

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: P1212206

Luminaire Tested: **LDSQA4A20935D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212206
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: LDSQA4A20935D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

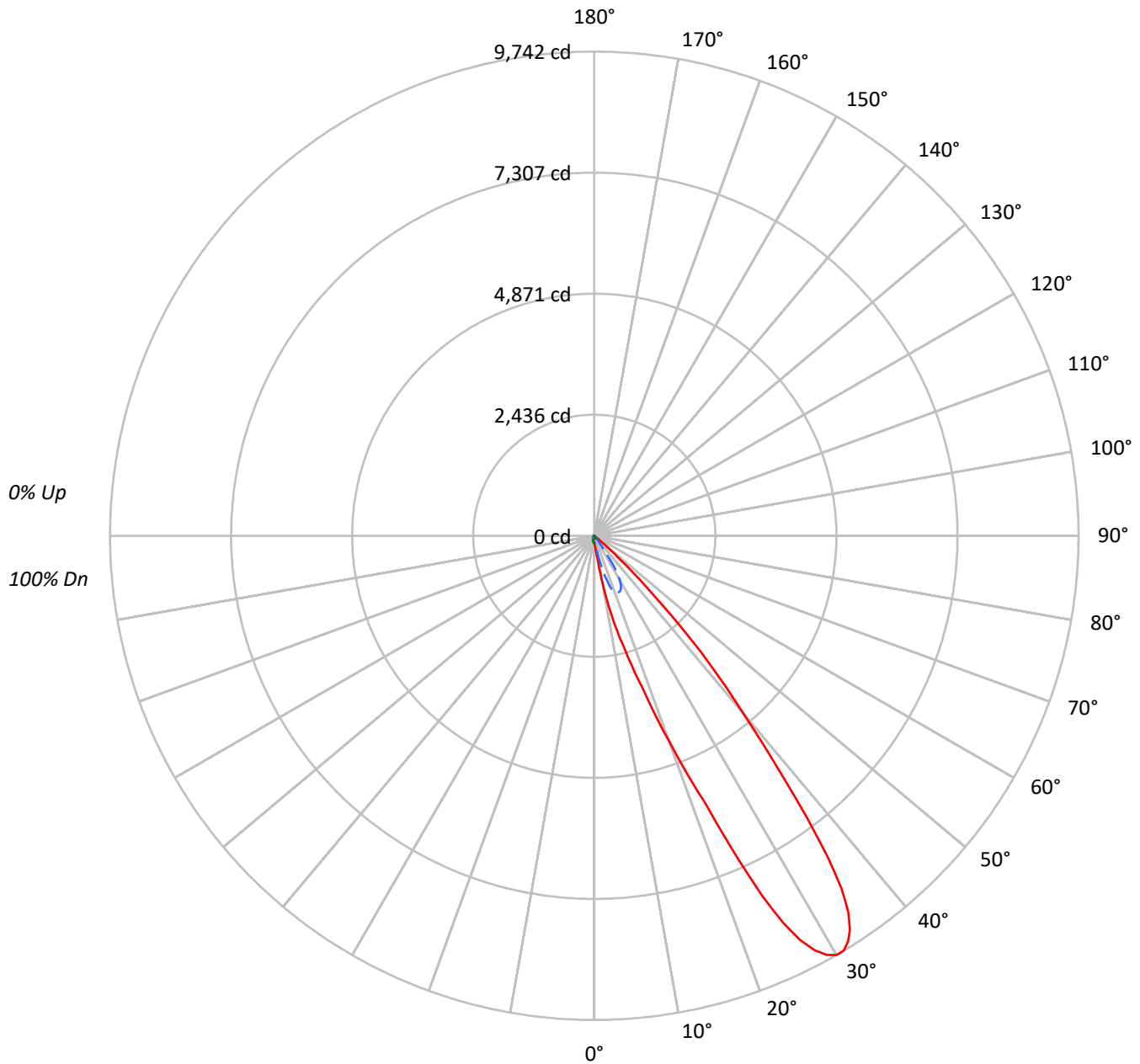
Lumens per Lamp: N/A
Luminaire Lumens: 1529.2 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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	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	86	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°	13979	13979	13979
5°	22211	13284	11485
10°	97288	11775	9778
15°	237684	9528	8515
20°	453474	7082	7783
25°	854609	5077	6809
30°	1089682	3602	5973
35°	1025033	2212	5121
40°	588035	1492	4414
45°	227013	1041	3713
50°	30187	769	3075
55°	4577	709	2584
60°	1318	659	2131
65°	779	779	1559
70°	482	963	1190
75°	636	936	936
80°	0	1395	948
85°	0	2779	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	1.2
10°-20°	163.9	10.7
20°-30°	522.7	34.2
30°-40°	605.7	39.6
40°-50°	196.9	12.9
50°-60°	12.5	0.8
60°-70°	4.5	0.3
70°-80°	3.2	0.2
80°-90°	1.9	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°	704.6	46.1
0°-40°	1310.2	85.7
0°-60°	1519.6	99.4
0°-90°	1529.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1529.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	144	144	144	144	144	
5°	228	191	137	120	118	44
15°	2370	854	95	82	85	751
25°	7995	1228	48	50	64	3592
35°	8667	293	19	29	43	4987
45°	1657	36	8	17	27	1480
55°	27	7	4	9	15	42
65°	3	2	3	7	7	3
75°	2	2	2	4	2	1
85°	0	2	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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	175.8	177.4	177.4	174.8	174.8	172.3	170.6	169.8	168.9	166.4	165.6
5°	228.4	230.1	230.9	224.2	221.5	216.4	212.2	208.0	202.9	197.0	191.0
7.5°	440.6	404.9	410.8	359.9	350.6	328.6	310.6	282.6	262.3	241.9	225.8
10°	989.0	955.0	949.0	874.3	800.5	745.3	685.9	583.1	489.8	390.4	309.8
12.5°	1694.2	1644.2	1616.2	1469.3	1382.8	1301.3	1210.5	1050.0	870.9	718.1	558.6
15°	2369.9	2365.7	2265.5	2101.8	1937.0	1836.9	1719.8	1521.1	1309.0	1076.3	853.9
17.5°	3185.8	3218.8	3047.3	2727.3	2466.8	2303.7	2142.5	1831.8	1567.0	1341.2	1097.5
20°	4398.7	4310.4	4010.7	3510.0	3069.4	2824.2	2573.7	2116.2	1736.7	1463.4	1216.4
22.5°	5823.9	5756.0	5195.8	4360.5	3661.8	3317.3	2972.6	2377.7	1883.5	1529.6	1239.3
25°	7995.2	7716.0	6628.6	5273.0	4205.1	3717.0	3274.9	2547.4	1949.8	1538.1	1228.2
26°	8661.5	8465.5	7210.9	5635.4	4372.4	3827.4	3350.4	2582.2	1954.9	1530.5	1207.0
27°	9134.3	8985.0	7695.6	5902.0	4493.8	3903.8	3399.5	2596.6	1943.0	1514.3	1178.2
28°	9445.9	9326.2	8061.4	6094.7	4567.6	3944.5	3423.4	2593.3	1919.2	1486.4	1137.4
29°	9643.6	9528.2	8275.3	6204.2	4593.9	3951.4	3417.4	2567.8	1881.0	1444.8	1078.9
30°	9741.3	9615.6	8347.4	6216.1	4565.1	3912.2	3372.4	2511.7	1828.4	1394.6	1014.3
31°	9742.1	9603.0	8287.3	6124.3	4479.3	3829.0	3292.6	2418.3	1759.7	1335.3	927.8
32°	9629.3	9485.8	8086.0	5938.5	4345.2	3724.6	3185.8	2323.3	1687.5	1269.0	803.0
33°	9440.0	9270.2	7737.2	5680.5	4173.8	3582.1	3057.5	2217.2	1615.4	1163.0	639.2
34°	9134.3	8902.6	7249.9	5367.2	3966.6	3415.8	2910.6	2102.6	1542.3	1015.3	456.6
35°	8667.4	8340.7	6686.2	5020.9	3745.0	3235.8	2745.2	1982.9	1453.2	832.7	292.9
36°	7991.8	7569.9	6099.7	4662.6	3516.8	3046.5	2577.1	1867.4	1312.2	631.5	191.8
37°	7109.8	6738.1	5538.6	4301.9	3279.9	2844.5	2423.4	1751.1	1139.1	441.4	156.2
38°	6204.2	5930.0	4990.3	3943.7	3034.6	2626.3	2236.7	1629.8	949.8	290.2	130.7
39°	5387.6	5204.2	4453.9	3589.0	2781.7	2435.4	2049.9	1475.2	747.8	206.2	110.3
40°	4649.9	4523.5	3935.3	3227.4	2528.6	2204.4	1874.2	1285.9	539.0	164.6	92.6
42.5°	3171.3	3108.5	2752.8	2322.4	1870.9	1684.9	1476.2	773.4	213.9	104.4	56.1
45°	1657.0	1629.8	1500.7	1359.8	1219.8	1171.4	949.0	347.1	120.6	61.1	35.7
47.5°	645.1	646.8	534.8	456.6	433.8	403.2	305.5	124.8	67.9	37.4	23.8
50°	200.3	215.6	198.6	187.6	143.4	119.7	99.4	62.0	36.5	22.9	15.3
51°	123.0	130.7	123.0	123.0	101.0	88.3	75.5	47.5	28.9	18.7	13.6
52°	79.8	84.0	79.8	74.6	69.6	62.8	54.3	35.7	22.9	15.3	11.0
53°	54.3	56.9	54.3	51.0	46.7	43.3	38.2	26.3	18.7	12.7	9.4
54°	38.2	39.9	38.2	35.7	33.0	30.6	28.0	20.4	15.3	11.0	8.6
55°	27.1	28.9	28.0	26.3	23.8	22.9	21.2	16.2	12.7	9.4	6.8
57.5°	12.7	13.6	13.6	12.7	12.7	11.8	11.0	10.2	7.6	5.9	5.1
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.1	4.2	4.2
61°	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.1	4.2	4.2	3.4
62°	4.2	4.2	4.2	4.2	4.2	5.1	5.1	4.2	4.2	3.4	3.4
63°	3.4	3.4	3.4	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4
64°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5
65°	3.4	3.4	2.5	2.5	2.5	3.4	2.5	3.4	2.5	2.5	2.5
66°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
77.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7
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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	160.5	156.2	154.4	152.8	151.9	150.2	147.7	145.2	144.3	141.0	137.5
5°	180.7	173.1	167.2	161.3	159.5	155.4	150.2	144.3	141.8	136.6	132.4
7.5°	204.6	189.3	178.2	168.1	163.8	158.7	149.4	141.8	136.6	129.0	124.0
10°	244.5	208.8	187.6	169.8	163.0	156.2	144.3	134.2	127.3	119.7	113.8
12.5°	387.1	270.8	203.8	170.6	161.3	151.1	136.6	124.8	116.2	107.8	102.7
15°	610.2	412.6	263.9	179.1	157.8	142.6	125.6	112.0	103.6	95.0	89.9
17.5°	814.9	555.1	344.6	199.4	159.5	135.0	112.0	98.5	89.1	81.5	78.1
20°	913.4	622.2	383.7	203.8	149.4	120.6	96.7	84.0	75.5	68.7	65.3
22.5°	922.7	618.0	359.9	174.0	124.0	101.8	81.5	69.6	62.8	57.8	54.3
25°	878.6	548.4	288.6	128.2	96.7	84.9	67.1	56.9	51.8	47.5	45.0
26°	844.6	508.5	253.8	111.2	88.3	77.3	61.1	52.6	47.5	44.1	41.6
27°	797.9	461.8	213.1	95.9	81.5	69.6	56.1	48.3	44.1	41.6	39.0
28°	741.9	415.9	176.6	84.9	73.8	62.8	51.8	44.1	40.8	38.2	35.7
29°	681.6	355.7	138.3	76.5	66.2	56.9	46.7	39.9	36.5	34.9	33.0
30°	596.7	276.7	106.1	68.7	59.4	51.0	42.4	36.5	33.9	32.2	30.6
31°	477.0	190.1	85.7	61.1	53.4	45.8	38.2	33.0	30.6	28.9	28.0
32°	342.1	117.1	74.6	54.3	47.5	41.6	33.0	29.8	27.1	26.3	25.4
33°	210.5	95.9	66.2	48.3	41.6	36.5	29.8	26.3	24.6	23.8	22.9
34°	138.3	83.2	58.6	41.6	36.5	31.4	25.4	22.9	22.1	21.2	21.2
35°	117.1	73.8	51.0	35.7	30.6	27.1	22.1	20.4	19.5	18.7	19.5
36°	101.0	64.5	42.4	30.6	26.3	22.9	19.5	17.8	17.0	17.0	17.8
37°	89.1	54.3	35.7	25.4	22.9	20.4	17.0	16.2	15.3	15.3	16.2
38°	75.5	44.1	29.8	22.1	19.5	17.0	15.3	14.5	14.5	14.5	15.3
39°	62.0	37.4	25.4	18.7	17.0	15.3	13.6	12.7	12.7	13.6	13.6
40°	51.0	31.4	21.2	16.2	14.5	13.6	11.8	11.8	11.8	11.8	12.7
42.5°	33.0	21.2	15.3	11.8	11.0	10.2	9.4	9.4	9.4	9.4	10.2
45°	22.1	15.3	11.8	9.4	8.6	7.6	7.6	6.8	7.6	7.6	8.6
47.5°	15.3	11.0	8.6	6.8	5.9	5.1	5.1	5.1	5.9	6.8	6.8
50°	11.0	7.6	5.9	4.2	4.2	4.2	4.2	4.2	5.1	5.1	5.9
51°	9.4	6.8	5.1	4.2	4.2	3.4	3.4	3.4	4.2	5.1	5.9
52°	7.6	5.9	4.2	3.4	3.4	3.4	3.4	3.4	4.2	4.2	5.1
53°	6.8	5.1	4.2	3.4	3.4	3.4	3.4	3.4	4.2	4.2	5.1
54°	5.9	4.2	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2	5.1
55°	5.1	4.2	3.4	3.4	2.5	2.5	2.5	2.5	3.4	4.2	4.2
57.5°	4.2	3.4	3.4	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
60°	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
61°	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
62°	3.4	2.5	3.4	3.4	3.4	2.5	2.5	2.5	3.4	3.4	4.2
63°	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4	3.4	3.4
64°	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2
65°	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2
66°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4
75°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4
77.5°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4
80°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	135.8	135.8	135.0	133.2	135.0	133.2	131.6	130.7	129.9	129.0	127.3
5°	129.0	128.2	126.5	125.6	125.6	124.0	122.2	120.6	119.7	118.9	117.1
7.5°	120.6	119.7	117.1	116.2	116.2	114.6	112.0	111.2	110.3	109.5	107.8
10°	110.3	109.5	106.9	106.1	106.1	104.4	102.7	101.0	100.2	99.4	97.7
12.5°	98.5	97.7	95.9	95.0	95.0	93.4	91.6	90.8	90.8	89.9	89.1
15°	86.6	85.7	84.0	84.0	84.0	82.4	81.5	80.6	81.5	81.5	80.6
17.5°	74.6	73.8	72.2	72.2	72.2	72.2	71.4	71.4	72.2	73.0	73.0
20°	62.8	62.0	62.0	61.1	62.0	62.8	62.0	62.8	64.5	65.3	66.2
22.5°	51.8	51.8	51.8	51.8	52.6	53.4	53.4	55.2	56.9	57.8	59.4
25°	43.3	43.3	44.1	44.1	45.0	45.8	46.7	47.5	50.2	51.8	52.6
26°	39.9	40.8	40.8	41.6	42.4	43.3	44.1	45.0	47.5	49.2	50.2
27°	37.4	37.4	38.2	39.0	39.9	40.8	41.6	43.3	45.0	46.7	48.3
28°	34.9	34.9	35.7	36.5	37.4	38.2	39.0	40.8	42.4	45.0	45.8
29°	32.2	33.0	33.0	33.9	34.9	35.7	37.4	38.2	40.8	42.4	44.1
30°	29.8	30.6	31.4	31.4	32.2	33.0	34.9	36.5	38.2	40.8	41.6
31°	28.0	28.9	28.9	29.8	30.6	31.4	33.0	34.9	36.5	38.2	39.9
32°	25.4	27.1	27.1	27.1	28.0	29.8	31.4	32.2	34.9	36.5	37.4
33°	23.8	24.6	25.4	25.4	26.3	28.0	29.8	30.6	33.0	34.9	35.7
34°	22.1	22.9	23.8	23.8	24.6	26.3	28.0	28.9	31.4	32.2	33.9
35°	20.4	21.2	22.1	22.1	22.9	24.6	26.3	27.1	28.9	30.6	32.2
36°	18.7	19.5	20.4	21.2	22.1	23.8	24.6	26.3	27.1	28.9	30.6
37°	17.0	17.8	19.5	19.5	21.2	22.1	23.8	24.6	26.3	27.1	28.9
38°	15.3	17.0	17.8	18.7	19.5	21.2	22.1	22.9	24.6	26.3	27.1
39°	14.5	16.2	17.0	17.8	18.7	19.5	20.4	22.1	22.9	24.6	25.4
40°	13.6	14.5	16.2	16.2	17.8	18.7	19.5	20.4	22.1	22.9	24.6
42.5°	11.0	12.7	13.6	14.5	15.3	16.2	17.0	17.8	18.7	20.4	21.2
45°	9.4	11.0	11.8	11.8	12.7	13.6	14.5	15.3	17.0	17.8	18.7
47.5°	7.6	9.4	10.2	11.0	11.0	11.8	12.7	13.6	14.5	15.3	16.2
50°	6.8	7.6	8.6	9.4	10.2	10.2	11.0	11.8	12.7	13.6	13.6
51°	6.8	7.6	8.6	8.6	9.4	10.2	11.0	11.0	11.8	12.7	12.7
52°	5.9	6.8	7.6	8.6	9.4	9.4	10.2	11.0	11.0	11.8	12.7
53°	5.9	6.8	7.6	7.6	8.6	9.4	9.4	10.2	11.0	11.0	11.8
54°	5.1	6.8	7.6	7.6	8.6	8.6	9.4	10.2	10.2	10.2	11.0
55°	5.1	5.9	6.8	7.6	7.6	8.6	8.6	9.4	9.4	10.2	10.2
57.5°	5.1	5.9	6.8	6.8	7.6	7.6	8.6	8.6	8.6	8.6	9.4
60°	4.2	5.1	5.9	6.8	6.8	7.6	7.6	7.6	7.6	7.6	8.6
61°	4.2	5.1	5.9	5.9	6.8	6.8	7.6	7.6	7.6	7.6	7.6
62°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6
63°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	7.6
64°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	4.2	5.1	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
66°	4.2	5.1	5.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	5.9

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212206

CATALOG NUMBER: LDSQA4A20935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.4	4.2	4.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.2
75°	3.4	4.2	4.2	4.2	5.1	5.1	5.1	4.2	4.2	4.2	4.2
77.5°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4
80°	3.4	3.4	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4	2.5
82.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5
85°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	1.7
87.5°	2.5	2.5	2.5	3.4	3.4	3.4	2.5	2.5	1.7	1.7	1.7
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: P1212206

CATALOG NUMBER: LDSQA4A20935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	129.0	129.9	129.0	129.0	127.3	128.2	126.5	129.0
5°	118.1	118.9	118.1	118.1	116.2	116.2	115.4	118.1
7.5°	108.6	109.5	107.8	107.8	106.1	106.9	106.1	107.8
10°	99.4	99.4	99.4	98.5	97.7	98.5	97.7	99.4
12.5°	89.9	90.8	90.8	90.8	89.9	89.9	89.1	91.6
15°	82.4	83.2	84.0	84.0	83.2	84.0	83.2	84.9
17.5°	75.5	77.3	77.3	78.1	78.1	79.0	79.0	80.6
20°	68.7	71.4	71.4	72.2	72.2	73.8	73.8	75.5
22.5°	62.0	64.5	65.3	65.3	66.2	67.9	67.9	69.6
25°	56.1	58.6	59.4	59.4	60.2	62.0	62.0	63.7
26°	53.4	56.1	56.9	57.8	58.6	60.2	60.2	62.0
27°	51.0	53.4	54.3	55.2	56.1	57.8	57.8	59.4
28°	49.2	51.8	52.6	53.4	54.3	56.1	56.1	56.9
29°	46.7	49.2	50.2	51.0	51.8	53.4	53.4	55.2
30°	45.0	46.7	47.5	48.3	49.2	51.8	51.8	53.4
31°	42.4	45.0	45.8	46.7	47.5	49.2	49.2	51.8
32°	40.8	42.4	43.3	44.1	45.8	46.7	47.5	49.2
33°	38.2	40.8	41.6	42.4	43.3	45.0	45.8	47.5
34°	36.5	38.2	39.9	40.8	41.6	43.3	44.1	45.8
35°	34.9	36.5	37.4	38.2	39.9	41.6	41.6	43.3
36°	33.0	34.9	35.7	36.5	38.2	39.9	39.9	41.6
37°	31.4	33.0	33.9	34.9	36.5	38.2	38.2	39.9
38°	29.8	31.4	32.2	33.0	34.9	36.5	37.4	39.0
39°	28.0	30.6	31.4	32.2	33.0	34.9	35.7	36.5
40°	27.1	28.9	29.8	30.6	31.4	33.0	33.9	34.9
42.5°	22.9	25.4	26.3	27.1	28.0	28.9	29.8	30.6
45°	20.4	22.1	22.1	22.9	23.8	25.4	25.4	27.1
47.5°	17.8	18.7	19.5	19.5	20.4	22.1	22.1	22.9
50°	15.3	16.2	17.0	17.0	17.8	18.7	19.5	20.4
51°	14.5	15.3	15.3	16.2	17.0	17.8	18.7	19.5
52°	13.6	14.5	14.5	15.3	16.2	17.0	17.0	17.8
53°	12.7	13.6	13.6	14.5	14.5	16.2	16.2	17.0
54°	11.8	12.7	12.7	13.6	13.6	15.3	15.3	16.2
55°	11.0	11.8	12.7	12.7	12.7	13.6	14.5	15.3
57.5°	10.2	11.0	11.0	11.0	11.8	11.8	12.7	12.7
60°	8.6	9.4	9.4	9.4	10.2	10.2	10.2	11.0
61°	8.6	8.6	9.4	9.4	8.6	8.6	8.6	9.4
62°	7.6	8.6	8.6	7.6	7.6	7.6	7.6	8.6
63°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
64°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	6.8	6.8	6.8	6.8	6.8	6.8	5.9	6.8
66°	5.9	6.8	6.8	5.9	5.9	5.9	5.9	5.9

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212206

CATALOG NUMBER: LDSQA4A20935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
75°	4.2	3.4	3.4	3.4	3.4	3.4	3.4	2.5
77.5°	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5

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67.5°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4	3.4
70°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4

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Peachtree City, GA 30269

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Peachtree City, GA 30269

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67.5°	4.2	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.2	4.2	5.1	5.1	5.1	5.9	5.9	5.1	5.1	5.1	5.1

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67.5°	5.9	5.9	5.9	5.9	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	4.2	4.2	4.2	4.2

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(END OF REPORT)