

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: P1212370

Luminaire Tested: **LDSQA4A35935D010TE LAR15SP 4LSQA1H-LSF-20 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212370
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: LDSQA4A35935D010TE 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

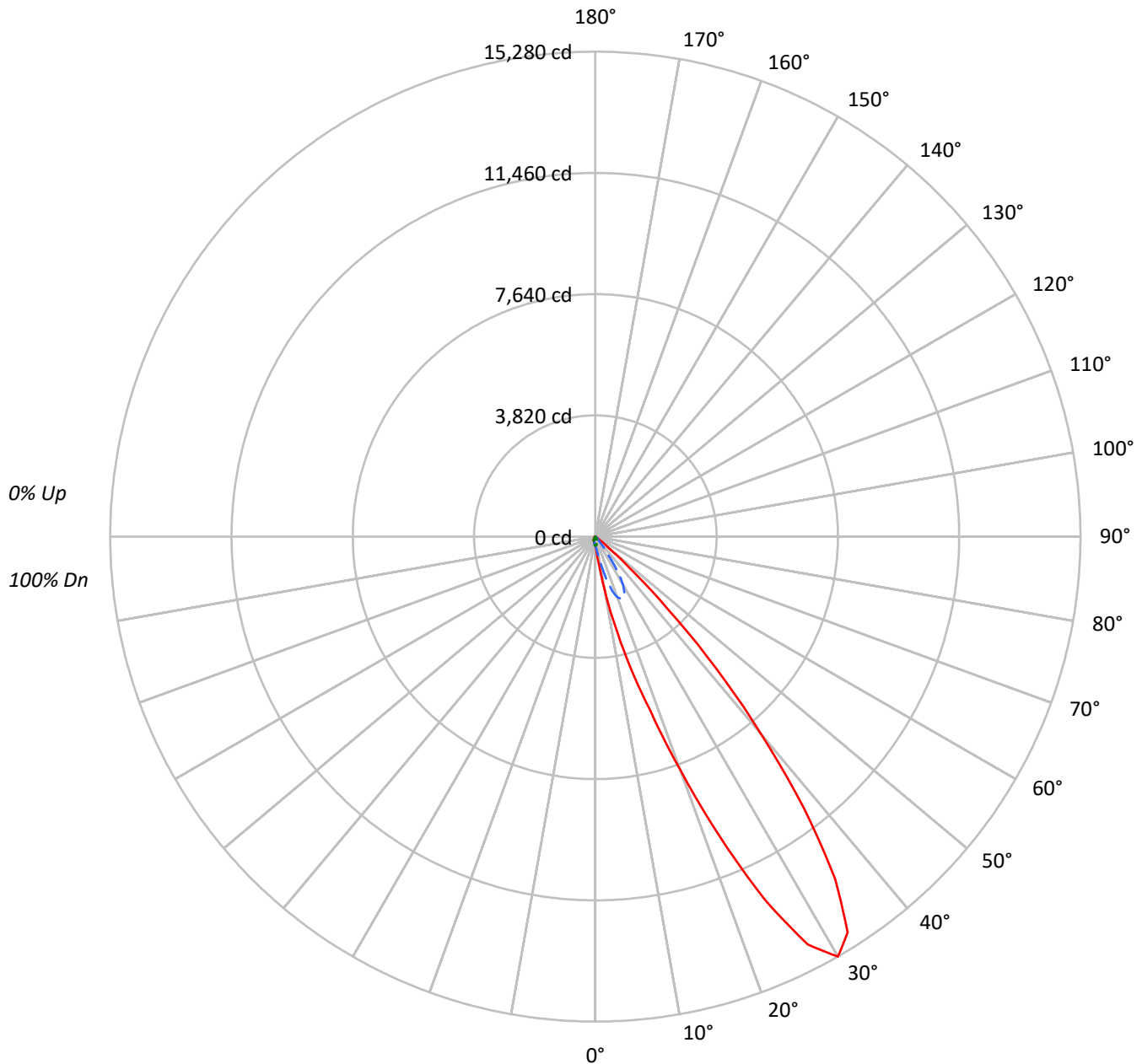
Lumens per Lamp: N/A
Luminaire Lumens: 2667.1 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.64 / 1.15
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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



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
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	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°	27890	27890	27890
5°	53427	26567	21569
10°	174675	23550	18356
15°	427789	19457	16207
20°	806020	14835	14536
25°	1349264	10518	12709
30°	1709264	7237	10839
35°	1557454	4695	9201
40°	1025707	3339	7790
45°	444313	2206	6439
50°	78792	1537	5305
55°	12650	1250	4459
60°	3119	1143	3410
65°	1032	1352	2682
70°	821	1671	2096
75°	1085	1684	1684
80°	0	2510	1618
85°	0	5002	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	1.4
10°-20°	296.7	11.1
20°-30°	893.6	33.5
30°-40°	1017.1	38.1
40°-50°	376.0	14.1
50°-60°	29.9	1.1
60°-70°	8.0	0.3
70°-80°	5.6	0.2
80°-90°	3.3	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°	1227.2	46.0
0°-40°	2244.3	84.1
0°-60°	2650.2	99.4
0°-90°	2667.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	288	288	288	288	288	
5°	549	404	273	229	222	89
15°	4265	1441	194	153	162	1338
25°	12623	2106	98	96	119	5762
35°	13169	737	40	54	78	7830
45°	3243	87	16	29	47	2746
55°	75	16	7	18	26	123
65°	4	4	6	12	12	6
75°	3	4	4	7	4	2
85°	0	3	4	4	2	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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	370.2	373.0	370.2	364.3	364.3	356.9	354.0	351.1	343.8	339.3	333.4
5°	549.4	540.6	533.2	515.6	509.7	493.6	481.7	465.5	443.6	424.4	403.9
7.5°	940.0	926.7	898.9	846.1	813.7	774.1	743.2	691.8	625.8	571.3	517.1
10°	1775.7	1718.4	1652.4	1533.4	1446.9	1354.2	1280.8	1142.8	976.7	840.2	708.0
12.5°	2861.2	2865.7	2742.3	2541.0	2381.0	2217.9	2091.6	1836.0	1542.3	1285.2	1031.1
15°	4265.4	4184.7	4056.8	3748.5	3428.2	3191.7	2990.5	2602.7	2187.0	1811.1	1440.9
17.5°	5744.5	5778.3	5480.2	4976.4	4469.6	4115.6	3811.5	3224.0	2730.5	2265.0	1812.5
20°	7818.4	7586.4	7160.5	6343.8	5556.5	5043.9	4592.9	3830.7	3141.8	2549.8	2041.7
22.5°	10209.8	9835.1	8968.6	7818.4	6627.3	5917.9	5289.2	4240.4	3403.3	2695.3	2119.5
25°	12622.9	12336.6	10955.8	9237.4	7530.7	6611.1	5797.4	4518.0	3528.1	2729.0	2106.3
27.5°	14485.4	14018.4	12445.3	10205.3	8069.6	6984.2	6033.9	4603.2	3501.7	2646.8	1981.4
30°	15280.1	14689.6	12946.0	10425.6	8074.0	6922.5	5916.4	4434.4	3313.6	2438.3	1746.5
32.5°	14789.4	14107.9	12349.8	9816.1	7521.7	6440.7	5462.6	4068.7	3002.2	2110.6	1311.7
35°	13169.4	12490.7	10861.9	8613.1	6640.6	5696.0	4845.7	3591.3	2557.2	1564.3	737.3
37.5°	10784.0	10205.3	9040.6	7219.3	5596.2	4829.5	4121.5	3025.8	1905.0	897.5	370.2
40°	8110.8	7704.0	7004.8	5725.5	4529.7	3946.7	3376.8	2317.8	1157.3	451.0	209.9
42.5°	5622.6	5358.2	5007.1	4236.0	3494.3	3093.3	2636.5	1548.2	594.9	248.2	130.7
45°	3243.1	3077.1	2980.3	2651.3	2361.9	2166.5	1762.6	834.2	301.2	148.3	86.7
47.5°	1432.1	1321.9	1274.9	1136.9	1057.5	1004.7	797.6	355.4	161.6	95.6	72.0
50°	522.8	522.8	524.4	461.2	377.5	339.3	265.8	157.2	91.0	74.9	52.9
52.5°	185.0	182.1	189.5	179.2	157.2	141.0	117.5	79.4	55.8	47.0	29.4
55°	74.9	72.0	74.9	70.6	66.1	61.6	54.4	42.6	35.2	29.4	16.1
57.5°	33.8	33.8	35.2	33.8	33.8	30.9	27.9	32.3	25.0	16.1	10.2
60°	16.1	16.1	17.6	17.6	17.6	16.1	16.1	17.6	14.7	10.2	7.4
62.5°	7.4	7.4	8.8	8.8	8.8	8.8	8.8	10.2	7.4	5.9	4.5
65°	4.5	2.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5	4.5
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5
77.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.5
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	2.9
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	2.9
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9
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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	327.6	323.1	314.3	310.0	304.0	299.6	296.7	290.8	285.0	280.5	277.6
5°	384.9	368.7	349.5	334.9	323.1	315.7	304.0	293.8	282.0	273.2	265.8
7.5°	468.6	428.9	386.3	356.9	340.7	326.2	305.5	287.9	271.7	260.0	249.7
10°	599.3	514.1	439.2	381.9	354.0	333.4	301.2	276.1	255.6	239.4	229.1
12.5°	816.7	641.9	509.7	412.7	370.2	339.3	293.8	260.0	235.1	218.9	205.6
15°	1114.8	829.9	606.7	449.5	389.2	345.2	282.0	240.8	213.0	194.0	182.1
17.5°	1395.3	1026.7	716.8	493.6	408.4	348.1	265.8	215.9	186.6	168.8	157.2
20°	1571.7	1154.5	790.2	518.5	414.2	339.3	243.9	189.5	160.0	143.9	132.2
22.5°	1612.8	1169.2	784.3	495.0	389.2	312.9	213.0	163.1	135.0	120.5	110.1
25°	1552.5	1087.0	702.0	427.4	331.9	262.9	177.8	132.2	111.7	98.4	91.0
27.5°	1401.2	925.3	555.2	321.6	248.2	194.0	135.0	102.8	89.6	79.4	74.9
30°	1129.5	650.7	348.1	199.7	158.6	127.8	96.9	79.4	69.0	64.7	60.2
32.5°	684.4	334.9	183.6	118.9	99.9	86.7	70.6	58.8	52.9	49.9	48.5
35°	326.2	176.2	113.2	80.8	70.6	61.6	51.4	44.0	41.1	39.7	39.7
37.5°	185.0	114.6	76.4	54.4	48.5	42.6	38.3	33.8	32.3	32.3	32.3
40°	117.5	73.4	49.9	39.7	35.2	32.3	29.4	26.4	26.4	26.4	26.4
42.5°	76.4	52.9	38.3	29.4	26.4	25.0	22.0	20.5	20.5	20.5	22.0
45°	60.2	44.0	30.9	23.5	20.5	19.1	17.6	16.1	16.1	16.1	17.6
47.5°	51.4	30.9	20.5	16.1	13.3	13.3	11.7	11.7	11.7	13.3	14.7
50°	30.9	19.1	13.3	10.2	8.8	8.8	8.8	8.8	8.8	10.2	11.7
52.5°	17.6	11.7	8.8	7.4	5.9	5.9	5.9	5.9	7.4	8.8	8.8
55°	11.7	8.8	5.9	5.9	4.5	4.5	4.5	5.9	5.9	7.4	8.8
57.5°	7.4	5.9	4.5	4.5	4.5	4.5	4.5	4.5	5.9	7.4	7.4
60°	5.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	5.9	7.4
62.5°	4.5	4.5	5.9	4.5	4.5	4.5	4.5	4.5	5.9	5.9	7.4
65°	4.5	4.5	5.9	5.9	4.5	4.5	4.5	4.5	4.5	5.9	7.4
67.5°	4.5	4.5	5.9	5.9	5.9	5.9	4.5	4.5	4.5	5.9	5.9
70°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	5.9	5.9
72.5°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	5.9	5.9
75°	4.5	4.5	5.9	5.9	5.9	5.9	5.9	4.5	4.5	4.5	5.9
77.5°	4.5	4.5	5.9	5.9	5.9	5.9	5.9	4.5	4.5	4.5	5.9
80°	4.5	4.5	4.5	5.9	4.5	5.9	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	273.2	270.3	265.8	264.4	265.8	264.4	257.0	255.6	252.7	252.7	252.7
5°	258.5	254.1	248.2	245.4	245.4	242.3	235.1	233.5	229.1	229.1	227.7
7.5°	240.8	235.1	227.7	224.7	224.7	221.8	214.5	211.6	208.6	208.6	207.1
10°	220.4	213.0	205.6	204.2	202.7	198.3	194.0	192.4	188.0	189.5	188.0
12.5°	196.8	190.9	185.0	182.1	182.1	177.8	174.8	173.3	171.8	171.8	171.8
15°	174.8	167.4	161.6	160.0	160.0	158.6	155.7	155.7	152.8	155.7	155.7
17.5°	149.8	143.9	142.4	139.6	141.0	139.6	136.7	138.1	138.1	139.6	141.0
20°	126.3	121.9	120.5	118.9	120.5	120.5	118.9	120.5	121.9	126.3	129.3
22.5°	105.8	102.8	102.8	101.3	102.8	104.3	102.8	105.8	108.7	111.7	116.0
25°	88.2	86.7	86.7	86.7	88.2	89.6	91.0	94.0	95.6	99.9	102.8
27.5°	72.0	72.0	72.0	73.4	74.9	76.4	77.8	82.3	83.7	88.2	91.0
30°	60.2	58.8	60.2	61.6	63.2	66.1	67.5	70.6	72.0	76.4	79.4
32.5°	48.5	49.9	51.4	52.9	54.4	55.8	57.3	60.2	63.2	66.1	69.0
35°	41.1	41.1	42.6	44.0	45.6	48.5	49.9	51.4	54.4	57.3	58.8
37.5°	33.8	35.2	36.6	38.3	39.7	41.1	42.6	44.0	45.6	48.5	51.4
40°	27.9	29.4	30.9	32.3	32.3	35.2	35.2	38.3	39.7	42.6	45.6
42.5°	23.5	25.0	26.4	27.9	27.9	29.4	30.9	32.3	33.8	36.6	39.7
45°	19.1	20.5	22.0	23.5	23.5	25.0	26.4	27.9	29.4	32.3	33.8
47.5°	16.1	17.6	19.1	20.5	20.5	22.0	23.5	25.0	25.0	27.9	29.4
50°	13.3	14.7	16.1	17.6	17.6	19.1	20.5	22.0	22.0	23.5	25.0
52.5°	10.2	11.7	14.7	14.7	16.1	17.6	17.6	19.1	19.1	20.5	22.0
55°	10.2	11.7	13.3	13.3	14.7	16.1	16.1	17.6	17.6	17.6	19.1
57.5°	8.8	10.2	11.7	13.3	13.3	14.7	14.7	14.7	14.7	16.1	16.1
60°	8.8	10.2	10.2	11.7	11.7	13.3	13.3	13.3	13.3	14.7	14.7
62.5°	8.8	8.8	10.2	10.2	11.7	11.7	11.7	13.3	13.3	13.3	13.3
65°	7.4	8.8	10.2	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7
67.5°	7.4	8.8	8.8	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
70°	7.4	7.4	8.8	8.8	8.8	10.2	10.2	10.2	8.8	10.2	8.8
72.5°	5.9	7.4	7.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	5.9	7.4	7.4	7.4	7.4	8.8	8.8	7.4	7.4	7.4	7.4
77.5°	5.9	5.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	5.9
80°	5.9	5.9	5.9	5.9	7.4	7.4	5.9	5.9	5.9	5.9	5.9
82.5°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	4.5
85°	4.5	4.5	5.9	5.9	5.9	5.9	4.5	4.5	4.5	4.5	2.9
87.5°	4.5	4.5	4.5	5.9	4.5	4.5	4.5	4.5	2.9	2.9	2.9
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: LDSQA4A35935D010TE LAR15SP 4LSQA1H-LSF-20 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9
2.5°	248.2	246.7	248.2	246.7	246.7	248.2	243.9	246.7
5°	224.7	221.8	223.2	221.8	220.4	221.8	218.9	221.8
7.5°	204.2	202.7	202.7	202.7	201.2	202.7	199.7	202.7
10°	186.6	185.0	185.0	185.0	185.0	186.6	183.6	186.6
12.5°	168.8	168.8	170.5	168.8	170.5	171.8	168.8	171.8
15°	154.2	155.7	157.2	157.2	158.6	160.0	158.6	161.6
17.5°	142.4	143.9	146.9	146.9	148.3	151.3	149.8	152.8
20°	130.7	132.2	135.0	135.0	136.7	139.6	138.1	141.0
22.5°	117.5	120.5	121.9	123.4	124.8	127.8	126.3	129.3
25°	104.3	108.7	110.1	111.7	113.2	116.0	116.0	118.9
27.5°	94.0	96.9	98.4	99.9	102.8	105.8	105.8	107.2
30°	82.3	85.1	88.2	89.6	91.0	94.0	94.0	96.9
32.5°	72.0	74.9	76.4	77.8	80.8	83.7	85.1	86.7
35°	61.6	66.1	67.5	70.6	72.0	76.4	76.4	77.8
37.5°	54.4	57.3	60.2	61.6	64.7	67.5	67.5	70.6
40°	48.5	51.4	52.9	54.4	57.3	60.2	60.2	61.6
42.5°	41.1	45.6	47.0	48.5	49.9	52.9	54.4	55.8
45°	36.6	38.3	39.7	41.1	42.6	45.6	45.6	47.0
47.5°	30.9	32.3	33.8	35.2	36.6	38.3	39.7	41.1
50°	26.4	27.9	29.4	29.4	30.9	33.8	33.8	35.2
52.5°	22.0	23.5	25.0	25.0	26.4	29.4	29.4	30.9
55°	19.1	20.5	22.0	22.0	23.5	25.0	25.0	26.4
57.5°	17.6	17.6	19.1	19.1	20.5	20.5	22.0	22.0
60°	14.7	16.1	16.1	16.1	17.6	17.6	17.6	17.6
62.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	14.7
65°	11.7	11.7	11.7	11.7	11.7	11.7	10.2	11.7
67.5°	10.2	10.2	10.2	10.2	8.8	8.8	8.8	8.8
70°	8.8	8.8	8.8	8.8	8.8	7.4	7.4	7.4
72.5°	7.4	7.4	7.4	7.4	7.4	5.9	5.9	5.9
75°	7.4	7.4	5.9	5.9	5.9	5.9	5.9	4.5
77.5°	5.9	5.9	5.9	5.9	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	2.9	2.9
82.5°	4.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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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Peachtree City, GA 30269

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)