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

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: P208821

Luminaire Tested: **LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P208821
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29054)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°
Description:	PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source:	(1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1244.3 lumens
Efficiency:	N/A
Efficacy:	57.1 lumens/watt
Spacing Criteria (0/90/45):	2.18 / 0.62 / 1.12
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type:	Direct

Input Watts (W):	21.79
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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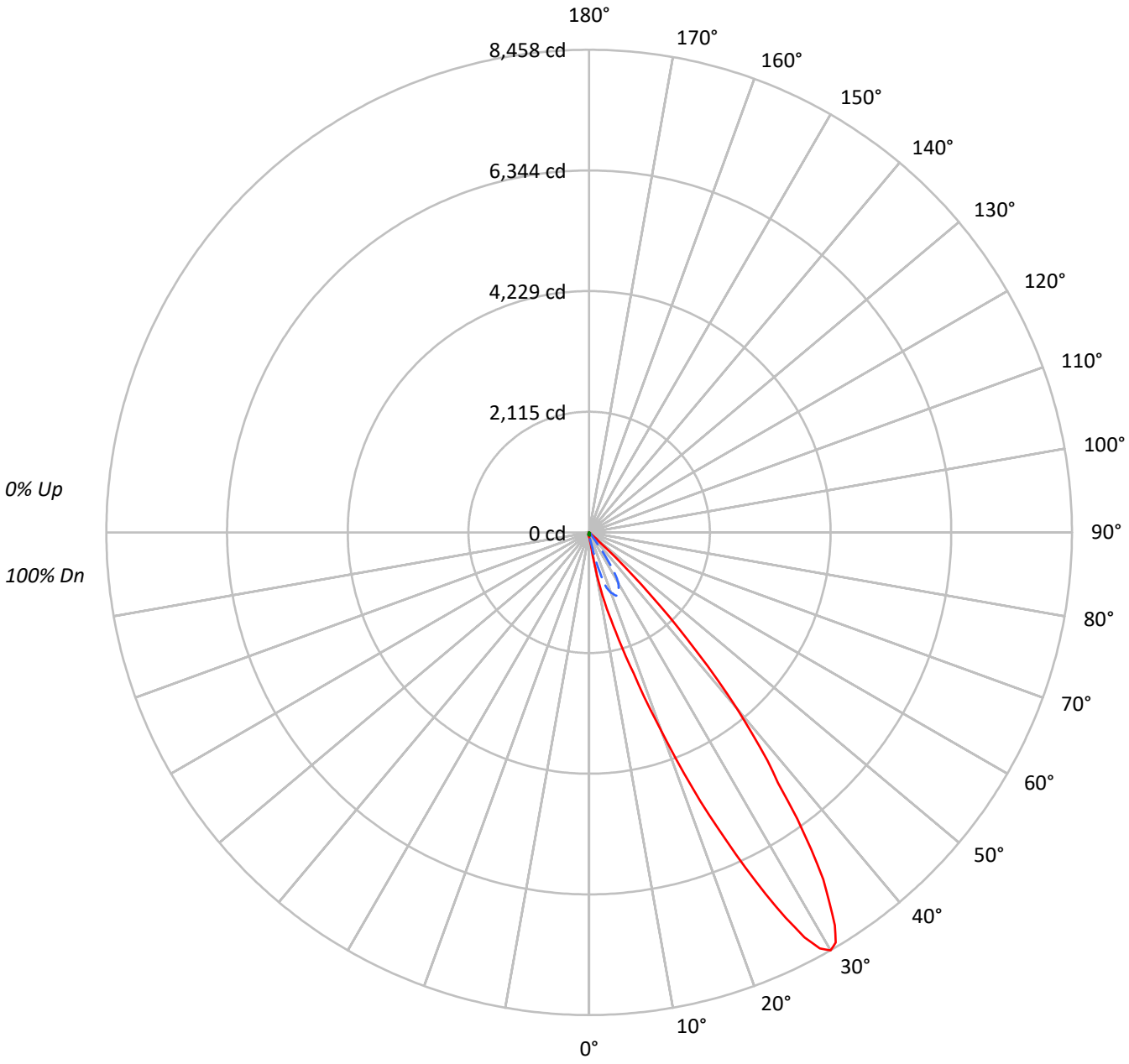
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	91	86	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	77	70	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	64	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°	3513	3513	3513
5°	5415	3324	2671
10°	29043	2955	2217
15°	80083	2389	1894
20°	170061	1787	1654
25°	307829	1302	1439
30°	420511	955	1273
35°	356449	673	1162
40°	226265	461	1113
45°	78420	353	1029
50°	4803	275	898
55°	833	218	698
60°	198	198	448
65°	122	234	357
70°	151	290	365
75°	0	383	383
80°	0	570	298
85°	0	1136	296

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	0.8
10°-20°	127.9	10.3
20°-30°	444.7	35.7
30°-40°	487.5	39.2
40°-50°	160.8	12.9
50°-60°	6.7	0.5
60°-70°	2.9	0.2
70°-80°	2.2	0.2
80°-90°	1.5	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°	582.8	46.8
0°-40°	1070.2	86.0
0°-60°	1237.7	99.5
0°-90°	1244.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	125	102	77	66	62	26
15°	1797	732	54	43	42	597
25°	6480	1201	27	27	30	3033
35°	6782	400	13	17	22	4076
45°	1288	20	6	12	17	1135
55°	11	2	3	8	9	16
65°	1	2	2	5	4	1
75°	0	2	2	3	2	0
85°	0	2	2	2	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	96.7	96.2	96.2	96.2	95.6	94.4	94.4	95.0	95.0	94.4	95.0
5°	125.3	124.1	123.5	123.0	120.6	120.0	117.7	119.5	117.7	116.0	116.0
7.5°	229.6	229.0	219.1	212.7	201.6	188.8	185.3	185.9	177.7	170.2	165.5
10°	664.3	665.5	636.4	648.0	606.1	589.2	557.1	545.5	516.3	491.8	462.1
11°	888.7	887.5	850.8	861.9	819.4	795.5	759.3	740.7	704.0	679.5	642.2
12°	1131.1	1095.6	1083.3	1093.8	1050.1	1018.7	975.0	951.1	905.6	880.5	835.7
13°	1371.2	1360.7	1319.9	1329.9	1285.0	1216.2	1198.2	1169.6	1116.6	1086.8	1036.7
14°	1579.3	1540.8	1528.0	1534.4	1490.1	1424.8	1406.8	1398.0	1316.5	1284.4	1228.5
15°	1796.6	1750.0	1732.0	1708.1	1681.8	1604.3	1578.1	1561.2	1476.7	1423.1	1387.0
17.5°	2586.9	2521.0	2476.7	2422.5	2364.8	2221.5	2162.0	2105.5	1957.5	1886.4	1779.2
20°	3711.6	3610.8	3497.1	3379.4	3266.4	3013.4	2866.6	2709.2	2507.0	2338.0	2209.8
21°	4255.9	4135.3	3998.3	3909.7	3697.0	3388.2	3190.0	2965.7	2705.7	2496.5	2335.1
22°	4826.4	4688.9	4574.7	4444.1	4149.2	3780.9	3532.1	3244.2	2908.0	2649.8	2445.8
23°	5380.6	5225.0	5088.1	4929.0	4588.1	4161.5	3866.0	3522.8	3117.8	2796.7	2544.3
24°	5909.7	5748.3	5591.0	5381.8	4991.3	4519.9	4172.5	3781.5	3317.6	2937.7	2637.0
25°	6479.7	6290.9	6087.5	5769.3	5372.4	4839.2	4439.5	4006.5	3495.4	3067.6	2715.1
26°	7047.3	6827.0	6522.2	6198.2	5723.8	5127.1	4671.4	4188.9	3646.9	3172.0	2772.8
27°	7579.9	7343.9	6986.1	6542.6	6039.1	5373.6	4862.5	4333.4	3752.4	3239.6	2799.6
28°	8035.7	7775.7	7377.1	6871.9	6274.0	5554.8	4989.0	4418.5	3803.1	3265.2	2803.1
29°	8335.8	8076.4	7647.0	7085.8	6406.8	5644.6	5039.1	4437.1	3800.2	3250.0	2779.2
30°	8458.2	8196.5	7757.7	7155.7	6431.9	5646.3	5018.7	4398.1	3749.5	3202.3	2732.0
31°	8386.5	8135.3	7690.1	7084.0	6343.3	5564.8	4933.0	4299.6	3648.6	3117.8	2661.5
32°	8121.9	7891.7	7464.0	6887.0	6160.9	5401.0	4785.6	4153.9	3506.5	3007.6	2573.5
33°	7718.6	7526.9	7089.8	6557.8	5917.3	5199.9	4606.1	4005.9	3335.1	2873.0	2479.6
34°	7332.3	7049.0	6661.5	6188.9	5605.0	4938.9	4383.5	3772.8	3153.3	2725.0	2372.4
35°	6781.6	6528.1	6170.2	5765.8	5241.3	4620.1	4064.7	3545.5	2949.9	2582.2	2259.9
36°	6200.5	5977.3	5717.4	5355.0	4853.2	4287.4	3779.2	3266.4	2740.7	2423.1	2141.1
37°	5490.7	5440.6	5198.8	4896.3	4448.2	3925.5	3447.6	3004.1	2544.9	2276.3	2010.5
38°	5071.7	4907.4	4686.0	4419.6	3980.2	3561.8	3127.7	2740.7	2367.2	2138.7	1861.9
39°	4538.5	4399.8	4195.9	3956.3	3578.1	3183.0	2829.9	2521.0	2220.3	2000.0	1701.7
40°	4025.7	3910.3	3723.2	3517.5	3174.3	2849.1	2572.9	2327.5	2074.6	1852.0	1543.1
42.5°	2538.5	2481.4	2404.5	2376.5	2253.5	2169.0	2068.2	1926.6	1704.0	1453.4	1237.8
45°	1287.9	1251.2	1250.0	1307.1	1346.2	1350.3	1340.9	1304.8	1160.3	1088.6	896.9
47.5°	216.8	206.3	212.7	251.2	305.4	371.2	444.6	535.0	631.7	611.3	470.9
50°	71.7	69.3	67.6	69.3	67.0	68.8	67.6	65.9	59.4	62.4	64.1
51°	44.3	47.2	45.5	46.6	46.0	47.8	47.8	47.2	43.1	40.2	36.7
52°	30.3	30.9	31.5	32.1	31.5	32.1	32.6	32.6	31.5	30.3	27.4
53°	21.6	21.6	22.1	22.1	22.1	22.7	22.7	22.7	22.1	22.1	21.6
54°	15.2	15.7	15.7	15.7	15.7	16.3	16.3	16.3	16.9	16.3	16.3
55°	11.1	11.1	11.1	11.1	11.1	11.1	11.7	11.7	12.2	12.2	11.7
57.5°	4.7	4.7	4.1	4.7	4.7	4.7	4.7	5.2	5.2	5.8	5.8
60°	2.3	2.3	2.3	2.3	1.7	2.3	2.3	2.3	2.3	2.9	2.9

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	*1.2*	1.2	1.2	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2
64°	*1.2*	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
65°	*1.2*	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
66°	*1.2*	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
67.5°	*1.2*	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6
70°	*1.2*	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	*1.2*	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
82.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	93.2	94.4	92.7	93.8	91.5	91.5	89.7	90.3	89.7	88.6	88.6
5°	113.1	113.1	110.1	110.1	106.6	104.9	102.0	102.0	100.2	97.3	96.7
7.5°	155.0	149.2	142.8	140.4	133.5	128.8	123.5	121.2	116.0	111.3	107.8
10°	414.9	376.5	338.6	315.3	258.2	216.8	185.9	164.9	149.8	131.7	124.7
11°	585.1	536.1	486.6	438.2	382.3	325.8	290.2	234.3	198.7	158.5	139.3
12°	769.2	711.5	651.5	596.7	529.7	458.6	409.7	338.6	288.5	221.4	174.8
13°	958.1	892.8	821.1	764.0	688.2	606.7	529.7	463.9	401.5	314.1	245.9
14°	1139.9	1070.5	991.9	931.8	846.7	758.2	671.3	598.5	522.7	418.4	334.5
15°	1301.9	1252.3	1152.7	1093.3	1001.8	907.4	810.6	732.5	642.8	526.8	430.1
17.5°	1641.0	1549.6	1427.8	1368.9	1278.0	1196.4	1091.5	1021.0	910.3	787.9	681.2
20°	2040.8	1906.2	1741.3	1617.2	1459.8	1316.5	1184.2	1128.8	1060.0	976.7	877.1
21°	2150.4	2005.3	1825.2	1698.7	1537.3	1389.9	1234.3	1146.3	1071.1	998.8	915.5
22°	2230.2	2076.9	1887.6	1755.8	1589.8	1443.5	1284.4	1178.9	1078.7	997.1	921.9
23°	2297.8	2134.6	1937.7	1794.3	1620.7	1469.7	1310.0	1205.1	1094.4	993.0	911.4
24°	2359.0	2180.1	1973.2	1819.4	1636.4	1479.0	1313.5	1209.8	1102.0	995.4	897.4
25°	2405.0	2208.7	1993.6	1832.2	1639.9	1476.1	1305.4	1201.1	1093.3	987.8	881.7
26°	2436.5	2222.1	1999.4	1831.6	1632.9	1464.5	1288.5	1183.0	1072.3	960.4	856.1
27°	2446.4	2218.6	1991.3	1818.2	1615.4	1441.7	1259.9	1148.6	1039.6	927.8	821.7
28°	2436.5	2204.6	1972.6	1792.0	1586.3	1404.4	1213.9	1103.2	1004.7	891.6	779.7
29°	2409.1	2179.5	1938.3	1752.9	1540.2	1343.8	1155.0	1059.5	964.5	836.8	709.2
30°	*2366.6*	*2134.1*	*1888.7*	*1695.8*	*1472.0*	*1267.5*	*1102.0*	*1019.2*	*898.0*	*748.3*	*610.7*
31°	2307.1	2075.2	1824.6	1620.1	1381.1	1192.9	1056.0	944.1	794.3	631.1	490.7
32°	2234.9	2005.3	1731.4	1519.3	1291.4	1134.0	974.4	829.3	663.2	492.4	357.8
33°	2157.4	1915.5	1624.7	1413.2	1214.5	1055.4	856.7	687.7	516.3	346.2	225.5
34°	2067.6	1805.4	1505.3	1306.5	1128.2	937.1	716.8	534.4	368.3	210.4	116.0
35°	1959.2	1669.6	1386.4	1214.5	1004.7	780.3	563.5	400.4	230.8	106.1	62.9
36°	1828.1	1529.7	1283.2	1096.2	860.2	626.5	406.8	255.2	124.1	62.4	49.5
37°	1661.4	1414.9	1174.8	955.1	704.0	470.3	262.2	138.7	71.1	50.7	42.0
38°	1517.5	1308.9	1058.9	801.3	542.5	322.3	159.1	78.1	55.9	42.5	35.0
39°	1393.4	1195.2	906.8	639.3	387.0	195.2	87.4	59.4	46.6	35.0	29.7
40°	1285.0	1033.2	745.9	479.6	248.8	108.4	62.9	49.5	37.9	29.1	23.9
42.5°	942.9	655.6	345.6	155.0	72.8	54.2	39.6	31.5	24.5	18.1	15.2
45°	560.0	294.9	104.3	63.5	46.0	34.4	25.1	19.8	15.2	11.1	9.3
47.5°	204.5	74.6	51.3	38.5	29.1	21.6	15.7	12.2	9.3	6.4	5.2
50°	42.0	36.1	28.0	22.7	16.9	12.8	9.3	7.0	5.2	4.1	3.5
51°	32.1	28.0	22.7	18.1	13.4	10.5	7.6	5.8	4.7	3.5	2.9
52°	24.5	21.6	17.5	14.6	11.1	8.2	5.8	4.7	3.5	2.3	2.3
53°	19.2	16.9	13.4	11.1	8.7	6.4	4.7	3.5	2.9	2.3	2.3
54°	14.6	12.8	10.5	8.7	7.0	5.2	3.5	2.9	2.3	2.3	1.7
55°	10.5	9.9	8.2	6.4	5.2	4.1	2.9	2.3	2.3	1.7	1.7
57.5°	5.2	4.7	4.1	3.5	2.9	2.3	1.7	1.7	1.7	1.7	1.2
60°	2.9	2.3	2.3	2.3	1.7	1.7	1.7	1.2	1.2	1.7	1.7

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CATALOG NUMBER: LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.2	1.2	1.2	1.2	1.7	1.2	1.2	1.2	1.7	1.7	1.7
64°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
65°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
66°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
75°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
77.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
80°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
82.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
85°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
87.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.7	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

Scaled Data Report

TEST NUMBER: P208821
CATALOG NUMBER: LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	86.8	88.0	86.8	85.7	85.1	85.1	84.5	82.8	83.3	82.8	82.8
5°	93.8	94.4	92.1	90.3	89.2	88.0	86.8	84.5	83.9	83.3	82.8
7.5°	103.1	102.6	97.9	95.0	92.1	89.7	87.4	84.5	83.3	81.6	80.4
10°	116.6	112.5	104.9	99.7	95.6	90.9	87.4	82.8	80.4	78.1	76.3
11°	122.4	116.6	109.0	102.0	96.7	91.5	87.4	81.6	78.7	76.3	74.0
12°	140.4	124.7	112.5	104.9	97.9	92.1	86.8	81.0	77.5	74.0	71.7
13°	181.8	145.1	120.0	106.6	99.7	92.7	86.2	79.8	75.8	71.7	69.3
14°	249.4	186.5	138.7	113.1	100.2	92.7	85.7	78.7	74.0	69.9	67.0
15°	330.4	250.6	176.6	128.8	102.6	92.1	84.5	76.9	71.7	67.0	64.1
17.5°	556.5	452.2	339.2	241.3	149.2	100.8	79.8	71.1	64.7	59.4	55.9
20°	745.9	625.9	498.3	376.5	258.2	160.8	92.1	64.7	57.1	51.3	47.8
21°	787.3	674.8	539.6	412.0	289.6	186.5	104.3	64.7	54.2	48.4	44.9
22°	808.9	700.5	565.3	435.3	311.2	204.5	117.1	65.3	51.3	45.5	41.4
23°	805.4	706.3	575.2	442.3	321.1	213.3	122.4	65.9	48.4	42.5	38.5
24°	784.4	690.6	565.3	434.2	318.2	211.0	120.6	64.7	45.5	39.6	36.1
25°	758.2	659.7	538.5	412.0	299.5	196.4	111.9	60.6	43.1	37.3	33.8
26°	728.4	628.8	501.2	373.0	269.2	171.9	94.4	53.6	39.6	34.4	31.5
27°	692.9	588.6	455.1	331.6	227.3	138.7	75.8	45.5	36.7	31.5	29.1
28°	639.9	531.5	396.3	276.8	181.8	104.9	57.1	39.0	33.8	29.1	26.8
29°	560.6	451.1	322.8	216.2	133.5	72.3	43.7	35.0	30.3	26.2	24.5
30°	*461.5*	*356.6*	*239.5*	*148.6*	*85.7*	*49.0*	*35.5*	*30.9*	*26.8*	*23.9*	*22.7*
31°	349.7	253.5	155.0	85.7	51.3	36.1	31.5	26.8	23.9	21.6	21.0
32°	230.8	153.3	82.2	49.5	37.3	31.5	27.4	23.9	21.6	19.8	19.2
33°	123.5	70.5	47.2	37.3	31.5	27.4	23.9	21.0	19.2	18.1	17.5
34°	62.9	46.0	38.5	32.1	26.8	23.9	21.0	18.6	17.5	16.3	15.7
35°	46.6	39.6	33.2	27.4	23.3	21.0	18.6	16.9	15.7	14.6	14.6
36°	39.6	33.2	27.4	23.9	21.0	18.6	16.9	14.6	14.0	13.4	12.8
37°	33.2	28.6	23.9	20.4	18.1	16.3	14.6	13.4	12.2	11.7	11.7
38°	28.0	24.5	20.4	17.5	15.7	14.6	12.8	11.7	11.1	10.5	10.5
39°	23.3	20.4	17.5	15.2	13.4	12.2	11.1	10.5	9.9	9.3	9.3
40°	19.2	17.5	14.6	12.8	11.7	10.5	9.9	9.3	8.7	8.2	8.7
42.5°	12.2	10.5	9.3	8.7	7.6	7.6	7.0	6.4	6.4	6.4	6.4
45°	7.0	6.4	5.8	5.8	5.2	5.2	5.2	4.7	5.2	5.2	5.2
47.5°	4.1	4.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.1
50°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9
51°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9
52°	2.3	2.3	2.3	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
53°	1.7	2.3	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
54°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3

TEST NUMBER: P208821
CATALOG NUMBER: LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7	1.7	2.3	2.3
64°	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7	1.7	1.7	2.3
65°	1.7	1.7	2.3	2.3	2.3	2.3	1.7	1.7	1.7	1.7	2.3
66°	1.7	1.7	2.3	2.3	2.3	2.3	2.3	1.7	1.7	2.3	2.3
67.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	1.7	2.3	2.3	2.3
70°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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
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Scaled Data Report

TEST NUMBER: P208821
CATALOG NUMBER: LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

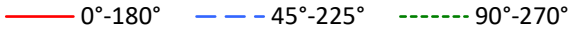
	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	81.0	80.4	79.8	79.8	75.2	72.8	69.9	69.9
5°	79.8	79.3	78.1	76.9	69.3	65.9	62.4	61.8
7.5°	77.5	75.8	74.0	72.8	63.5	59.4	55.9	55.4
10°	72.8	70.5	68.8	67.6	57.7	53.6	50.7	50.7
11°	70.5	68.2	66.4	64.7	54.8	51.3	49.0	49.0
12°	68.2	65.9	63.5	62.4	52.4	49.5	47.2	46.6
13°	65.9	62.9	61.2	59.4	50.1	47.2	45.5	45.5
14°	63.5	60.6	58.3	56.5	47.8	44.9	43.7	43.7
15°	60.0	57.1	55.4	53.6	44.9	43.1	42.0	42.5
17.5°	51.9	49.5	47.8	46.0	39.0	38.5	38.5	39.0
20°	44.3	42.0	40.2	39.0	33.8	34.4	35.0	36.1
21°	41.4	39.0	37.3	36.1	32.1	32.6	33.8	35.0
22°	38.5	36.7	35.0	33.8	30.3	30.9	32.6	33.8
23°	35.5	33.8	32.6	31.5	28.6	29.7	31.5	32.6
24°	33.2	31.5	30.3	29.1	26.8	28.0	30.3	31.5
25°	30.9	29.1	28.0	27.4	25.1	26.8	29.1	30.3
26°	28.6	27.4	26.2	25.6	23.9	25.6	28.0	29.7
27°	26.2	25.1	24.5	23.9	22.1	24.5	26.8	28.6
28°	24.5	23.3	22.7	22.1	21.0	23.3	26.2	27.4
29°	22.7	21.6	21.0	20.4	19.8	22.1	25.1	26.8
30°	*21.0*	*20.4*	*19.2*	*19.2*	*18.6*	*21.6*	*23.9*	*25.6*
31°	19.2	18.6	18.1	17.5	17.5	20.4	23.3	25.1
32°	18.1	17.5	16.9	16.3	16.9	19.2	22.1	24.5
33°	16.3	15.7	15.7	15.2	15.7	18.6	21.6	23.9
34°	14.6	14.6	14.0	14.0	15.2	18.1	21.0	22.7
35°	13.4	12.8	12.8	12.8	14.6	16.9	20.4	22.1
36°	12.2	12.2	11.7	11.7	14.0	16.3	19.8	21.6
37°	11.1	11.1	11.1	10.5	12.8	15.7	18.6	21.0
38°	9.9	9.9	9.9	9.9	12.2	15.2	18.6	21.0
39°	8.7	8.7	9.3	9.3	11.7	14.6	17.5	20.4
40°	8.2	8.2	8.2	8.2	11.1	14.0	16.9	19.8
42.5°	6.4	6.4	7.0	7.0	9.9	12.8	15.7	18.1
45°	5.2	5.2	5.8	5.8	8.7	11.7	14.0	16.9
47.5°	4.1	4.1	4.7	4.7	7.6	10.5	12.8	15.2
50°	2.9	3.5	3.5	4.1	7.0	9.3	11.1	13.4
51°	2.9	2.9	3.5	3.5	6.4	8.7	10.5	12.8
52°	2.9	2.9	3.5	3.5	5.8	8.2	9.9	11.7
53°	2.3	2.9	2.9	3.5	5.8	8.2	9.3	11.1
54°	2.3	2.3	2.9	2.9	5.8	7.6	9.3	9.9
55°	2.3	2.3	2.9	2.9	5.2	7.6	8.7	9.3
57.5°	2.3	2.3	2.3	2.3	4.7	6.4	7.6	7.6
60°	2.3	2.3	2.3	2.3	4.7	5.8	7.0	5.2

TEST NUMBER: P208821
CATALOG NUMBER: LDSQA6A15830D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	2.3	2.3	2.3	2.3	4.1	5.2	5.2	4.1
64°	2.3	2.3	2.3	2.3	4.1	5.2	5.2	4.1
65°	2.3	2.3	2.3	2.3	4.1	4.7	4.7	3.5
66°	2.3	2.3	2.3	2.3	4.1	4.7	4.7	3.5
67.5°	2.3	2.3	2.3	2.3	3.5	4.1	4.1	3.5
70°	2.3	2.3	2.3	2.3	3.5	4.1	3.5	2.9
72.5°	2.3	2.3	2.3	2.3	3.5	3.5	2.9	2.3
75°	2.3	2.3	2.3	2.3	2.9	2.9	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.9	2.9	2.3	1.7
80°	2.3	2.3	2.3	2.3	2.9	2.3	1.7	1.2
82.5°	2.3	2.3	2.3	2.3	2.3	1.7	1.2	1.2
85°	2.3	2.3	2.3	2.3	2.3	1.7	1.2	0.6
87.5°	2.3	2.3	2.3	2.3	2.3	1.7	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Report Generated By E9808895 / USPTCWHP6082093


0°-180°
45°-225°
90°-270°

61°	*2.3*	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3
62°	*1.7*	1.7	1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

61°	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.7	1.7
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	1.7	1.7

61°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
62°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

61°	2.3	2.3	2.3	2.3	4.1	5.8	6.4	4.7
62°	2.3	2.3	2.3	2.3	4.1	5.2	5.8	4.1

(END OF REPORT)