

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: P1219471

Luminaire Tested: **LDSQA4A15930D010TE 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: P1219471
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: LDSQA4A15930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

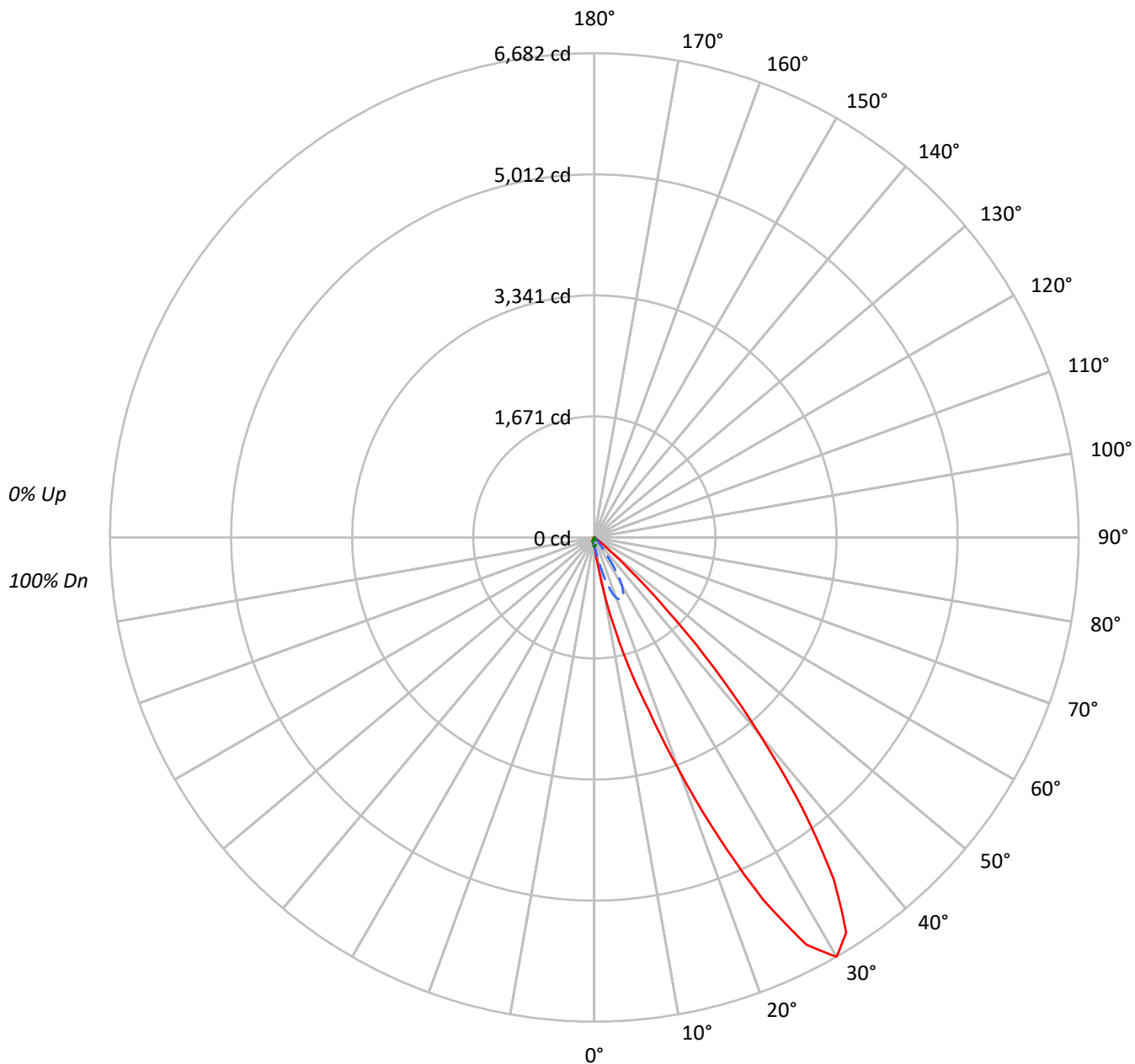
Lumens per Lamp: N/A
Luminaire Lumens: 1166.4 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.64 / 1.15
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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	105	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	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°	12197	12197	12197
5°	23368	11621	9433
10°	76404	10299	8027
15°	187096	8495	7091
20°	352505	6495	6361
25°	590077	4607	5569
30°	747519	3155	4743
35°	681124	2046	4033
40°	448586	1467	3414
45°	194324	959	2822
50°	34468	678	2321
55°	5540	540	1959
60°	1356	504	1492
65°	436	596	1169
70°	368	736	906
75°	487	711	711
80°	0	1060	725
85°	0	2112	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	1.4
10°-20°	129.7	11.1
20°-30°	390.8	33.5
30°-40°	444.8	38.1
40°-50°	164.5	14.1
50°-60°	13.1	1.1
60°-70°	3.5	0.3
70°-80°	2.5	0.2
80°-90°	1.4	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°	536.7	46.0
0°-40°	981.5	84.1
0°-60°	1159.0	99.4
0°-90°	1166.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	126	126	126	126	126	
5°	240	177	120	100	97	39
15°	1866	630	85	67	71	585
25°	5520	921	43	42	52	2520
35°	5759	322	17	24	34	3424
45°	1418	38	7	13	21	1201
55°	33	7	3	8	12	54
65°	2	2	3	5	5	3
75°	1	2	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°	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
2.5°	161.9	163.2	161.9	159.3	159.3	156.1	154.8	153.5	150.3	148.4	145.8
5°	240.3	236.4	233.1	225.4	222.9	215.8	210.7	203.6	194.0	185.6	176.6
7.5°	411.1	405.3	393.1	370.0	355.9	338.5	325.0	302.5	273.6	249.9	226.1
10°	776.7	751.6	722.7	670.6	632.7	592.2	560.1	499.8	427.2	367.4	309.6
12.5°	1251.4	1253.2	1199.3	1111.3	1041.3	970.0	914.8	803.0	674.5	562.0	450.9
15°	1865.5	1830.1	1774.2	1639.3	1499.3	1395.9	1307.9	1138.3	956.4	792.0	630.1
17.5°	2512.3	2527.1	2396.7	2176.3	1954.8	1799.9	1667.0	1410.0	1194.1	990.5	792.7
20°	3419.3	3317.8	3131.6	2774.4	2430.1	2205.9	2008.7	1675.3	1374.0	1115.1	892.9
22.5°	4465.1	4301.3	3922.3	3419.3	2898.3	2588.1	2313.1	1854.5	1488.4	1178.7	926.9
25°	5520.4	5395.2	4791.4	4039.8	3293.4	2891.3	2535.4	1975.9	1542.9	1193.5	921.2
27.5°	6335.0	6130.8	5442.7	4463.1	3529.2	3054.4	2638.8	2013.2	1531.4	1157.5	866.5
30°	6682.5	6424.3	5661.8	4559.5	3531.0	3027.4	2587.5	1939.3	1449.2	1066.3	763.8
32.5°	6468.0	6169.9	5401.0	4292.9	3289.6	2816.7	2389.0	1779.3	1313.0	923.1	573.6
35°	5759.4	5462.6	4750.3	3766.9	2904.2	2491.1	2119.2	1570.5	1118.4	684.1	322.4
37.5°	4716.3	4463.1	3953.8	3157.2	2447.4	2112.1	1802.5	1323.2	833.2	392.4	161.9
40°	3547.2	3369.2	3063.5	2503.9	1981.1	1726.1	1476.8	1013.7	506.2	197.2	91.9
42.5°	2459.0	2343.3	2189.8	1852.6	1528.2	1352.8	1153.1	677.1	260.2	108.6	57.1
45°	1418.4	1345.7	1303.3	1159.5	1033.0	947.5	770.8	364.8	131.7	64.8	37.9
47.5°	626.3	578.2	557.6	497.2	462.5	439.4	348.8	155.4	70.7	41.8	31.5
50°	228.7	228.7	229.3	201.7	165.1	148.4	116.2	68.7	39.8	32.8	23.2
52.5°	81.0	79.7	82.9	78.4	68.7	61.7	51.4	34.6	24.5	20.6	12.9
55°	32.8	31.5	32.8	30.8	28.9	27.0	23.8	18.6	15.4	12.9	7.0
57.5°	14.8	14.8	15.4	14.8	14.8	13.5	12.2	14.2	10.9	7.0	4.5
60°	7.0	7.0	7.7	7.7	7.7	7.0	7.0	7.7	6.4	4.5	3.2
62.5°	3.2	3.2	3.9	3.9	3.9	3.9	3.9	4.5	3.2	2.6	1.9
65°	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
77.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9
80°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3	1.3
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°	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
2.5°	143.3	141.3	137.5	135.5	133.0	131.1	129.8	127.2	124.6	122.7	121.4
5°	168.3	161.3	152.9	146.4	141.3	138.1	133.0	128.5	123.4	119.5	116.2
7.5°	204.9	187.6	168.9	156.1	149.0	142.6	133.6	125.9	118.8	113.7	109.2
10°	262.1	224.8	192.1	167.0	154.8	145.8	131.7	120.8	111.8	104.7	100.2
12.5°	357.2	280.7	222.9	180.5	161.9	148.4	128.5	113.7	102.8	95.7	89.9
15°	487.6	362.9	265.3	196.5	170.2	151.0	123.4	105.3	93.2	84.7	79.7
17.5°	610.2	449.0	313.4	215.8	178.6	152.3	116.2	94.4	81.6	73.9	68.7
20°	687.4	504.9	345.6	226.7	181.2	148.4	106.6	82.9	70.0	63.0	57.8
22.5°	705.3	511.3	343.0	216.5	170.2	136.8	93.2	71.3	59.1	52.7	48.2
25°	678.9	475.4	307.1	186.9	145.1	114.9	77.7	57.8	48.8	43.1	39.8
27.5°	612.8	404.7	242.8	140.7	108.6	84.7	59.1	44.9	39.2	34.6	32.8
30°	494.0	284.5	152.3	87.3	69.4	55.9	42.4	34.6	30.2	28.2	26.3
32.5°	299.4	146.4	80.3	52.1	43.7	37.9	30.8	25.7	23.2	21.9	21.2
35°	142.6	77.1	49.5	35.3	30.8	27.0	22.5	19.3	18.0	17.3	17.3
37.5°	81.0	50.1	33.4	23.8	21.2	18.6	16.7	14.8	14.2	14.2	14.2
40°	51.4	32.1	21.9	17.3	15.4	14.2	12.9	11.6	11.6	11.6	11.6
42.5°	33.4	23.2	16.7	12.9	11.6	10.9	9.6	9.0	9.0	9.0	9.6
45°	26.3	19.3	13.5	10.3	9.0	8.3	7.7	7.0	7.0	7.0	7.7
47.5°	22.5	13.5	9.0	7.0	5.7	5.7	5.1	5.1	5.1	5.7	6.4
50°	13.5	8.3	5.7	4.5	3.9	3.9	3.9	3.9	3.9	4.5	5.1
52.5°	7.7	5.1	3.9	3.2	2.6	2.6	2.6	2.6	3.2	3.9	3.9
55°	5.1	3.9	2.6	2.6	1.9	1.9	1.9	2.6	2.6	3.2	3.9
57.5°	3.2	2.6	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2	3.2
60°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
62.5°	1.9	1.9	2.6	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
65°	1.9	1.9	2.6	2.6	1.9	1.9	1.9	1.9	1.9	2.6	3.2
67.5°	1.9	1.9	2.6	2.6	2.6	2.6	1.9	1.9	1.9	2.6	2.6
70°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6
72.5°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6
75°	1.9	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	2.6
77.5°	1.9	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	2.6
80°	1.9	1.9	1.9	2.6	1.9	2.6	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	1.9	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	1.9	1.9	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
2.5°	119.5	118.2	116.2	115.6	116.2	115.6	112.4	111.8	110.5	110.5	110.5
5°	113.1	111.2	108.6	107.3	107.3	106.0	102.8	102.2	100.2	100.2	99.6
7.5°	105.3	102.8	99.6	98.3	98.3	97.0	93.8	92.5	91.2	91.2	90.6
10°	96.3	93.2	89.9	89.3	88.6	86.7	84.7	84.2	82.3	82.9	82.3
12.5°	86.0	83.6	81.0	79.7	79.7	77.7	76.4	75.8	75.1	75.1	75.1
15°	76.4	73.3	70.7	70.0	70.0	69.4	68.1	68.1	66.8	68.1	68.1
17.5°	65.5	63.0	62.3	61.0	61.7	61.0	59.7	60.4	60.4	61.0	61.7
20°	55.2	53.4	52.7	52.1	52.7	52.7	52.1	52.7	53.4	55.2	56.5
22.5°	46.2	44.9	44.9	44.4	44.9	45.6	44.9	46.2	47.5	48.8	50.8
25°	38.5	37.9	37.9	37.9	38.5	39.2	39.8	41.1	41.8	43.7	44.9
27.5°	31.5	31.5	31.5	32.1	32.8	33.4	34.1	35.9	36.6	38.5	39.8
30°	26.3	25.7	26.3	27.0	27.6	28.9	29.5	30.8	31.5	33.4	34.6
32.5°	21.2	21.9	22.5	23.2	23.8	24.5	25.0	26.3	27.6	28.9	30.2
35°	18.0	18.0	18.6	19.3	19.9	21.2	21.9	22.5	23.8	25.0	25.7
37.5°	14.8	15.4	16.0	16.7	17.3	18.0	18.6	19.3	19.9	21.2	22.5
40°	12.2	12.9	13.5	14.2	14.2	15.4	15.4	16.7	17.3	18.6	19.9
42.5°	10.3	10.9	11.6	12.2	12.2	12.9	13.5	14.2	14.8	16.0	17.3
45°	8.3	9.0	9.6	10.3	10.3	10.9	11.6	12.2	12.9	14.2	14.8
47.5°	7.0	7.7	8.3	9.0	9.0	9.6	10.3	10.9	10.9	12.2	12.9
50°	5.7	6.4	7.0	7.7	7.7	8.3	9.0	9.6	9.6	10.3	10.9
52.5°	4.5	5.1	6.4	6.4	7.0	7.7	7.7	8.3	8.3	9.0	9.6
55°	4.5	5.1	5.7	5.7	6.4	7.0	7.0	7.7	7.7	7.7	8.3
57.5°	3.9	4.5	5.1	5.7	5.7	6.4	6.4	6.4	6.4	7.0	7.0
60°	3.9	4.5	4.5	5.1	5.1	5.7	5.7	5.7	5.7	6.4	6.4
62.5°	3.9	3.9	4.5	4.5	5.1	5.1	5.1	5.7	5.7	5.7	5.7
65°	3.2	3.9	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1
67.5°	3.2	3.9	3.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	3.2	3.2	3.9	3.9	3.9	4.5	4.5	4.5	3.9	4.5	3.9
72.5°	2.6	3.2	3.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.6	3.2	3.2	3.2	3.2	3.9	3.9	3.2	3.2	3.2	3.2
77.5°	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6
80°	2.6	2.6	2.6	2.6	3.2	3.2	2.6	2.6	2.6	2.6	2.6
82.5°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9
85°	1.9	1.9	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.3
87.5°	1.9	1.9	1.9	2.6	1.9	1.9	1.9	1.9	1.3	1.3	1.3
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



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CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H-LSF-20 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	125.9	125.9	125.9	125.9	125.9	125.9	125.9	125.9
2.5°	108.6	107.9	108.6	107.9	107.9	108.6	106.6	107.9
5°	98.3	97.0	97.6	97.0	96.3	97.0	95.7	97.0
7.5°	89.3	88.6	88.6	88.6	88.0	88.6	87.3	88.6
10°	81.6	81.0	81.0	81.0	81.0	81.6	80.3	81.6
12.5°	73.9	73.9	74.5	73.9	74.5	75.1	73.9	75.1
15°	67.4	68.1	68.7	68.7	69.4	70.0	69.4	70.7
17.5°	62.3	63.0	64.3	64.3	64.8	66.1	65.5	66.8
20°	57.1	57.8	59.1	59.1	59.7	61.0	60.4	61.7
22.5°	51.4	52.7	53.4	54.0	54.6	55.9	55.2	56.5
25°	45.6	47.5	48.2	48.8	49.5	50.8	50.8	52.1
27.5°	41.1	42.4	43.1	43.7	44.9	46.2	46.2	46.9
30°	35.9	37.2	38.5	39.2	39.8	41.1	41.1	42.4
32.5°	31.5	32.8	33.4	34.1	35.3	36.6	37.2	37.9
35°	27.0	28.9	29.5	30.8	31.5	33.4	33.4	34.1
37.5°	23.8	25.0	26.3	27.0	28.2	29.5	29.5	30.8
40°	21.2	22.5	23.2	23.8	25.0	26.3	26.3	27.0
42.5°	18.0	19.9	20.6	21.2	21.9	23.2	23.8	24.5
45°	16.0	16.7	17.3	18.0	18.6	19.9	19.9	20.6
47.5°	13.5	14.2	14.8	15.4	16.0	16.7	17.3	18.0
50°	11.6	12.2	12.9	12.9	13.5	14.8	14.8	15.4
52.5°	9.6	10.3	10.9	10.9	11.6	12.9	12.9	13.5
55°	8.3	9.0	9.6	9.6	10.3	10.9	10.9	11.6
57.5°	7.7	7.7	8.3	8.3	9.0	9.0	9.6	9.6
60°	6.4	7.0	7.0	7.0	7.7	7.7	7.7	7.7
62.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.4
65°	5.1	5.1	5.1	5.1	5.1	5.1	4.5	5.1
67.5°	4.5	4.5	4.5	4.5	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.9	3.2	3.2	3.2
72.5°	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6
75°	3.2	3.2	2.6	2.6	2.6	2.6	2.6	1.9
77.5°	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3
82.5°	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6
87.5°	0.6	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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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)