

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: P1219517

Luminaire Tested: **LDSQA4A15950D010TE LAR15SP 4LSQAL1H 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: P1219517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26802)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

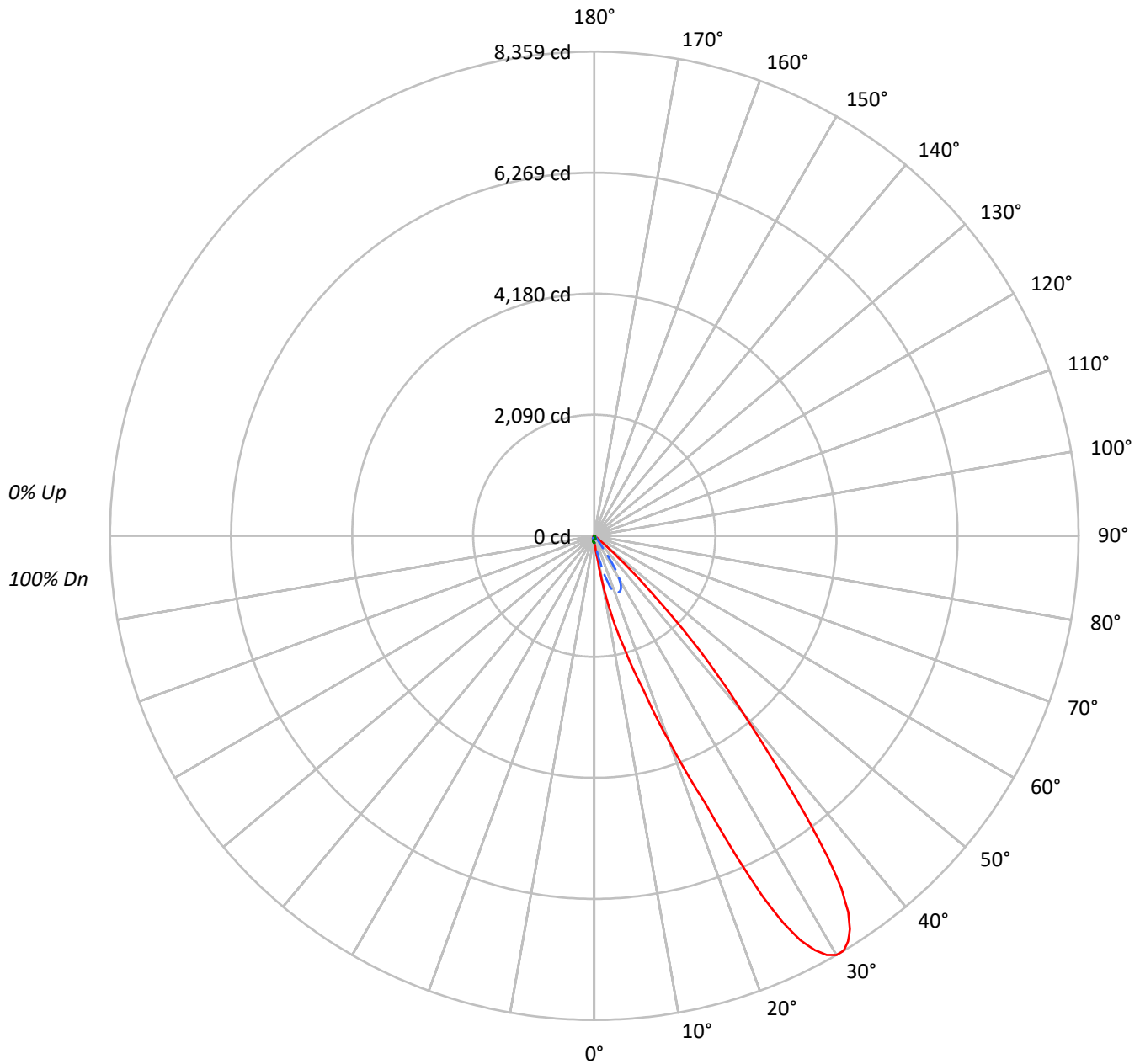
Lumens per Lamp: N/A
Luminaire Lumens: 1312.2 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

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	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	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	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°	12003	12003	12003
5°	19050	11407	9841
10°	83467	10093	8391
15°	203935	8174	7301
20°	389082	6082	6691
25°	733256	4361	5847
30°	934944	3099	5146
35°	879487	1892	4388
40°	504532	1290	3769
45°	194777	904	3192
50°	25892	663	2637
55°	3935	608	2213
60°	1124	562	1841
65°	665	665	1330
70°	425	821	1020
75°	561	823	823
80°	0	1227	837
85°	0	2445	778



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	1.2
10°-20°	140.6	10.7
20°-30°	448.4	34.2
30°-40°	519.7	39.6
40°-50°	169.0	12.9
50°-60°	10.7	0.8
60°-70°	3.9	0.3
70°-80°	2.8	0.2
80°-90°	1.6	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°	604.5	46.1
0°-40°	1124.2	85.7
0°-60°	1303.8	99.4
0°-90°	1312.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	124	124	124	124	124	
5°	196	164	117	103	101	38
15°	2033	733	82	70	73	645
25°	6860	1054	41	43	55	3082
35°	7437	251	16	25	37	4279
45°	1422	31	7	15	23	1269
55°	23	6	4	8	13	36
65°	3	2	3	6	6	3
75°	2	2	2	4	2	1
85°	0	2	2	2	1	0
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9
2.5°	150.7	152.2	152.2	150.0	150.0	147.9	146.4	145.7	145.0	142.7	142.0
5°	195.9	197.4	198.1	192.2	190.1	185.7	182.0	178.5	174.1	169.0	163.9
7.5°	377.9	347.4	352.6	308.8	300.8	281.8	266.6	242.5	225.1	207.6	193.8
10°	848.5	819.3	814.2	750.2	686.7	639.5	588.5	500.3	420.2	335.0	265.8
12.5°	1453.7	1410.8	1386.6	1260.7	1186.4	1116.5	1038.5	900.8	747.2	616.1	479.1
15°	2033.4	2029.8	1943.9	1803.3	1662.0	1576.0	1475.6	1305.1	1123.1	923.4	732.7
17.5°	2733.3	2761.7	2614.6	2340.1	2116.4	1976.6	1838.2	1571.6	1344.4	1150.7	941.7
20°	3774.1	3698.3	3441.3	3011.5	2633.5	2423.1	2208.2	1815.7	1490.1	1255.6	1043.7
22.5°	4996.9	4938.5	4458.0	3741.3	3141.9	2846.3	2550.5	2040.0	1616.1	1312.5	1063.4
25°	6859.9	6620.2	5687.3	4524.2	3608.1	3189.2	2809.8	2185.7	1672.9	1319.7	1053.9
26°	7431.5	7263.4	6187.0	4835.2	3751.5	3283.9	2874.7	2215.5	1677.3	1313.1	1035.6
27°	7837.2	7709.0	6602.9	5063.9	3855.7	3349.5	2916.9	2227.9	1667.1	1299.3	1010.9
28°	8104.5	8001.9	6916.6	5229.2	3918.9	3384.4	2937.3	2225.0	1646.6	1275.2	975.9
29°	8274.2	8175.2	7100.2	5323.1	3941.6	3390.3	2932.1	2203.1	1613.9	1239.6	925.7
30°	8358.0	8250.2	7162.1	5333.3	3916.8	3356.7	2893.6	2155.1	1568.8	1196.6	870.3
31°	8358.7	8239.3	7110.4	5254.7	3843.3	3285.4	2825.2	2074.9	1509.8	1145.7	796.0
32°	8261.9	8138.8	6937.7	5095.2	3728.2	3195.8	2733.3	1993.4	1447.8	1088.8	689.0
33°	8099.4	7953.7	6638.4	4873.9	3581.0	3073.4	2623.3	1902.3	1385.9	997.8	548.4
34°	7837.2	7638.4	6220.4	4605.1	3403.3	2930.6	2497.4	1804.0	1323.3	871.0	391.9
35°	7436.7	7156.3	5736.8	4308.0	3213.3	2776.3	2355.3	1701.3	1246.9	714.5	251.3
36°	6856.9	6495.0	5233.6	4000.6	3017.4	2613.8	2211.1	1602.2	1126.0	541.8	164.6
37°	6100.3	5781.3	4752.1	3691.1	2814.2	2440.6	2079.3	1502.5	977.4	378.7	134.1
38°	5323.1	5087.9	4281.7	3383.6	2603.6	2253.4	1919.1	1398.3	814.9	249.1	112.1
39°	4622.5	4465.1	3821.4	3079.2	2386.6	2089.5	1758.8	1265.8	641.7	177.0	94.7
40°	3989.6	3881.1	3376.4	2769.0	2169.5	1891.3	1608.2	1103.4	462.5	141.2	79.4
42.5°	2721.0	2667.1	2361.9	1992.5	1605.1	1445.7	1266.5	663.5	183.6	89.5	48.0
45°	1421.7	1398.3	1287.6	1166.8	1046.6	1005.1	814.2	297.9	103.4	52.4	30.6
47.5°	553.5	554.9	458.7	391.9	372.2	345.9	262.3	107.1	58.2	32.0	20.4
50°	171.8	185.0	170.4	160.9	123.0	102.6	85.3	53.1	31.3	19.7	13.1
51°	105.7	112.1	105.7	105.7	86.7	75.8	64.9	40.8	24.9	16.0	11.6
52°	68.4	72.1	68.4	64.1	59.7	53.9	46.6	30.6	19.7	13.1	9.5
53°	46.6	48.8	46.6	43.7	40.0	37.1	32.8	22.6	16.0	10.9	8.0
54°	32.8	34.2	32.8	30.6	28.4	26.2	24.0	17.5	13.1	9.5	7.3
55°	23.3	24.9	24.0	22.6	20.4	19.7	18.2	13.8	10.9	8.0	5.8
57.5°	10.9	11.6	11.6	10.9	10.9	10.2	9.5	8.7	6.6	5.2	4.4
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.4	3.6	3.6
61°	4.4	4.4	4.4	4.4	4.4	4.4	5.2	4.4	3.6	3.6	2.9
62°	3.6	3.6	3.6	3.6	3.6	4.4	4.4	3.6	3.6	2.9	2.9
63°	2.9	2.9	2.9	2.9	3.6	3.6	3.6	3.6	2.9	2.9	2.9
64°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.2
65°	2.9	2.9	2.2	2.2	2.2	2.9	2.2	2.9	2.2	2.2	2.2
66°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2
77.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9
2.5°	137.7	134.1	132.5	131.0	130.3	128.9	126.8	124.6	123.9	120.8	118.0
5°	155.2	148.6	143.5	138.4	137.0	133.2	128.9	123.9	121.6	117.3	113.6
7.5°	175.6	162.3	152.9	144.2	140.5	136.2	128.2	121.6	117.3	110.7	106.4
10°	209.8	179.2	160.9	145.7	139.8	134.1	123.9	115.1	109.2	102.6	97.7
12.5°	332.2	232.2	174.8	146.4	138.4	129.6	117.3	107.1	99.7	92.5	88.1
15°	523.6	354.0	226.5	153.7	135.5	122.3	107.8	96.2	88.8	81.5	77.2
17.5°	699.2	476.3	295.7	171.1	137.0	115.9	96.2	84.6	76.5	69.9	67.0
20°	783.6	533.8	329.2	174.8	128.2	103.4	83.0	72.1	64.9	59.0	56.2
22.5°	791.6	530.2	308.8	149.3	106.4	87.5	69.9	59.7	53.9	49.5	46.6
25°	753.8	470.5	247.6	109.9	83.0	72.8	57.5	48.8	44.4	40.8	38.6
26°	724.7	436.3	217.8	95.5	75.8	66.4	52.4	45.2	40.8	37.9	35.8
27°	684.6	396.2	182.7	82.3	69.9	59.7	48.0	41.5	37.9	35.8	33.5
28°	636.5	356.8	151.4	72.8	63.3	53.9	44.4	37.9	35.0	32.8	30.6
29°	584.8	305.1	118.7	65.6	56.8	48.8	40.0	34.2	31.3	29.8	28.4
30°	512.0	237.4	91.0	59.0	51.0	43.7	36.4	31.3	29.1	27.7	26.2
31°	409.2	163.1	73.5	52.4	46.0	39.3	32.8	28.4	26.2	24.9	24.0
32°	293.5	100.5	64.1	46.6	40.8	35.8	28.4	25.6	23.3	22.6	21.8
33°	180.5	82.3	56.8	41.5	35.8	31.3	25.6	22.6	21.1	20.4	19.7
34°	118.7	71.3	50.2	35.8	31.3	26.9	21.8	19.7	18.9	18.2	18.2
35°	100.5	63.3	43.7	30.6	26.2	23.3	18.9	17.5	16.7	16.0	16.7
36°	86.7	55.4	36.4	26.2	22.6	19.7	16.7	15.4	14.6	14.6	15.4
37°	76.5	46.6	30.6	21.8	19.7	17.5	14.6	13.8	13.1	13.1	13.8
38°	64.9	37.9	25.6	18.9	16.7	14.6	13.1	12.4	12.4	12.4	13.1
39°	53.1	32.0	21.8	16.0	14.6	13.1	11.6	10.9	10.9	11.6	11.6
40°	43.7	26.9	18.2	13.8	12.4	11.6	10.2	10.2	10.2	10.2	10.9
42.5°	28.4	18.2	13.1	10.2	9.5	8.7	8.0	8.0	8.0	8.0	8.7
45°	18.9	13.1	10.2	8.0	7.3	6.6	6.6	5.8	6.6	6.6	7.3
47.5°	13.1	9.5	7.3	5.8	5.2	4.4	4.4	4.4	5.2	5.8	5.8
50°	9.5	6.6	5.2	3.6	3.6	3.6	3.6	3.6	4.4	4.4	5.2
51°	8.0	5.8	4.4	3.6	3.6	2.9	2.9	2.9	3.6	4.4	5.2
52°	6.6	5.2	3.6	2.9	2.9	2.9	2.9	2.9	3.6	3.6	4.4
53°	5.8	4.4	3.6	2.9	2.9	2.9	2.9	2.9	3.6	3.6	4.4
54°	5.2	3.6	2.9	2.9	2.9	2.2	2.2	2.9	2.9	3.6	4.4
55°	4.4	3.6	2.9	2.9	2.2	2.2	2.2	2.2	2.9	3.6	3.6
57.5°	3.6	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.9	2.9	3.6
60°	2.9	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.9	2.9	3.6
61°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	3.6
62°	2.9	2.2	2.9	2.9	2.9	2.2	2.2	2.2	2.9	2.9	3.6
63°	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.9	2.9	2.9
64°	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9	3.6
65°	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9	3.6
66°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.9	2.9	2.9



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9
75°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.9
77.5°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.9
80°	2.2	2.2	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9
2.5°	116.6	116.6	115.9	114.4	115.9	114.4	112.8	112.1	111.4	110.7	109.2
5°	110.7	109.9	108.5	107.8	107.8	106.4	104.9	103.4	102.6	101.9	100.5
7.5°	103.4	102.6	100.5	99.7	99.7	98.3	96.2	95.5	94.7	93.9	92.5
10°	94.7	93.9	91.7	91.0	91.0	89.5	88.1	86.7	86.0	85.3	83.7
12.5°	84.6	83.7	82.3	81.5	81.5	80.1	78.6	77.9	77.9	77.2	76.5
15°	74.4	73.5	72.1	72.1	72.1	70.6	69.9	69.2	69.9	69.9	69.2
17.5°	64.1	63.3	61.9	61.9	61.9	61.9	61.2	61.2	61.9	62.6	62.6
20°	53.9	53.1	53.1	52.4	53.1	53.9	53.1	53.9	55.4	56.2	56.8
22.5°	44.4	44.4	44.4	44.4	45.2	46.0	46.0	47.3	48.8	49.5	51.0
25°	37.1	37.1	37.9	37.9	38.6	39.3	40.0	40.8	43.0	44.4	45.2
26°	34.2	35.0	35.0	35.8	36.4	37.1	37.9	38.6	40.8	42.2	43.0
27°	32.0	32.0	32.8	33.5	34.2	35.0	35.8	37.1	38.6	40.0	41.5
28°	29.8	29.8	30.6	31.3	32.0	32.8	33.5	35.0	36.4	38.6	39.3
29°	27.7	28.4	28.4	29.1	29.8	30.6	32.0	32.8	35.0	36.4	37.9
30°	25.6	26.2	26.9	26.9	27.7	28.4	29.8	31.3	32.8	35.0	35.8
31°	24.0	24.9	24.9	25.6	26.2	26.9	28.4	29.8	31.3	32.8	34.2
32°	21.8	23.3	23.3	23.3	24.0	25.6	26.9	27.7	29.8	31.3	32.0
33°	20.4	21.1	21.8	21.8	22.6	24.0	25.6	26.2	28.4	29.8	30.6
34°	18.9	19.7	20.4	20.4	21.1	22.6	24.0	24.9	26.9	27.7	29.1
35°	17.5	18.2	18.9	18.9	19.7	21.1	22.6	23.3	24.9	26.2	27.7
36°	16.0	16.7	17.5	18.2	18.9	20.4	21.1	22.6	23.3	24.9	26.2
37°	14.6	15.4	16.7	16.7	18.2	18.9	20.4	21.1	22.6	23.3	24.9
38°	13.1	14.6	15.4	16.0	16.7	18.2	18.9	19.7	21.1	22.6	23.3
39°	12.4	13.8	14.6	15.4	16.0	16.7	17.5	18.9	19.7	21.1	21.8
40°	11.6	12.4	13.8	13.8	15.4	16.0	16.7	17.5	18.9	19.7	21.1
42.5°	9.5	10.9	11.6	12.4	13.1	13.8	14.6	15.4	16.0	17.5	18.2
45°	8.0	9.5	10.2	10.2	10.9	11.6	12.4	13.1	14.6	15.4	16.0
47.5°	6.6	8.0	8.7	9.5	9.5	10.2	10.9	11.6	12.4	13.1	13.8
50°	5.8	6.6	7.3	8.0	8.7	8.7	9.5	10.2	10.9	11.6	11.6
51°	5.8	6.6	7.3	7.3	8.0	8.7	9.5	9.5	10.2	10.9	10.9
52°	5.2	5.8	6.6	7.3	8.0	8.0	8.7	9.5	9.5	10.2	10.9
53°	5.2	5.8	6.6	6.6	7.3	8.0	8.0	8.7	9.5	9.5	10.2
54°	4.4	5.8	6.6	6.6	7.3	7.3	8.0	8.7	8.7	8.7	9.5
55°	4.4	5.2	5.8	6.6	6.6	7.3	7.3	8.0	8.0	8.7	8.7
57.5°	4.4	5.2	5.8	5.8	6.6	6.6	7.3	7.3	7.3	7.3	8.0
60°	3.6	4.4	5.2	5.8	5.8	6.6	6.6	6.6	6.6	6.6	7.3
61°	3.6	4.4	5.2	5.2	5.8	5.8	6.6	6.6	6.6	6.6	6.6
62°	3.6	4.4	5.2	5.2	5.8	5.8	5.8	6.6	6.6	6.6	6.6
63°	3.6	4.4	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.8	6.6
64°	3.6	4.4	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	3.6	4.4	5.2	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.8
66°	3.6	4.4	5.2	5.2	5.2	5.2	5.8	5.8	5.8	5.8	5.2

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	2.9	3.6	3.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.6
75°	2.9	3.6	3.6	3.6	4.4	4.4	4.4	3.6	3.6	3.6	3.6
77.5°	2.9	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.9	2.9
80°	2.9	2.9	2.9	3.6	3.6	3.6	3.6	2.9	2.9	2.9	2.2
82.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2
85°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	1.5
87.5°	2.2	2.2	2.2	2.9	2.9	2.9	2.2	2.2	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	123.9	123.9	123.9	123.9	123.9	123.9	123.9	123.9
2.5°	110.7	111.4	110.7	110.7	109.2	109.9	108.5	110.7
5°	101.2	101.9	101.2	101.2	99.7	99.7	99.0	101.2
7.5°	93.2	93.9	92.5	92.5	91.0	91.7	91.0	92.5
10°	85.3	85.3	85.3	84.6	83.7	84.6	83.7	85.3
12.5°	77.2	77.9	77.9	77.9	77.2	77.2	76.5	78.6
15°	70.6	71.3	72.1	72.1	71.3	72.1	71.3	72.8
17.5°	64.9	66.4	66.4	67.0	67.0	67.7	67.7	69.2
20°	59.0	61.2	61.2	61.9	61.9	63.3	63.3	64.9
22.5°	53.1	55.4	56.2	56.2	56.8	58.2	58.2	59.7
25°	48.0	50.2	51.0	51.0	51.7	53.1	53.1	54.7
26°	46.0	48.0	48.8	49.5	50.2	51.7	51.7	53.1
27°	43.7	46.0	46.6	47.3	48.0	49.5	49.5	51.0
28°	42.2	44.4	45.2	46.0	46.6	48.0	48.0	48.8
29°	40.0	42.2	43.0	43.7	44.4	46.0	46.0	47.3
30°	38.6	40.0	40.8	41.5	42.2	44.4	44.4	46.0
31°	36.4	38.6	39.3	40.0	40.8	42.2	42.2	44.4
32°	35.0	36.4	37.1	37.9	39.3	40.0	40.8	42.2
33°	32.8	35.0	35.8	36.4	37.1	38.6	39.3	40.8
34°	31.3	32.8	34.2	35.0	35.8	37.1	37.9	39.3
35°	29.8	31.3	32.0	32.8	34.2	35.8	35.8	37.1
36°	28.4	29.8	30.6	31.3	32.8	34.2	34.2	35.8
37°	26.9	28.4	29.1	29.8	31.3	32.8	32.8	34.2
38°	25.6	26.9	27.7	28.4	29.8	31.3	32.0	33.5
39°	24.0	26.2	26.9	27.7	28.4	29.8	30.6	31.3
40°	23.3	24.9	25.6	26.2	26.9	28.4	29.1	29.8
42.5°	19.7	21.8	22.6	23.3	24.0	24.9	25.6	26.2
45°	17.5	18.9	18.9	19.7	20.4	21.8	21.8	23.3
47.5°	15.4	16.0	16.7	16.7	17.5	18.9	18.9	19.7
50°	13.1	13.8	14.6	14.6	15.4	16.0	16.7	17.5
51°	12.4	13.1	13.1	13.8	14.6	15.4	16.0	16.7
52°	11.6	12.4	12.4	13.1	13.8	14.6	14.6	15.4
53°	10.9	11.6	11.6	12.4	12.4	13.8	13.8	14.6
54°	10.2	10.9	10.9	11.6	11.6	13.1	13.1	13.8
55°	9.5	10.2	10.9	10.9	10.9	11.6	12.4	13.1
57.5°	8.7	9.5	9.5	9.5	10.2	10.2	10.9	10.9
60°	7.3	8.0	8.0	8.0	8.7	8.7	8.7	9.5
61°	7.3	7.3	8.0	8.0	7.3	7.3	7.3	8.0
62°	6.6	7.3	7.3	6.6	6.6	6.6	6.6	7.3
63°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
64°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.2	5.8
66°	5.2	5.8	5.8	5.2	5.2	5.2	5.2	5.2

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219517

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9
75°	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.2
77.5°	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	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

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	2.2	2.2	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.9	2.9
70°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	3.6	4.4	4.4	4.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	3.6	3.6	4.4	4.4	4.4	5.2	5.2	4.4	4.4	4.4	4.4

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	5.2	5.2	5.2	5.2	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	3.6	3.6	3.6	3.6

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)