

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: P1192732

Luminaire Tested: **LDA6A70940D010TE LARH20SP 6LAL1LI 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: P1192732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A70940D010TE LARH20SP 6LAL1LI 30°
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

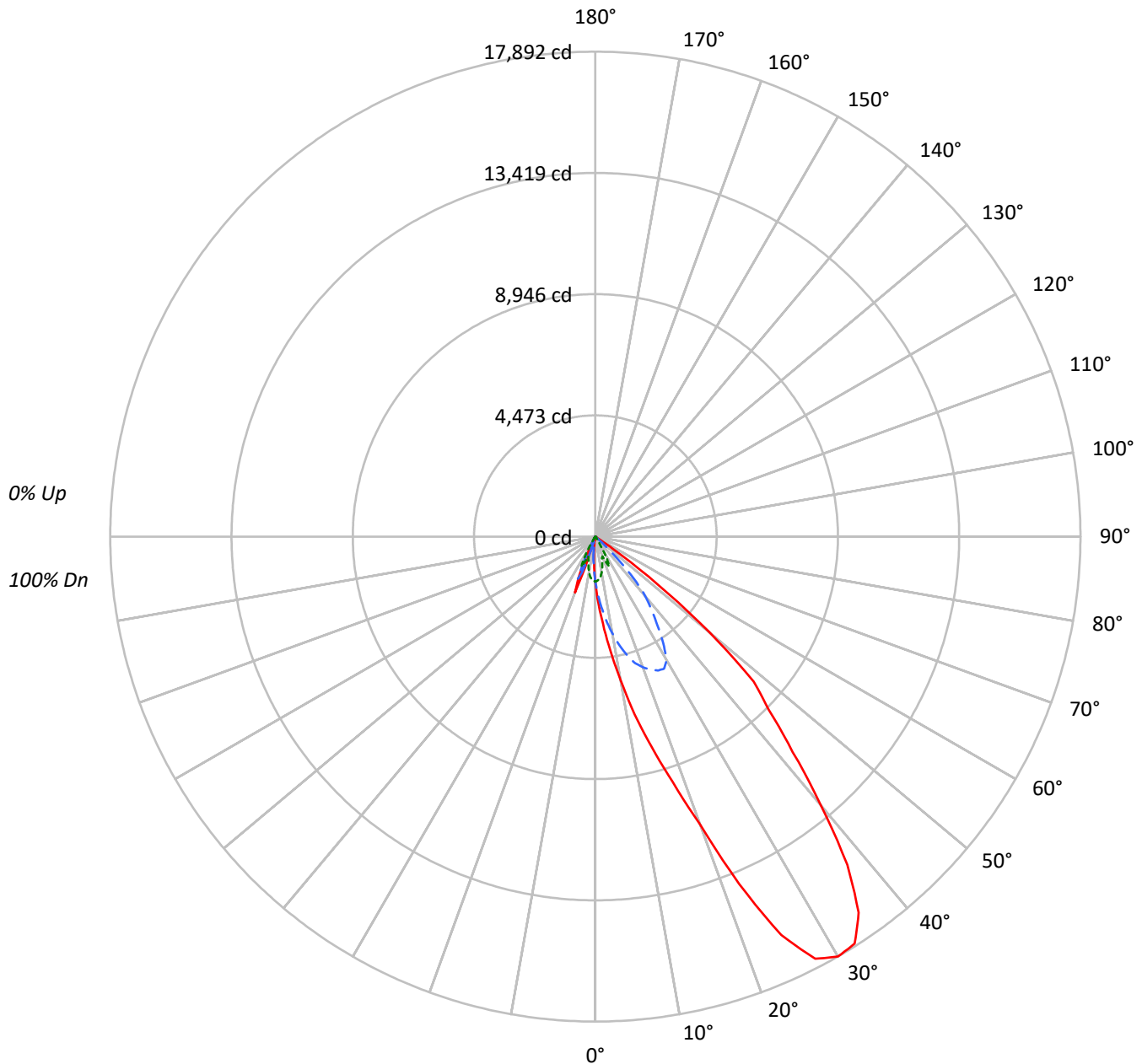
Lumens per Lamp: N/A
Luminaire Lumens: 5830.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 2.34 / 0.96 / 1.3
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78.1
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	104	102		103	101	99			99	97	96			96
2	105	100	95	91	103	98	94	90		95	91	88			92	89	86			89
3	99	91	85	80	97	90	84	80		87	82	78			84	80	77			82
4	92	83	76	71	90	82	76	71		80	74	70			77	73	69			76
5	86	76	69	64	84	75	68	63		73	67	63			71	66	62			70
6	80	70	62	57	79	69	62	57		67	61	57			66	60	56			64
7	75	64	57	51	74	63	56	51		62	56	51			60	55	51			59
8	70	59	52	47	69	58	51	46		57	51	46			56	50	46			55
9	66	54	47	42	64	54	47	42		53	46	42			52	46	42			51
10	62	50	43	38	61	50	43	38		49	43	38			48	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	90980	90980	90980
5°	177878	86479	31548
10°	299404	74258	6997
15°	455950	56232	11493
20°	658868	45551	128129
25°	980561	73686	37036
30°	1132567	25232	7318
35°	1132927	5642	3955
40°	925992	3149	2426
45°	701205	2054	1558
50°	465673	1399	1066
55°	74865	1195	841
60°	4682	1250	691
65°	1479	1621	817
70°	801	1827	1010
75°	508	2139	1334
80°	410	3189	1989
85°	818	6353	2327

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.0
10°-20°	740.7	12.7
20°-30°	1743.7	29.9
30°-40°	1837.2	31.5
40°-50°	1145.6	19.6
50°-60°	164.6	2.8
60°-70°	10.5	0.2
70°-80°	8.2	0.1
80°-90°	6.2	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°	2657.7	45.6
0°-40°	4494.9	77.1
0°-60°	5805.1	99.6
0°-90°	5830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5830.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1660	1660	1660	1660	1660	
5°	3232	2616	1572	816	573	375
15°	8034	4547	991	172	202	2392
25°	16211	5452	1218	881	612	7295
35°	16929	3993	84	78	59	10212
45°	9045	1105	26	29	20	7079
55°	783	20	12	14	9	1407
65°	11	9	12	10	6	17
75°	2	6	10	10	6	3
85°	1	6	10	8	4	1
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°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	2422.7	2406.4	2411.5	2373.6	2323.5	2346.0	2289.4	2290.7	2255.4	2166.3	2127.3
5°	3232.4	3229.8	3226.1	3156.9	3067.7	3077.8	2994.7	2963.4	2872.8	2715.6	2616.4
7.5°	4238.2	4239.4	4220.6	4052.2	3952.8	3946.5	3815.8	3721.4	3552.9	3305.3	3124.3
10°	5378.6	5413.8	5379.7	5120.7	4935.9	4938.5	4703.4	4522.4	4252.1	3891.1	3633.4
12.5°	6717.4	6722.5	6669.7	6329.0	6047.4	6025.9	5710.4	5364.7	4953.5	4482.1	4107.4
15°	8033.8	8069.0	8001.1	7581.2	7188.9	7129.8	6727.5	6271.1	5760.8	5062.9	4547.4
17.5°	9493.4	9438.2	9258.3	8657.4	8185.9	8099.2	7666.6	7069.5	6418.2	5574.7	4898.3
20°	11293.9	11312.7	10931.8	10034.1	9237.0	8898.8	8397.1	7743.4	6931.3	5950.6	5132.1
22.5°	13866.3	13764.3	12947.1	11495.1	10296.8	9845.6	9130.2	8228.7	7314.6	6236.0	5306.8
25°	16211.0	15943.1	15190.1	13192.3	11316.5	10758.3	10017.7	8642.3	7632.7	6447.1	5451.5
27.5°	17557.5	17438.0	16584.3	14569.0	12140.0	11354.1	10311.9	8946.6	7821.4	6551.5	5492.9
30°	17891.8	17913.3	17153.9	15025.4	12334.8	11437.3	10359.8	8937.8	7694.4	6365.4	5254.0
32.5°	17806.4	17690.8	16741.5	14521.3	11815.6	10998.4	9892.0	8538.0	7188.9	5810.9	4659.4
35°	16928.8	16759.2	15591.1	13210.0	10934.3	10139.6	9136.4	7882.9	6483.6	5104.5	3993.1
37.5°	15259.2	15063.1	13715.3	11635.8	9876.9	9204.3	8336.9	7153.7	5770.8	4445.6	3407.1
40°	12939.6	12695.8	11569.3	10127.1	8740.4	8270.2	7537.2	6321.4	5031.6	3822.1	2866.6
42.5°	10770.9	10653.9	9977.6	8740.4	7806.3	7352.4	6613.2	5481.7	4294.8	3184.7	2122.3
45°	9044.6	8966.7	8517.9	7732.1	6784.2	6359.1	5662.7	4558.8	3267.6	2144.9	1105.1
47.5°	7916.8	7718.3	7279.5	6454.7	5401.1	4871.8	4208.1	3003.6	1843.2	950.5	339.5
50°	5460.2	5479.1	4983.7	4074.8	3178.3	2730.7	2255.4	1381.7	609.7	207.5	59.1
52.5°	2875.3	2662.8	2314.5	1728.7	1203.1	917.9	670.1	276.7	110.6	41.6	31.5
55°	783.3	687.8	549.4	388.5	209.9	147.1	96.8	51.5	36.5	28.9	20.1
57.5°	76.6	72.9	66.6	54.1	46.6	42.7	39.0	31.5	25.2	17.5	12.5
60°	42.7	41.6	39.0	33.9	30.2	27.6	25.2	21.4	15.1	11.4	10.1
62.5°	23.9	22.6	21.4	18.8	16.4	15.1	15.1	12.5	10.1	8.8	8.8
65°	11.4	11.4	11.4	11.4	11.4	10.1	8.8	8.8	8.8	8.8	8.8
67.5°	8.8	8.8	8.8	7.5	7.5	7.5	7.5	7.5	7.5	6.3	7.5
70°	5.0	5.0	6.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.3
72.5°	2.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.3
75°	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	5.0	5.0	6.3
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	5.0	5.0	6.3
80°	1.3	1.3	1.3	2.4	2.4	2.4	2.4	3.7	5.0	5.0	6.3
82.5°	1.3	1.3	1.3	1.3	2.4	2.4	2.4	3.7	5.0	5.0	6.3
85°	1.3	1.3	1.3	1.3	2.4	2.4	2.4	3.7	3.7	5.0	6.3
87.5°	0.0	0.0	1.3	1.3	2.4	2.4	2.4	3.7	3.7	5.0	6.3
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°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	2087.1	2025.4	1963.8	1902.3	1899.7	1863.3	1809.2	1737.5	1678.4	1628.2	1579.2
5°	2517.0	2390.0	2263.1	2136.1	2098.4	2033.0	1916.1	1784.1	1670.9	1571.5	1476.1
7.5°	2948.3	2734.6	2533.4	2334.7	2255.4	2156.2	1973.9	1782.8	1619.3	1473.5	1331.4
10°	3332.9	3022.5	2739.6	2460.5	2346.0	2216.5	1971.3	1728.7	1521.2	1334.0	1153.0
12.5°	3687.5	3255.0	2896.6	2544.6	2388.7	2231.6	1932.3	1643.2	1395.5	1171.8	963.0
15°	3999.3	3468.8	3007.4	2582.4	2391.3	2202.7	1850.7	1525.1	1247.1	990.8	764.4
17.5°	4221.9	3575.6	3043.7	2548.5	2325.9	2114.7	1730.0	1381.7	1082.5	814.7	595.9
20°	4357.6	3619.6	3024.9	2485.5	2249.3	2030.4	1640.7	1302.5	1012.0	780.8	632.4
22.5°	4446.9	3662.3	3032.5	2484.4	2248.0	2041.8	1678.4	1361.6	1125.2	1000.8	983.1
25°	4542.4	3722.7	3087.7	2540.9	2320.9	2129.8	1777.8	1468.4	1271.0	1218.2	1225.9
27.5°	4537.3	3696.3	3035.0	2491.8	2260.5	2066.9	1654.5	1263.5	1078.8	930.4	876.3
30°	4267.2	3390.9	2675.5	2066.9	1794.1	1556.5	1013.3	658.7	455.1	398.6	341.9
32.5°	3634.7	2747.1	2000.3	1429.5	1122.8	838.6	398.6	211.2	179.7	150.8	137.0
35°	3022.5	2190.2	1496.1	863.8	545.7	338.2	143.4	94.3	89.3	84.3	84.3
37.5°	2498.2	1719.9	966.9	364.7	199.9	121.9	69.2	62.8	60.4	59.1	59.1
40°	1953.8	1121.5	418.7	120.6	64.1	55.4	49.0	46.6	45.3	44.0	45.3
42.5°	1153.0	451.4	121.9	45.3	42.7	40.3	36.5	35.2	35.2	33.9	35.2
45°	392.3	116.9	40.3	32.6	30.2	30.2	27.6	27.6	27.6	26.5	28.9
47.5°	101.8	36.5	26.5	23.9	22.6	22.6	21.4	21.4	21.4	21.4	22.6
50°	35.2	23.9	18.8	17.5	16.4	17.5	16.4	16.4	16.4	16.4	17.5
52.5°	21.4	16.4	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
55°	13.8	12.5	11.4	11.4	11.4	11.4	11.4	12.5	12.5	12.5	12.5
57.5°	11.4	10.1	10.1	10.1	10.1	10.1	11.4	10.1	10.1	11.4	12.5
60°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	11.4	11.4	12.5
62.5°	8.8	10.1	10.1	10.1	10.1	10.1	10.1	11.4	11.4	11.4	12.5
65°	8.8	8.8	8.8	10.1	10.1	10.1	11.4	11.4	11.4	12.5	12.5
67.5°	7.5	7.5	8.8	8.8	10.1	10.1	10.1	11.4	11.4	11.4	12.5
70°	7.5	7.5	7.5	8.8	8.8	8.8	8.8	10.1	10.1	11.4	11.4
72.5°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	10.1	10.1	10.1	11.4
75°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	8.8	10.1	10.1	11.4
77.5°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	10.1	10.1	10.1	11.4
80°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	10.1	10.1	10.1	10.1
82.5°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	10.1	10.1	10.1	10.1
85°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	8.8	10.1	10.1	10.1
87.5°	6.3	7.5	7.5	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
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°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1511.2	1489.9	1414.4	1404.3	1391.8	1330.1	1305.1	1262.2	1202.0	1184.3	1163.0
5°	1364.1	1293.7	1183.0	1153.0	1120.2	1023.4	964.3	893.8	815.9	773.2	732.9
7.5°	1176.8	1078.8	931.7	872.6	836.0	730.5	636.2	541.8	427.5	362.1	320.7
10°	968.0	833.6	680.2	612.3	563.2	409.8	320.7	279.1	240.1	208.6	181.0
12.5°	758.1	606.0	432.5	354.6	315.6	261.6	212.5	160.9	143.4	142.1	137.0
15°	555.8	385.9	291.6	262.7	235.1	168.5	167.2	167.2	172.3	176.0	177.3
17.5°	409.8	339.5	266.6	248.9	261.6	271.6	289.2	315.6	336.9	397.3	384.7
20°	600.9	595.9	650.0	719.1	768.2	872.6	1004.6	1154.1	1310.0	1483.5	1615.6
22.5°	1030.9	1156.7	1254.8	1337.7	1381.7	1499.9	1604.2	1655.8	1686.0	1670.9	1649.5
25°	1259.8	1305.1	1274.9	1246.0	1249.7	1142.9	1065.0	965.6	881.3	804.7	759.4
27.5°	753.1	688.9	598.5	535.6	523.0	451.4	398.6	343.2	326.8	276.7	255.2
30°	271.6	252.6	223.7	201.2	198.6	179.7	168.5	155.9	154.6	143.4	137.0
32.5°	123.2	123.2	113.2	115.6	113.2	109.4	108.1	104.4	104.4	100.5	98.1
35°	80.5	81.7	80.5	80.5	79.2	79.2	79.2	76.6	77.9	75.5	71.6
37.5°	59.1	60.4	57.8	59.1	59.1	59.1	59.1	57.8	56.5	54.1	52.8
40°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	44.0	44.0	42.7	40.3
42.5°	35.2	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	35.2	35.2
45°	28.9	30.2	28.9	30.2	30.2	30.2	28.9	28.9	28.9	27.6	26.5
47.5°	22.6	22.6	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	20.1
50°	17.5	17.5	17.5	17.5	17.5	17.5	18.8	17.5	17.5	17.5	17.5
52.5°	13.8	15.1	15.1	16.4	16.4	16.4	16.4	16.4	15.1	15.1	13.8
55°	12.5	13.8	13.8	15.1	15.1	15.1	15.1	13.8	13.8	13.8	12.5
57.5°	12.5	13.8	13.8	13.8	13.8	13.8	13.8	12.5	12.5	11.4	11.4
60°	12.5	12.5	12.5	13.8	13.8	12.5	12.5	11.4	11.4	10.1	10.1
62.5°	12.5	12.5	12.5	13.8	13.8	12.5	12.5	11.4	10.1	10.1	8.8
65°	12.5	13.8	12.5	13.8	13.8	12.5	12.5	11.4	10.1	10.1	8.8
67.5°	12.5	13.8	13.8	13.8	12.5	12.5	12.5	11.4	10.1	10.1	8.8
70°	11.4	12.5	12.5	12.5	12.5	12.5	11.4	11.4	10.1	10.1	8.8
72.5°	11.4	12.5	11.4	12.5	12.5	11.4	11.4	11.4	10.1	10.1	8.8
75°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	10.1	10.1	8.8	8.8
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	10.1	10.1	10.1	8.8	8.8
80°	11.4	11.4	11.4	11.4	11.4	11.4	10.1	10.1	8.8	8.8	7.5
82.5°	10.1	11.4	11.4	11.4	11.4	11.4	10.1	10.1	8.8	8.8	7.5
85°	10.1	10.1	10.1	10.1	10.1	10.1	8.8	8.8	7.5	6.3	6.3
87.5°	8.8	10.1	8.8	8.8	8.8	8.8	7.5	6.3	5.0	5.0	3.7
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: P1192732

CATALOG NUMBER: LDA6A70940D010TE LARH20SP 6LAL1LI 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1128.9	1097.6	1098.9	1103.9	1072.4	1056.0	1052.3	1035.9
5°	678.9	642.5	636.2	631.1	587.1	569.6	555.8	573.3
7.5°	291.6	277.8	275.4	271.6	251.5	241.4	236.4	241.4
10°	144.5	135.7	137.0	138.3	132.0	128.3	127.0	125.7
12.5°	143.4	142.1	143.4	143.4	144.5	142.1	143.4	143.4
15°	186.1	186.1	189.8	192.4	198.6	197.4	199.9	202.5
17.5°	463.9	440.0	452.7	452.7	509.2	458.9	501.7	462.7
20°	1823.0	1908.5	1995.3	2068.2	2142.4	2165.0	2209.0	2196.3
22.5°	1616.8	1626.9	1614.3	1600.5	1596.7	1600.5	1532.6	1542.6
25°	694.0	688.9	668.8	647.5	653.7	658.7	634.9	612.3
27.5°	237.6	231.4	225.0	220.0	217.6	213.7	206.2	201.2
30°	134.6	130.7	128.3	127.0	124.5	121.9	118.2	115.6
32.5°	96.8	94.3	93.0	91.7	89.3	86.7	83.0	81.7
35°	71.6	69.2	67.9	66.6	64.1	61.5	60.4	59.1
37.5°	52.8	50.3	50.3	50.3	46.6	44.0	42.7	41.6
40°	40.3	39.0	39.0	39.0	36.5	35.2	33.9	33.9
42.5°	35.2	33.9	33.9	33.9	31.5	30.2	30.2	28.9
45°	26.5	25.2	25.2	23.9	22.6	22.6	21.4	20.1
47.5°	20.1	18.8	18.8	18.8	17.5	16.4	16.4	15.1
50°	16.4	16.4	15.1	16.4	13.8	13.8	13.8	12.5
52.5°	13.8	13.8	12.5	12.5	11.4	11.4	11.4	10.1
55°	12.5	11.4	11.4	11.4	10.1	10.1	10.1	8.8
57.5°	10.1	10.1	8.8	8.8	7.5	7.5	7.5	7.5
60°	8.8	8.8	7.5	7.5	6.3	6.3	6.3	6.3
62.5°	8.8	7.5	7.5	7.5	6.3	6.3	6.3	6.3
65°	8.8	7.5	7.5	7.5	6.3	6.3	6.3	6.3
67.5°	8.8	7.5	7.5	7.5	6.3	6.3	6.3	6.3
70°	8.8	8.8	7.5	7.5	7.5	6.3	6.3	6.3
72.5°	8.8	8.8	7.5	7.5	7.5	7.5	6.3	6.3
75°	7.5	7.5	7.5	7.5	6.3	6.3	6.3	6.3
77.5°	7.5	7.5	7.5	7.5	6.3	6.3	6.3	6.3
80°	7.5	7.5	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	7.5	6.3	6.3	6.3	6.3	5.0	5.0	5.0
85°	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7
87.5°	3.7	2.4	2.4	2.4	1.3	1.3	1.3	1.3
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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(END OF REPORT)