

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: P1219531

Luminaire Tested: **LDSQA4A20950D010TE 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: P1219531
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: LDSQA4A20950D010TE 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

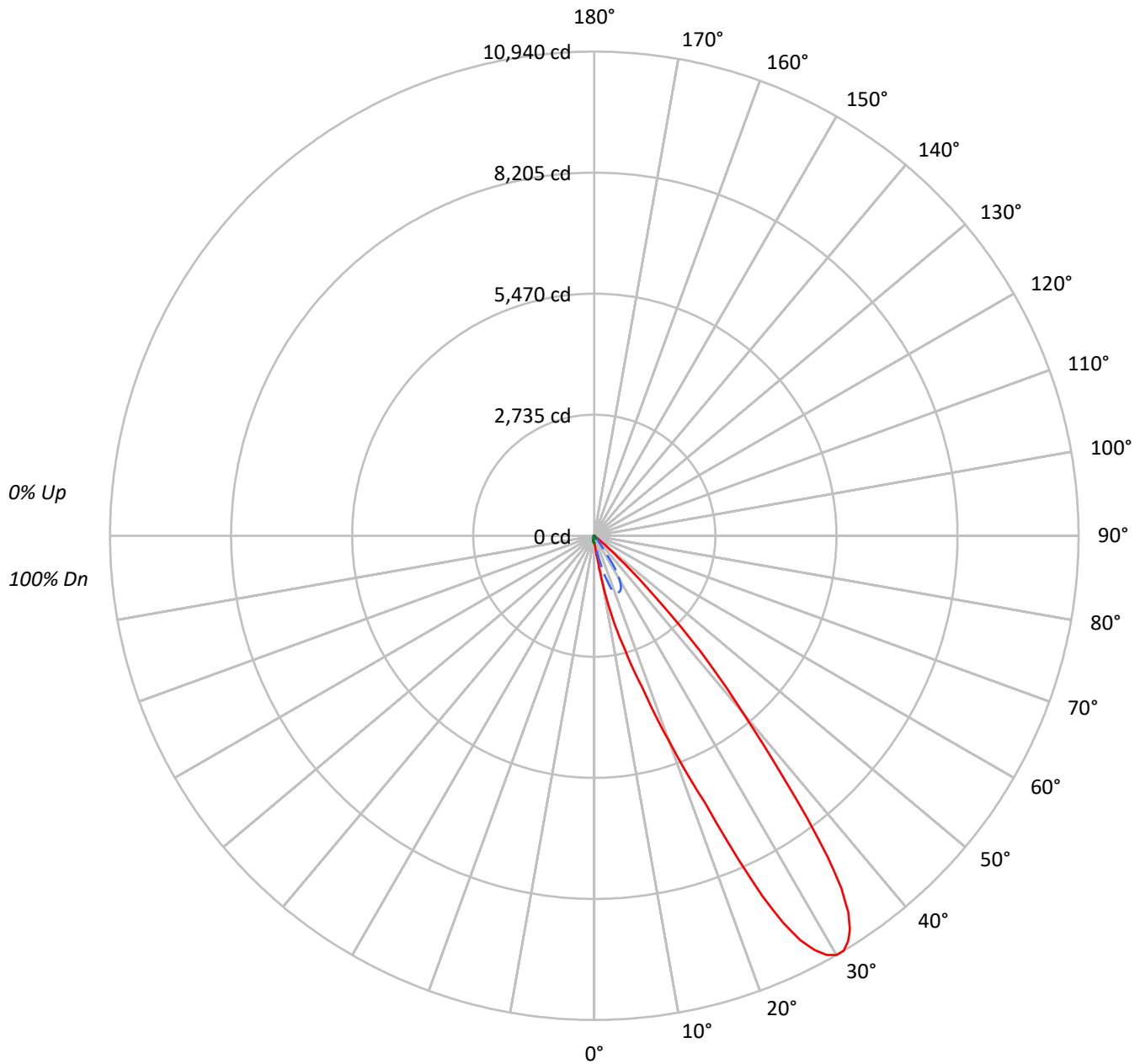
Lumens per Lamp: N/A
Luminaire Lumens: 1717.3 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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				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	105	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	85	80	87	83	79		85	81	78		82
4	93	84	77	72	91	82	76	72	80	75	71		78	73	70		76
5	86	76	69	64	85	75	69	64	74	68	63		72	67	63		70
6	81	70	63	58	79	69	62	58	68	62	57		66	61	57		65
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60
8	70	59	52	47	69	58	52	47	57	51	47		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°	15694	15694	15694
5°	24943	14927	12885
10°	109240	13231	10968
15°	266909	10701	9558
20°	509216	7959	8742
25°	959650	5719	7632
30°	1223615	4061	6723
35°	1151043	2484	5748
40°	660321	1682	4932
45°	254907	1165	4192
50°	33910	859	3466
55°	5168	811	2922
60°	1492	736	2422
65°	871	871	1765
70°	538	1076	1360
75°	711	1048	1048
80°	0	1562	1060
85°	0	3112	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	1.2
10°-20°	184.0	10.7
20°-30°	586.9	34.2
30°-40°	680.1	39.6
40°-50°	221.2	12.9
50°-60°	14.0	0.8
60°-70°	5.1	0.3
70°-80°	3.6	0.2
80°-90°	2.1	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°	791.2	46.1
0°-40°	1471.3	85.7
0°-60°	1706.4	99.4
0°-90°	1717.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1717.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	162	162	162	162	162	
5°	256	214	154	134	132	50
15°	2661	959	107	92	95	844
25°	8978	1379	54	56	71	4034
35°	9733	329	21	32	49	5600
45°	1861	40	8	19	31	1661
55°	31	8	5	10	17	47
65°	4	3	4	8	8	3
75°	2	3	3	5	3	1
85°	0	2	3	3	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°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0
2.5°	197.3	199.3	199.3	196.4	196.4	193.5	191.6	190.7	189.7	186.8	185.7
5°	256.5	258.2	259.3	251.7	248.8	243.0	238.3	233.6	227.8	221.1	214.4
7.5°	494.7	454.7	461.2	404.1	393.7	368.8	348.8	317.5	294.5	271.8	253.6
10°	1110.5	1072.2	1065.7	981.8	898.8	836.8	770.2	654.8	550.1	438.5	348.0
12.5°	1902.6	1846.3	1814.8	1650.1	1552.7	1461.2	1359.3	1179.0	978.0	806.4	627.2
15°	2661.3	2656.5	2544.0	2360.1	2175.1	2062.7	1931.1	1708.1	1469.8	1208.6	958.8
17.5°	3577.3	3614.4	3421.8	3062.6	2769.9	2586.9	2405.8	2056.9	1759.5	1506.0	1232.5
20°	4939.4	4840.3	4503.8	3941.4	3446.7	3171.3	2890.1	2376.3	1950.2	1643.3	1365.8
22.5°	6539.7	6463.4	5834.4	4896.4	4112.0	3725.1	3338.1	2669.8	2115.2	1717.6	1391.6
25°	8977.9	8664.3	7443.3	5921.1	4722.0	4173.9	3677.3	2860.5	2189.5	1727.0	1379.2
26°	9726.2	9505.9	8097.2	6328.1	4909.8	4297.9	3762.1	2899.5	2195.1	1718.6	1355.5
27°	10257.1	10089.5	8641.5	6627.4	5046.1	4383.6	3817.5	2915.7	2181.8	1700.5	1323.1
28°	10607.0	10472.5	9052.3	6843.8	5129.1	4429.4	3844.0	2912.0	2155.1	1669.0	1277.3
29°	10829.0	10699.4	9292.4	6966.6	5158.6	4437.1	3837.5	2883.3	2112.2	1622.3	1211.5
30°	10938.6	10797.5	9373.5	6980.2	5126.2	4393.2	3787.1	2820.5	2053.2	1566.0	1139.0
31°	10939.6	10783.2	9305.8	6877.1	5029.9	4299.8	3697.3	2715.5	1976.0	1499.4	1041.9
32°	10812.8	10651.7	9079.9	6668.4	4879.4	4182.6	3577.3	2608.8	1894.9	1425.0	901.7
33°	10600.2	10409.7	8688.2	6378.6	4686.9	4022.4	3433.4	2489.8	1813.9	1305.8	717.8
34°	10257.1	9996.9	8141.1	6026.9	4454.1	3835.6	3268.3	2361.0	1732.0	1140.0	512.7
35°	9732.9	9365.9	7508.2	5638.0	4205.3	3633.6	3082.6	2226.6	1631.8	935.1	328.8
36°	8974.2	8500.3	6849.5	5235.8	3949.0	3421.0	2893.9	2097.0	1473.6	709.2	215.5
37°	7983.9	7566.4	6219.4	4830.7	3683.1	3194.0	2721.3	1966.3	1279.2	495.7	175.4
38°	6966.6	6658.8	5603.7	4428.4	3407.6	2949.1	2511.6	1830.1	1066.5	325.9	146.7
39°	6049.8	5843.9	5001.4	4030.0	3123.5	2734.6	2301.9	1656.6	839.7	231.5	124.0
40°	5221.5	5079.5	4419.0	3624.0	2839.5	2475.4	2104.5	1444.0	605.3	184.9	103.9
42.5°	3561.1	3490.6	3091.1	2607.8	2100.8	1892.1	1657.6	868.3	240.2	117.2	63.0
45°	1860.6	1830.1	1685.2	1526.9	1369.7	1315.3	1065.7	389.8	135.3	68.7	40.0
47.5°	724.5	726.3	600.5	512.7	487.0	452.8	343.2	140.1	76.2	41.9	26.7
50°	225.0	242.0	223.1	210.7	161.1	134.5	111.5	69.6	41.0	25.7	17.3
51°	138.2	146.7	138.2	138.2	113.5	99.2	84.8	53.5	32.4	21.0	15.2
52°	89.5	94.3	89.5	83.9	78.2	70.5	60.9	40.0	25.7	17.3	12.5
53°	60.9	63.9	60.9	57.2	52.4	48.6	43.0	29.5	21.0	14.4	10.5
54°	43.0	44.7	43.0	40.0	37.2	34.3	31.4	23.0	17.3	12.5	9.5
55°	30.6	32.4	31.4	29.5	26.7	25.7	23.8	18.1	14.4	10.5	7.7
57.5°	14.4	15.2	15.2	14.4	14.4	13.3	12.5	11.4	8.5	6.8	5.7
60°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	5.7	4.8	4.8
61°	5.7	5.7	5.7	5.7	5.7	5.7	6.8	5.7	4.8	4.8	3.8
62°	4.8	4.8	4.8	4.8	4.8	5.7	5.7	4.8	4.8	3.8	3.8
63°	3.8	3.8	3.8	3.8	4.8	4.8	4.8	4.8	3.8	3.8	3.8
64°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8
65°	3.8	3.8	2.8	2.8	2.8	3.8	2.8	3.8	2.8	2.8	2.8
66°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
77.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.8
80°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
85°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0
2.5°	180.2	175.4	173.5	171.6	170.6	168.7	165.8	163.0	162.0	158.3	154.4
5°	203.0	194.5	187.8	181.1	179.2	174.5	168.7	162.0	159.2	153.5	148.7
7.5°	229.7	212.5	200.2	188.7	184.0	178.3	167.8	159.2	153.5	145.0	139.2
10°	274.5	234.4	210.7	190.7	183.0	175.4	162.0	150.6	143.0	134.5	127.7
12.5°	434.7	304.0	228.8	191.6	181.1	169.7	153.5	140.1	130.5	121.1	115.3
15°	685.4	463.2	296.4	201.1	177.3	160.2	141.0	125.8	116.3	106.7	101.0
17.5°	915.0	623.4	387.0	224.0	179.2	151.5	125.8	110.6	100.0	91.5	87.7
20°	1025.6	698.7	430.8	228.8	167.8	135.3	108.7	94.3	84.8	77.2	73.4
22.5°	1036.0	694.0	404.1	195.4	139.2	114.4	91.5	78.2	70.5	64.8	60.9
25°	986.5	615.8	324.1	143.9	108.7	95.3	75.3	63.9	58.1	53.5	50.5
26°	948.5	571.0	285.1	124.8	99.2	86.7	68.7	59.1	53.5	49.5	46.8
27°	896.0	518.5	239.3	107.7	91.5	78.2	63.0	54.3	49.5	46.8	43.8
28°	833.0	467.0	198.2	95.3	83.0	70.5	58.1	49.5	45.8	43.0	40.0
29°	765.4	399.4	155.4	85.8	74.3	63.9	52.4	44.7	41.0	39.0	37.2
30°	670.1	310.8	119.2	77.2	66.8	57.2	47.6	41.0	38.2	36.3	34.3
31°	535.7	213.5	96.3	68.7	60.1	51.5	43.0	37.2	34.3	32.4	31.4
32°	384.1	131.6	83.9	60.9	53.5	46.8	37.2	33.3	30.6	29.5	28.5
33°	236.5	107.7	74.3	54.3	46.8	41.0	33.3	29.5	27.7	26.7	25.7
34°	155.4	93.4	65.7	46.8	41.0	35.3	28.5	25.7	24.8	23.8	23.8
35°	131.6	83.0	57.2	40.0	34.3	30.6	24.8	23.0	21.9	21.0	21.9
36°	113.5	72.5	47.6	34.3	29.5	25.7	21.9	20.0	19.0	19.0	20.0
37°	100.0	60.9	40.0	28.5	25.7	23.0	19.0	18.1	17.3	17.3	18.1
38°	84.8	49.5	33.3	24.8	21.9	19.0	17.3	16.2	16.2	16.2	17.3
39°	69.6	41.9	28.5	21.0	19.0	17.3	15.2	14.4	14.4	15.2	15.2
40°	57.2	35.3	23.8	18.1	16.2	15.2	13.3	13.3	13.3	13.3	14.4
42.5°	37.2	23.8	17.3	13.3	12.5	11.4	10.5	10.5	10.5	10.5	11.4
45°	24.8	17.3	13.3	10.5	9.5	8.5	8.5	7.7	8.5	8.5	9.5
47.5°	17.3	12.5	9.5	7.7	6.8	5.7	5.7	5.7	6.8	7.7	7.7
50°	12.5	8.5	6.8	4.8	4.8	4.8	4.8	4.8	5.7	5.7	6.8
51°	10.5	7.7	5.7	4.8	4.8	3.8	3.8	3.8	4.8	5.7	6.8
52°	8.5	6.8	4.8	3.8	3.8	3.8	3.8	3.8	4.8	4.8	5.7
53°	7.7	5.7	4.8	3.8	3.8	3.8	3.8	3.8	4.8	4.8	5.7
54°	6.8	4.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8	4.8	5.7
55°	5.7	4.8	3.8	3.8	2.8	2.8	2.8	2.8	3.8	4.8	4.8
57.5°	4.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
60°	3.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
61°	3.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
62°	3.8	2.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8	3.8	4.8
63°	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8	3.8	3.8
64°	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8	4.8
65°	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8	4.8
66°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	3.8	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8
75°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8
77.5°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8
80°	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0
2.5°	152.5	152.5	151.5	149.7	151.5	149.7	147.8	146.7	145.8	145.0	143.0
5°	145.0	143.9	142.1	141.0	141.0	139.2	137.3	135.3	134.5	133.4	131.6
7.5°	135.3	134.5	131.6	130.5	130.5	128.8	125.8	124.8	124.0	122.9	121.1
10°	124.0	122.9	120.0	119.2	119.2	117.2	115.3	113.5	112.5	111.5	109.6
12.5°	110.6	109.6	107.7	106.7	106.7	104.8	103.0	102.0	102.0	101.0	100.0
15°	97.2	96.3	94.3	94.3	94.3	92.6	91.5	90.5	91.5	91.5	90.5
17.5°	83.9	83.0	81.0	81.0	81.0	81.0	80.1	80.1	81.0	82.0	82.0
20°	70.5	69.6	69.6	68.7	69.6	70.5	69.6	70.5	72.5	73.4	74.3
22.5°	58.1	58.1	58.1	58.1	59.1	60.1	60.1	62.0	63.9	64.8	66.8
25°	48.6	48.6	49.5	49.5	50.5	51.5	52.4	53.5	56.3	58.1	59.1
26°	44.7	45.8	45.8	46.8	47.6	48.6	49.5	50.5	53.5	55.2	56.3
27°	41.9	41.9	43.0	43.8	44.7	45.8	46.8	48.6	50.5	52.4	54.3
28°	39.0	39.0	40.0	41.0	41.9	43.0	43.8	45.8	47.6	50.5	51.5
29°	36.3	37.2	37.2	38.2	39.0	40.0	41.9	43.0	45.8	47.6	49.5
30°	33.3	34.3	35.3	35.3	36.3	37.2	39.0	41.0	43.0	45.8	46.8
31°	31.4	32.4	32.4	33.3	34.3	35.3	37.2	39.0	41.0	43.0	44.7
32°	28.5	30.6	30.6	30.6	31.4	33.3	35.3	36.3	39.0	41.0	41.9
33°	26.7	27.7	28.5	28.5	29.5	31.4	33.3	34.3	37.2	39.0	40.0
34°	24.8	25.7	26.7	26.7	27.7	29.5	31.4	32.4	35.3	36.3	38.2
35°	23.0	23.8	24.8	24.8	25.7	27.7	29.5	30.6	32.4	34.3	36.3
36°	21.0	21.9	23.0	23.8	24.8	26.7	27.7	29.5	30.6	32.4	34.3
37°	19.0	20.0	21.9	21.9	23.8	24.8	26.7	27.7	29.5	30.6	32.4
38°	17.3	19.0	20.0	21.0	21.9	23.8	24.8	25.7	27.7	29.5	30.6
39°	16.2	18.1	19.0	20.0	21.0	21.9	23.0	24.8	25.7	27.7	28.5
40°	15.2	16.2	18.1	18.1	20.0	21.0	21.9	23.0	24.8	25.7	27.7
42.5°	12.5	14.4	15.2	16.2	17.3	18.1	19.0	20.0	21.0	23.0	23.8
45°	10.5	12.5	13.3	13.3	14.4	15.2	16.2	17.3	19.0	20.0	21.0
47.5°	8.5	10.5	11.4	12.5	12.5	13.3	14.4	15.2	16.2	17.3	18.1
50°	7.7	8.5	9.5	10.5	11.4	11.4	12.5	13.3	14.4	15.2	15.2
51°	7.7	8.5	9.5	9.5	10.5	11.4	12.5	12.5	13.3	14.4	14.4
52°	6.8	7.7	8.5	9.5	10.5	10.5	11.4	12.5	12.5	13.3	14.4
53°	6.8	7.7	8.5	8.5	9.5	10.5	10.5	11.4	12.5	12.5	13.3
54°	5.7	7.7	8.5	8.5	9.5	9.5	10.5	11.4	11.4	11.4	12.5
55°	5.7	6.8	7.7	8.5	8.5	9.5	9.5	10.5	10.5	11.4	11.4
57.5°	5.7	6.8	7.7	7.7	8.5	8.5	9.5	9.5	9.5	9.5	10.5
60°	4.8	5.7	6.8	7.7	7.7	8.5	8.5	8.5	8.5	8.5	9.5
61°	4.8	5.7	6.8	6.8	7.7	7.7	8.5	8.5	8.5	8.5	8.5
62°	4.8	5.7	6.8	6.8	7.7	7.7	7.7	8.5	8.5	8.5	8.5
63°	4.8	5.7	6.8	6.8	7.7	7.7	7.7	7.7	7.7	7.7	8.5
64°	4.8	5.7	6.8	6.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
65°	4.8	5.7	6.8	6.8	6.8	7.7	7.7	7.7	7.7	7.7	7.7
66°	4.8	5.7	6.8	6.8	6.8	6.8	7.7	7.7	7.7	7.7	6.8



TEST NUMBER: P1219531

CATALOG NUMBER: LDSQA4A20950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.8	4.8	4.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	4.8
75°	3.8	4.8	4.8	4.8	5.7	5.7	5.7	4.8	4.8	4.8	4.8
77.5°	3.8	3.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.8	3.8
80°	3.8	3.8	3.8	4.8	4.8	4.8	4.8	3.8	3.8	3.8	2.8
82.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8
85°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	1.9
87.5°	2.8	2.8	2.8	3.8	3.8	3.8	2.8	2.8	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

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219531

CATALOG NUMBER: LDSQA4A20950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0
2.5°	145.0	145.8	145.0	145.0	143.0	143.9	142.1	145.0
5°	132.5	133.4	132.5	132.5	130.5	130.5	129.7	132.5
7.5°	122.0	122.9	121.1	121.1	119.2	120.0	119.2	121.1
10°	111.5	111.5	111.5	110.6	109.6	110.6	109.6	111.5
12.5°	101.0	102.0	102.0	102.0	101.0	101.0	100.0	103.0
15°	92.6	93.4	94.3	94.3	93.4	94.3	93.4	95.3
17.5°	84.8	86.7	86.7	87.7	87.7	88.7	88.7	90.5
20°	77.2	80.1	80.1	81.0	81.0	83.0	83.0	84.8
22.5°	69.6	72.5	73.4	73.4	74.3	76.2	76.2	78.2
25°	63.0	65.7	66.8	66.8	67.7	69.6	69.6	71.4
26°	60.1	63.0	63.9	64.8	65.7	67.7	67.7	69.6
27°	57.2	60.1	60.9	62.0	63.0	64.8	64.8	66.8
28°	55.2	58.1	59.1	60.1	60.9	63.0	63.0	63.9
29°	52.4	55.2	56.3	57.2	58.1	60.1	60.1	62.0
30°	50.5	52.4	53.5	54.3	55.2	58.1	58.1	60.1
31°	47.6	50.5	51.5	52.4	53.5	55.2	55.2	58.1
32°	45.8	47.6	48.6	49.5	51.5	52.4	53.5	55.2
33°	43.0	45.8	46.8	47.6	48.6	50.5	51.5	53.5
34°	41.0	43.0	44.7	45.8	46.8	48.6	49.5	51.5
35°	39.0	41.0	41.9	43.0	44.7	46.8	46.8	48.6
36°	37.2	39.0	40.0	41.0	43.0	44.7	44.7	46.8
37°	35.3	37.2	38.2	39.0	41.0	43.0	43.0	44.7
38°	33.3	35.3	36.3	37.2	39.0	41.0	41.9	43.8
39°	31.4	34.3	35.3	36.3	37.2	39.0	40.0	41.0
40°	30.6	32.4	33.3	34.3	35.3	37.2	38.2	39.0
42.5°	25.7	28.5	29.5	30.6	31.4	32.4	33.3	34.3
45°	23.0	24.8	24.8	25.7	26.7	28.5	28.5	30.6
47.5°	20.0	21.0	21.9	21.9	23.0	24.8	24.8	25.7
50°	17.3	18.1	19.0	19.0	20.0	21.0	21.9	23.0
51°	16.2	17.3	17.3	18.1	19.0	20.0	21.0	21.9
52°	15.2	16.2	16.2	17.3	18.1	19.0	19.0	20.0
53°	14.4	15.2	15.2	16.2	16.2	18.1	18.1	19.0
54°	13.3	14.4	14.4	15.2	15.2	17.3	17.3	18.1
55°	12.5	13.3	14.4	14.4	14.4	15.2	16.2	17.3
57.5°	11.4	12.5	12.5	12.5	13.3	13.3	14.4	14.4
60°	9.5	10.5	10.5	10.5	11.4	11.4	11.4	12.5
61°	9.5	9.5	10.5	10.5	9.5	9.5	9.5	10.5
62°	8.5	9.5	9.5	8.5	8.5	8.5	8.5	9.5
63°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
64°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
65°	7.7	7.7	7.7	7.7	7.7	7.7	6.8	7.7
66°	6.8	7.7	7.7	6.8	6.8	6.8	6.8	6.8



TEST NUMBER: P1219531

CATALOG NUMBER: LDSQA4A20950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.8	4.8	4.8	4.8	4.8	3.8	3.8	3.8
75°	4.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8
77.5°	3.8	3.8	3.8	3.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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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67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8

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67.5°	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8	3.8
70°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8

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67.5°	4.8	5.7	5.7	5.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	4.8	4.8	5.7	5.7	5.7	6.8	6.8	5.7	5.7	5.7	5.7

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67.5°	6.8	6.8	6.8	6.8	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	4.8	4.8	4.8	4.8

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Peachtree City, GA 30269

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(END OF REPORT)