978	1593	3718
45°	211820	1055	3069
50°	37572	754	2532
55°	6030	591	2128
60°	1492	543	1628
65°	481	642	1284
70°	397	793	991
75°	524	786	786
80°	0	1172	781
85°	0	2334	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	1.4
10°-20°	141.4	11.1
20°-30°	426.0	33.5
30°-40°	484.9	38.1
40°-50°	179.3	14.1
50°-60°	14.2	1.1
60°-70°	3.8	0.3
70°-80°	2.7	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°	585.0	46.0
0°-40°	1069.9	84.1
0°-60°	1263.4	99.4
0°-90°	1271.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	137	137	137	137	137	
5°	262	193	130	109	106	42
15°	2034	687	92	73	77	638
25°	6018	1004	47	46	57	2747
35°	6278	352	19	26	37	3733
45°	1546	41	8	14	22	1309
55°	36	8	4	8	13	58
65°	2	2	3	6	6	3
75°	1	2	2	4	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°	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2
2.5°	176.4	177.9	176.4	173.6	173.6	170.2	168.8	167.3	163.8	161.8	159.0
5°	261.9	257.7	254.2	245.8	242.9	235.3	229.7	222.0	211.5	202.4	192.6
7.5°	448.2	441.8	428.6	403.3	387.9	369.0	354.3	329.8	298.3	272.3	246.5
10°	846.5	819.2	787.7	731.0	689.7	645.6	610.6	544.8	465.7	400.6	337.5
12.5°	1364.0	1366.2	1307.3	1211.4	1135.0	1057.3	997.1	875.3	735.3	612.7	491.5
15°	2033.5	1994.9	1934.1	1787.0	1634.3	1521.6	1425.7	1240.8	1042.7	863.4	687.0
17.5°	2738.6	2754.7	2612.6	2372.3	2130.8	1962.1	1817.1	1537.0	1301.8	1079.8	864.1
20°	3727.4	3616.7	3413.6	3024.3	2648.9	2404.6	2189.6	1826.3	1497.8	1215.6	973.4
22.5°	4867.3	4688.7	4275.6	3727.4	3159.5	2821.2	2521.5	2021.6	1622.4	1284.9	1010.4
25°	6017.8	5881.3	5223.0	4403.7	3590.1	3151.8	2763.8	2153.9	1681.9	1301.1	1004.2
27.5°	6905.6	6683.0	5933.1	4865.3	3847.0	3329.6	2876.5	2194.5	1669.3	1261.9	944.7
30°	7284.5	7003.1	6171.9	4970.3	3849.2	3300.2	2820.5	2114.0	1579.7	1162.4	832.6
32.5°	7050.7	6725.8	5887.5	4679.6	3585.9	3070.5	2604.2	1939.6	1431.2	1006.2	625.3
35°	6278.3	5954.8	5178.2	4106.1	3165.7	2715.5	2310.1	1712.1	1219.1	745.8	351.5
37.5°	5141.1	4865.3	4310.0	3441.6	2667.9	2302.3	1964.9	1442.4	908.2	427.9	176.4
40°	3866.6	3672.7	3339.4	2729.5	2159.5	1881.5	1609.8	1104.9	551.8	214.9	100.1
42.5°	2680.5	2554.4	2387.1	2019.5	1665.9	1474.7	1256.9	738.0	283.6	118.3	62.4
45°	1546.1	1467.0	1420.7	1263.9	1125.9	1032.9	840.3	397.7	143.6	70.7	41.3
47.5°	682.7	630.2	607.8	542.0	504.2	479.0	380.3	169.5	77.0	45.5	34.4
50°	249.3	249.3	250.0	219.9	180.0	161.8	126.7	74.9	43.5	35.7	25.2
52.5°	88.2	86.8	90.3	85.4	74.9	67.2	56.0	37.8	26.6	22.4	14.0
55°	35.7	34.4	35.7	33.7	31.5	29.4	25.9	20.3	16.8	14.0	7.7
57.5°	16.1	16.1	16.8	16.1	16.1	14.8	13.3	15.4	11.9	7.7	5.0
60°	7.7	7.7	8.4	8.4	8.4	7.7	7.7	8.4	7.0	5.0	3.5
62.5°	3.5	3.5	4.2	4.2	4.2	4.2	4.2	5.0	3.5	2.8	2.1
65°	2.1	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
77.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4
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°	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2
2.5°	156.1	154.0	149.9	147.7	144.9	142.9	141.5	138.6	135.8	133.7	132.4
5°	183.4	175.7	166.6	159.7	154.0	150.6	144.9	140.1	134.4	130.3	126.7
7.5°	223.3	204.4	184.1	170.2	162.5	155.4	145.6	137.2	129.6	123.9	119.0
10°	285.7	245.1	209.4	182.1	168.8	159.0	143.6	131.7	121.9	114.1	109.2
12.5°	389.4	306.0	242.9	196.8	176.4	161.8	140.1	123.9	112.1	104.3	98.0
15°	531.4	395.6	289.2	214.2	185.5	164.5	134.4	114.8	101.6	92.5	86.8
17.5°	665.2	489.5	341.7	235.3	194.6	165.9	126.7	103.0	88.9	80.5	74.9
20°	749.2	550.3	376.7	247.2	197.5	161.8	116.2	90.3	76.3	68.6	63.1
22.5°	768.8	557.4	373.9	236.0	185.5	149.2	101.6	77.7	64.4	57.4	52.5
25°	740.1	518.2	334.7	203.7	158.3	125.3	84.7	63.1	53.3	46.9	43.5
27.5°	668.1	441.1	264.7	153.4	118.3	92.5	64.4	49.0	42.7	37.8	35.7
30°	538.5	310.2	165.9	95.2	75.6	60.9	46.2	37.8	32.9	30.8	28.7
32.5°	326.3	159.7	87.5	56.7	47.6	41.3	33.7	28.0	25.2	23.8	23.1
35°	155.4	84.1	54.0	38.5	33.7	29.4	24.6	21.0	19.6	18.9	18.9
37.5°	88.2	54.6	36.4	25.9	23.1	20.3	18.2	16.1	15.4	15.4	15.4
40°	56.0	35.0	23.8	18.9	16.8	15.4	14.0	12.6	12.6	12.6	12.6
42.5°	36.4	25.2	18.2	14.0	12.6	11.9	10.5	9.8	9.8	9.8	10.5
45°	28.7	21.0	14.8	11.2	9.8	9.1	8.4	7.7	7.7	7.7	8.4
47.5°	24.6	14.8	9.8	7.7	6.3	6.3	5.6	5.6	5.6	6.3	7.0
50°	14.8	9.1	6.3	5.0	4.2	4.2	4.2	4.2	4.2	5.0	5.6
52.5°	8.4	5.6	4.2	3.5	2.8	2.8	2.8	2.8	3.5	4.2	4.2
55°	5.6	4.2	2.8	2.8	2.1	2.1	2.1	2.8	2.8	3.5	4.2
57.5°	3.5	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	3.5
60°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5
62.5°	2.1	2.1	2.8	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5
65°	2.1	2.1	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.8	3.5
67.5°	2.1	2.1	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.8	2.8
70°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.8	2.8
72.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.8	2.8
75°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.8
77.5°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.8
80°	2.1	2.1	2.1	2.8	2.1	2.8	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2
2.5°	130.3	128.8	126.7	126.0	126.7	126.0	122.6	121.9	120.5	120.5	120.5
5°	123.3	121.2	118.3	116.9	116.9	115.5	112.1	111.4	109.2	109.2	108.5
7.5°	114.8	112.1	108.5	107.1	107.1	105.7	102.3	100.9	99.4	99.4	98.7
10°	105.0	101.6	98.0	97.3	96.6	94.5	92.5	91.8	89.6	90.3	89.6
12.5°	93.9	91.0	88.2	86.8	86.8	84.7	83.4	82.7	82.0	82.0	82.0
15°	83.4	79.8	77.0	76.3	76.3	75.6	74.2	74.2	72.9	74.2	74.2
17.5°	71.4	68.6	67.9	66.5	67.2	66.5	65.1	65.8	65.8	66.5	67.2
20°	60.2	58.1	57.4	56.7	57.4	57.4	56.7	57.4	58.1	60.2	61.6
22.5°	50.4	49.0	49.0	48.3	49.0	49.7	49.0	50.4	51.8	53.3	55.3
25°	42.0	41.3	41.3	41.3	42.0	42.7	43.5	44.8	45.5	47.6	49.0
27.5°	34.4	34.4	34.4	35.0	35.7	36.4	37.1	39.2	39.9	42.0	43.5
30°	28.7	28.0	28.7	29.4	30.1	31.5	32.2	33.7	34.4	36.4	37.8
32.5°	23.1	23.8	24.6	25.2	25.9	26.6	27.3	28.7	30.1	31.5	32.9
35°	19.6	19.6	20.3	21.0	21.7	23.1	23.8	24.6	25.9	27.3	28.0
37.5°	16.1	16.8	17.5	18.2	18.9	19.6	20.3	21.0	21.7	23.1	24.6
40°	13.3	14.0	14.8	15.4	15.4	16.8	16.8	18.2	18.9	20.3	21.7
42.5°	11.2	11.9	12.6	13.3	13.3	14.0	14.8	15.4	16.1	17.5	18.9
45°	9.1	9.8	10.5	11.2	11.2	11.9	12.6	13.3	14.0	15.4	16.1
47.5°	7.7	8.4	9.1	9.8	9.8	10.5	11.2	11.9	11.9	13.3	14.0
50°	6.3	7.0	7.7	8.4	8.4	9.1	9.8	10.5	10.5	11.2	11.9
52.5°	5.0	5.6	7.0	7.0	7.7	8.4	8.4	9.1	9.1	9.8	10.5
55°	5.0	5.6	6.3	6.3	7.0	7.7	7.7	8.4	8.4	8.4	9.1
57.5°	4.2	5.0	5.6	6.3	6.3	7.0	7.0	7.0	7.0	7.7	7.7
60°	4.2	5.0	5.0	5.6	5.6	6.3	6.3	6.3	6.3	7.0	7.0
62.5°	4.2	4.2	5.0	5.0	5.6	5.6	5.6	6.3	6.3	6.3	6.3
65°	3.5	4.2	5.0	5.0	5.0	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	3.5	4.2	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	3.5	3.5	4.2	4.2	4.2	5.0	5.0	5.0	4.2	5.0	4.2
72.5°	2.8	3.5	3.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.8	3.5	3.5	3.5	3.5	4.2	4.2	3.5	3.5	3.5	3.5
77.5°	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.8
80°	2.8	2.8	2.8	2.8	3.5	3.5	2.8	2.8	2.8	2.8	2.8
82.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1
85°	2.1	2.1	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.1	1.4
87.5°	2.1	2.1	2.1	2.8	2.1	2.1	2.1	2.1	1.4	1.4	1.4
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: LDSQA4A15940D010TE LAR15SP 4LSQA1H-LSF-20 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2
2.5°	118.3	117.6	118.3	117.6	117.6	118.3	116.2	117.6
5°	107.1	105.7	106.4	105.7	105.0	105.7	104.3	105.7
7.5°	97.3	96.6	96.6	96.6	95.9	96.6	95.2	96.6
10°	88.9	88.2	88.2	88.2	88.2	88.9	87.5	88.9
12.5°	80.5	80.5	81.2	80.5	81.2	82.0	80.5	82.0
15°	73.6	74.2	74.9	74.9	75.6	76.3	75.6	77.0
17.5°	67.9	68.6	70.0	70.0	70.7	72.2	71.4	72.9
20°	62.4	63.1	64.4	64.4	65.1	66.5	65.8	67.2
22.5°	56.0	57.4	58.1	58.8	59.5	60.9	60.2	61.6
25°	49.7	51.8	52.5	53.3	54.0	55.3	55.3	56.7
27.5°	44.8	46.2	46.9	47.6	49.0	50.4	50.4	51.1
30°	39.2	40.6	42.0	42.7	43.5	44.8	44.8	46.2
32.5°	34.4	35.7	36.4	37.1	38.5	39.9	40.6	41.3
35°	29.4	31.5	32.2	33.7	34.4	36.4	36.4	37.1
37.5°	25.9	27.3	28.7	29.4	30.8	32.2	32.2	33.7
40°	23.1	24.6	25.2	25.9	27.3	28.7	28.7	29.4
42.5°	19.6	21.7	22.4	23.1	23.8	25.2	25.9	26.6
45°	17.5	18.2	18.9	19.6	20.3	21.7	21.7	22.4
47.5°	14.8	15.4	16.1	16.8	17.5	18.2	18.9	19.6
50°	12.6	13.3	14.0	14.0	14.8	16.1	16.1	16.8
52.5°	10.5	11.2	11.9	11.9	12.6	14.0	14.0	14.8
55°	9.1	9.8	10.5	10.5	11.2	11.9	11.9	12.6
57.5°	8.4	8.4	9.1	9.1	9.8	9.8	10.5	10.5
60°	7.0	7.7	7.7	7.7	8.4	8.4	8.4	8.4
62.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.0
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.0	5.6
67.5°	5.0	5.0	5.0	5.0	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8
75°	3.5	3.5	2.8	2.8	2.8	2.8	2.8	2.1
77.5°	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4
82.5°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)