

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: P1219475

Luminaire Tested: **LDSQA4A15930D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219475
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: LDSQA4A15930D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

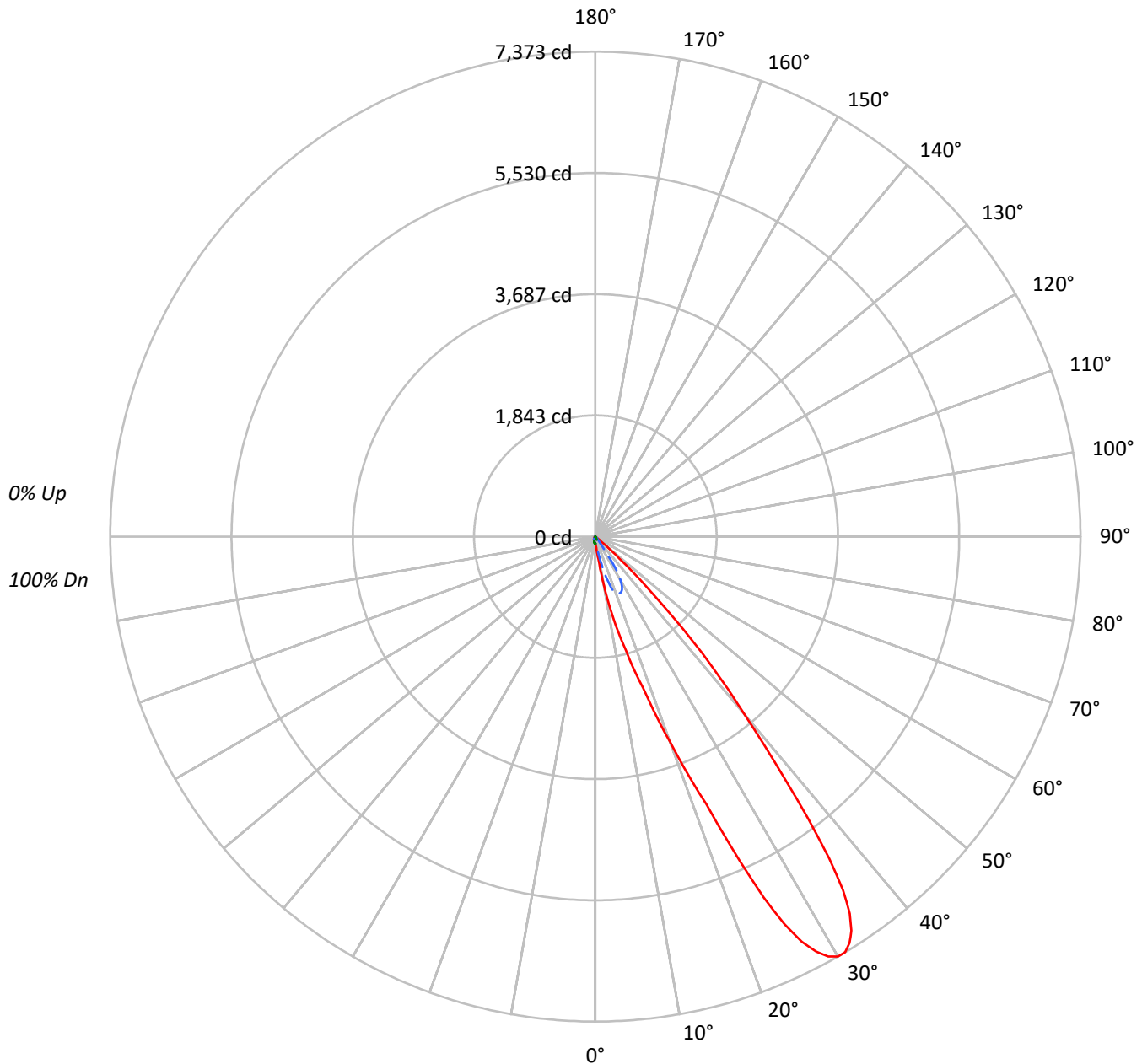
Lumens per Lamp: N/A
Luminaire Lumens: 1157.4 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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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	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	72	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°	10579	10579	10579
5°	16814	10065	8684
10°	73620	8912	7388
15°	179885	7221	6449
20°	343196	5371	5897
25°	646793	3837	5152
30°	824692	2741	4530
35°	775770	1679	3879
40°	445045	1138	3326
45°	171801	781	2822
50°	22848	588	2321
55°	3479	540	1959
60°	988	504	1608
65°	596	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°	13.6	1.2
10°-20°	124.0	10.7
20°-30°	395.6	34.2
30°-40°	458.4	39.6
40°-50°	149.0	12.9
50°-60°	9.4	0.8
60°-70°	3.4	0.3
70°-80°	2.4	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°	533.2	46.1
0°-40°	991.6	85.7
0°-60°	1150.1	99.4
0°-90°	1157.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	109	109	109	109	109	
5°	173	144	104	91	89	34
15°	1794	646	72	62	64	569
25°	6051	930	36	38	48	2719
35°	6560	222	14	22	33	3774
45°	1254	27	6	13	21	1120
55°	21	5	3	7	12	32
65°	3	2	3	5	5	2
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°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2
2.5°	133.0	134.2	134.2	132.4	132.4	130.4	129.1	128.5	127.8	125.9	125.2
5°	172.9	174.1	174.7	169.6	167.7	163.8	160.6	157.4	153.5	149.0	144.5
7.5°	333.4	306.4	311.0	272.3	265.3	248.6	235.1	213.9	198.5	183.1	170.9
10°	748.4	722.7	718.2	661.7	605.8	564.0	519.1	441.3	370.7	295.5	234.5
12.5°	1282.2	1244.3	1223.1	1112.1	1046.5	984.9	916.0	794.7	659.1	543.5	422.7
15°	1793.6	1790.4	1714.6	1590.6	1466.0	1390.2	1301.6	1151.2	990.6	814.6	646.3
17.5°	2410.9	2436.1	2306.3	2064.1	1866.8	1743.5	1621.4	1386.3	1185.9	1015.0	830.6
20°	3329.0	3262.1	3035.4	2656.4	2322.9	2137.3	1947.8	1601.5	1314.4	1107.5	920.6
22.5°	4407.7	4356.2	3932.3	3300.1	2771.4	2510.5	2249.8	1799.4	1425.5	1157.6	937.9
25°	6051.0	5839.6	5016.6	3990.7	3182.6	2813.2	2478.5	1927.9	1475.6	1164.0	929.6
26°	6555.2	6406.8	5457.4	4265.0	3309.1	2896.6	2535.6	1954.3	1479.5	1158.3	913.5
27°	6913.1	6800.0	5824.2	4466.8	3400.9	2954.5	2572.9	1965.2	1470.4	1146.1	891.7
28°	7148.8	7058.2	6101.1	4612.6	3456.9	2985.3	2590.8	1962.6	1452.5	1124.8	860.8
29°	7298.5	7211.2	6262.9	4695.5	3476.8	2990.5	2586.4	1943.3	1423.6	1093.4	816.6
30°	7372.4	7277.3	6317.6	4704.4	3454.9	2960.9	2552.3	1900.9	1383.7	1055.5	767.6
31°	7373.0	7267.7	6271.9	4635.1	3390.1	2897.9	2491.9	1830.2	1331.7	1010.5	702.2
32°	7287.6	7179.0	6119.7	4494.4	3288.6	2818.9	2410.9	1758.3	1277.1	960.4	607.8
33°	7144.3	7015.8	5855.7	4299.1	3158.8	2711.0	2314.0	1678.0	1222.6	880.1	483.7
34°	6913.1	6737.6	5486.9	4062.0	3002.0	2585.1	2202.8	1591.2	1167.3	768.3	345.6
35°	6559.7	6312.4	5060.3	3799.9	2834.4	2448.9	2077.6	1500.6	1099.8	630.2	221.7
36°	6048.4	5729.1	4616.4	3528.8	2661.5	2305.6	1950.4	1413.3	993.2	478.0	145.2
37°	5380.8	5099.5	4191.8	3255.8	2482.3	2152.8	1834.1	1325.3	862.1	334.0	118.2
38°	4695.5	4488.0	3776.8	2984.7	2296.6	1987.6	1692.8	1233.4	718.8	219.7	98.9
39°	4077.4	3938.6	3370.8	2716.2	2105.2	1843.1	1551.4	1116.5	566.0	156.1	83.6
40°	3519.2	3423.4	2978.2	2442.4	1913.8	1668.3	1418.5	973.3	408.0	124.6	70.0
42.5°	2400.1	2352.5	2083.4	1757.6	1415.9	1275.2	1117.1	585.3	161.9	79.0	42.4
45°	1254.0	1233.4	1135.8	1029.1	923.2	886.5	718.2	262.7	91.2	46.2	27.0
47.5°	488.3	489.6	404.7	345.6	328.3	305.1	231.3	94.4	51.4	28.3	18.0
50°	151.6	163.2	150.3	142.0	108.6	90.6	75.1	46.9	27.6	17.3	11.6
51°	93.2	98.9	93.2	93.2	76.4	66.8	57.2	35.9	21.9	14.2	10.3
52°	60.4	63.6	60.4	56.5	52.7	47.5	41.1	27.0	17.3	11.6	8.3
53°	41.1	43.1	41.1	38.5	35.3	32.8	28.9	19.9	14.2	9.6	7.0
54°	28.9	30.2	28.9	27.0	25.0	23.2	21.2	15.4	11.6	8.3	6.4
55°	20.6	21.9	21.2	19.9	18.0	17.3	16.0	12.2	9.6	7.0	5.1
57.5°	9.6	10.3	10.3	9.6	9.6	9.0	8.3	7.7	5.7	4.5	3.9
60°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.9	3.2	3.2
61°	3.9	3.9	3.9	3.9	3.9	3.9	4.5	3.9	3.2	3.2	2.6
62°	3.2	3.2	3.2	3.2	3.2	3.9	3.9	3.2	3.2	2.6	2.6
63°	2.6	2.6	2.6	2.6	3.2	3.2	3.2	3.2	2.6	2.6	2.6
64°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9
65°	2.6	2.6	1.9	1.9	1.9	2.6	1.9	2.6	1.9	1.9	1.9
66°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
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	0.6	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	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°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2
2.5°	121.4	118.2	116.9	115.6	115.0	113.8	111.8	109.9	109.2	106.6	104.0
5°	136.8	131.1	126.5	122.1	120.8	117.5	113.8	109.2	107.3	103.5	100.2
7.5°	154.8	143.3	134.9	127.2	123.9	120.1	113.1	107.3	103.5	97.6	93.8
10°	185.0	158.0	142.0	128.5	123.4	118.2	109.2	101.5	96.3	90.6	86.1
12.5°	292.9	204.9	154.1	129.1	122.1	114.3	103.5	94.4	88.0	81.6	77.7
15°	461.9	312.2	199.8	135.5	119.5	107.9	95.0	84.8	78.4	72.0	68.1
17.5°	616.8	420.2	260.9	151.0	120.8	102.2	84.8	74.5	67.4	61.7	59.1
20°	691.2	470.8	290.4	154.1	113.1	91.2	73.3	63.6	57.2	52.1	49.5
22.5°	698.3	467.7	272.3	131.7	93.8	77.1	61.7	52.7	47.5	43.7	41.1
25°	664.9	415.0	218.4	97.0	73.3	64.3	50.8	43.1	39.2	35.9	34.1
26°	639.2	384.8	192.1	84.2	66.8	58.5	46.2	39.8	35.9	33.4	31.5
27°	603.9	349.5	161.3	72.6	61.7	52.7	42.4	36.6	33.4	31.5	29.5
28°	561.4	314.8	133.6	64.3	55.9	47.5	39.2	33.4	30.8	28.9	27.0
29°	515.9	269.2	104.7	57.8	50.1	43.1	35.3	30.2	27.6	26.3	25.0
30°	451.6	209.4	80.3	52.1	44.9	38.5	32.1	27.6	25.7	24.5	23.2
31°	361.1	143.9	64.8	46.2	40.5	34.6	28.9	25.0	23.2	21.9	21.2
32°	258.9	88.6	56.5	41.1	35.9	31.5	25.0	22.5	20.6	19.9	19.3
33°	159.3	72.6	50.1	36.6	31.5	27.6	22.5	19.9	18.6	18.0	17.3
34°	104.7	63.0	44.4	31.5	27.6	23.8	19.3	17.3	16.7	16.0	16.0
35°	88.6	55.9	38.5	27.0	23.2	20.6	16.7	15.4	14.8	14.2	14.8
36°	76.4	48.8	32.1	23.2	19.9	17.3	14.8	13.5	12.9	12.9	13.5
37°	67.4	41.1	27.0	19.3	17.3	15.4	12.9	12.2	11.6	11.6	12.2
38°	57.2	33.4	22.5	16.7	14.8	12.9	11.6	10.9	10.9	10.9	11.6
39°	46.9	28.3	19.3	14.2	12.9	11.6	10.3	9.6	9.6	10.3	10.3
40°	38.5	23.8	16.0	12.2	10.9	10.3	9.0	9.0	9.0	9.0	9.6
42.5°	25.0	16.0	11.6	9.0	8.3	7.7	7.0	7.0	7.0	7.0	7.7
45°	16.7	11.6	9.0	7.0	6.4	5.7	5.7	5.1	5.7	5.7	6.4
47.5°	11.6	8.3	6.4	5.1	4.5	3.9	3.9	3.9	4.5	5.1	5.1
50°	8.3	5.7	4.5	3.2	3.2	3.2	3.2	3.2	3.9	3.9	4.5
51°	7.0	5.1	3.9	3.2	3.2	2.6	2.6	2.6	3.2	3.9	4.5
52°	5.7	4.5	3.2	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.9
53°	5.1	3.9	3.2	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.9
54°	4.5	3.2	2.6	2.6	2.6	1.9	1.9	2.6	2.6	3.2	3.9
55°	3.9	3.2	2.6	2.6	1.9	1.9	1.9	1.9	2.6	3.2	3.2
57.5°	3.2	2.6	2.6	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
60°	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
61°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
62°	2.6	1.9	2.6	2.6	2.6	1.9	1.9	1.9	2.6	2.6	3.2
63°	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	2.6	2.6	2.6
64°	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6	3.2
65°	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6	3.2
66°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	2.6	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	1.9	1.9	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	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	2.6	2.6	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	1.9	1.9	2.6	2.6	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

TEST NUMBER: P1219475

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2
2.5°	102.8	102.8	102.2	100.9	102.2	100.9	99.6	98.9	98.3	97.6	96.3
5°	97.6	97.0	95.7	95.0	95.0	93.8	92.5	91.2	90.6	89.9	88.6
7.5°	91.2	90.6	88.6	88.0	88.0	86.7	84.8	84.2	83.6	82.9	81.6
10°	83.6	82.9	81.0	80.3	80.3	79.0	77.7	76.4	75.8	75.1	73.9
12.5°	74.5	73.9	72.6	72.0	72.0	70.7	69.4	68.7	68.7	68.1	67.4
15°	65.5	64.8	63.6	63.6	63.6	62.3	61.7	61.0	61.7	61.7	61.0
17.5°	56.5	55.9	54.6	54.6	54.6	54.6	54.0	54.0	54.6	55.2	55.2
20°	47.5	46.9	46.9	46.2	46.9	47.5	46.9	47.5	48.8	49.5	50.1
22.5°	39.2	39.2	39.2	39.2	39.8	40.5	40.5	41.8	43.1	43.7	44.9
25°	32.8	32.8	33.4	33.4	34.1	34.6	35.3	35.9	37.9	39.2	39.8
26°	30.2	30.8	30.8	31.5	32.1	32.8	33.4	34.1	35.9	37.2	37.9
27°	28.3	28.3	28.9	29.5	30.2	30.8	31.5	32.8	34.1	35.3	36.6
28°	26.3	26.3	27.0	27.6	28.3	28.9	29.5	30.8	32.1	34.1	34.6
29°	24.5	25.0	25.0	25.7	26.3	27.0	28.3	28.9	30.8	32.1	33.4
30°	22.5	23.2	23.8	23.8	24.5	25.0	26.3	27.6	28.9	30.8	31.5
31°	21.2	21.9	21.9	22.5	23.2	23.8	25.0	26.3	27.6	28.9	30.2
32°	19.3	20.6	20.6	20.6	21.2	22.5	23.8	24.5	26.3	27.6	28.3
33°	18.0	18.6	19.3	19.3	19.9	21.2	22.5	23.2	25.0	26.3	27.0
34°	16.7	17.3	18.0	18.0	18.6	19.9	21.2	21.9	23.8	24.5	25.7
35°	15.4	16.0	16.7	16.7	17.3	18.6	19.9	20.6	21.9	23.2	24.5
36°	14.2	14.8	15.4	16.0	16.7	18.0	18.6	19.9	20.6	21.9	23.2
37°	12.9	13.5	14.8	14.8	16.0	16.7	18.0	18.6	19.9	20.6	21.9
38°	11.6	12.9	13.5	14.2	14.8	16.0	16.7	17.3	18.6	19.9	20.6
39°	10.9	12.2	12.9	13.5	14.2	14.8	15.4	16.7	17.3	18.6	19.3
40°	10.3	10.9	12.2	12.2	13.5	14.2	14.8	15.4	16.7	17.3	18.6
42.5°	8.3	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	15.4	16.0
45°	7.0	8.3	9.0	9.0	9.6	10.3	10.9	11.6	12.9	13.5	14.2
47.5°	5.7	7.0	7.7	8.3	8.3	9.0	9.6	10.3	10.9	11.6	12.2
50°	5.1	5.7	6.4	7.0	7.7	7.7	8.3	9.0	9.6	10.3	10.3
51°	5.1	5.7	6.4	6.4	7.0	7.7	8.3	8.3	9.0	9.6	9.6
52°	4.5	5.1	5.7	6.4	7.0	7.0	7.7	8.3	8.3	9.0	9.6
53°	4.5	5.1	5.7	5.7	6.4	7.0	7.0	7.7	8.3	8.3	9.0
54°	3.9	5.1	5.7	5.7	6.4	6.4	7.0	7.7	7.7	7.7	8.3
55°	3.9	4.5	5.1	5.7	5.7	6.4	6.4	7.0	7.0	7.7	7.7
57.5°	3.9	4.5	5.1	5.1	5.7	5.7	6.4	6.4	6.4	6.4	7.0
60°	3.2	3.9	4.5	5.1	5.1	5.7	5.7	5.7	5.7	5.7	6.4
61°	3.2	3.9	4.5	4.5	5.1	5.1	5.7	5.7	5.7	5.7	5.7
62°	3.2	3.9	4.5	4.5	5.1	5.1	5.1	5.7	5.7	5.7	5.7
63°	3.2	3.9	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1	5.7
64°	3.2	3.9	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	3.2	3.9	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1
66°	3.2	3.9	4.5	4.5	4.5	4.5	5.1	5.1	5.1	5.1	4.5



TEST NUMBER: P1219475

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	2.6	3.2	3.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.2
75°	2.6	3.2	3.2	3.2	3.9	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	2.6	2.6
80°	2.6	2.6	2.6	3.2	3.2	3.2	3.2	2.6	2.6	2.6	1.9
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	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.3
87.5°	1.9	1.9	1.9	2.6	2.6	2.6	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

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219475

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2
2.5°	97.6	98.3	97.6	97.6	96.3	97.0	95.7	97.6
5°	89.3	89.9	89.3	89.3	88.0	88.0	87.4	89.3
7.5°	82.3	82.9	81.6	81.6	80.3	81.0	80.3	81.6
10°	75.1	75.1	75.1	74.5	73.9	74.5	73.9	75.1
12.5°	68.1	68.7	68.7	68.7	68.1	68.1	67.4	69.4
15°	62.3	63.0	63.6	63.6	63.0	63.6	63.0	64.3
17.5°	57.2	58.5	58.5	59.1	59.1	59.7	59.7	61.0
20°	52.1	54.0	54.0	54.6	54.6	55.9	55.9	57.2
22.5°	46.9	48.8	49.5	49.5	50.1	51.4	51.4	52.7
25°	42.4	44.4	44.9	44.9	45.6	46.9	46.9	48.2
26°	40.5	42.4	43.1	43.7	44.4	45.6	45.6	46.9
27°	38.5	40.5	41.1	41.8	42.4	43.7	43.7	44.9
28°	37.2	39.2	39.8	40.5	41.1	42.4	42.4	43.1
29°	35.3	37.2	37.9	38.5	39.2	40.5	40.5	41.8
30°	34.1	35.3	35.9	36.6	37.2	39.2	39.2	40.5
31°	32.1	34.1	34.6	35.3	35.9	37.2	37.2	39.2
32°	30.8	32.1	32.8	33.4	34.6	35.3	35.9	37.2
33°	28.9	30.8	31.5	32.1	32.8	34.1	34.6	35.9
34°	27.6	28.9	30.2	30.8	31.5	32.8	33.4	34.6
35°	26.3	27.6	28.3	28.9	30.2	31.5	31.5	32.8
36°	25.0	26.3	27.0	27.6	28.9	30.2	30.2	31.5
37°	23.8	25.0	25.7	26.3	27.6	28.9	28.9	30.2
38°	22.5	23.8	24.5	25.0	26.3	27.6	28.3	29.5
39°	21.2	23.2	23.8	24.5	25.0	26.3	27.0	27.6
40°	20.6	21.9	22.5	23.2	23.8	25.0	25.7	26.3
42.5°	17.3	19.3	19.9	20.6	21.2	21.9	22.5	23.2
45°	15.4	16.7	16.7	17.3	18.0	19.3	19.3	20.6
47.5°	13.5	14.2	14.8	14.8	15.4	16.7	16.7	17.3
50°	11.6	12.2	12.9	12.9	13.5	14.2	14.8	15.4
51°	10.9	11.6	11.6	12.2	12.9	13.5	14.2	14.8
52°	10.3	10.9	10.9	11.6	12.2	12.9	12.9	13.5
53°	9.6	10.3	10.3	10.9	10.9	12.2	12.2	12.9
54°	9.0	9.6	9.6	10.3	10.3	11.6	11.6	12.2
55°	8.3	9.0	9.6	9.6	9.6	10.3	10.9	11.6
57.5°	7.7	8.3	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	8.3
61°	6.4	6.4	7.0	7.0	6.4	6.4	6.4	7.0
62°	5.7	6.4	6.4	5.7	5.7	5.7	5.7	6.4
63°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
64°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	5.1	5.1	5.1	5.1	5.1	5.1	4.5	5.1
66°	4.5	5.1	5.1	4.5	4.5	4.5	4.5	4.5



TEST NUMBER: P1219475

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6
75°	3.2	2.6	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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Scaled Data Report





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	1.9	1.9

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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

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67.5°	3.2	3.9	3.9	3.9	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	3.9	3.9	3.9	3.9

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Scaled Data Report



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	3.2	3.2	3.2	3.2

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)