

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: P1219627

Luminaire Tested: **LDSQA6A45950D010TE LARH30NF 6LSQA1H 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: P1219627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26687)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A45950D010TE LARH30NF 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 30° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

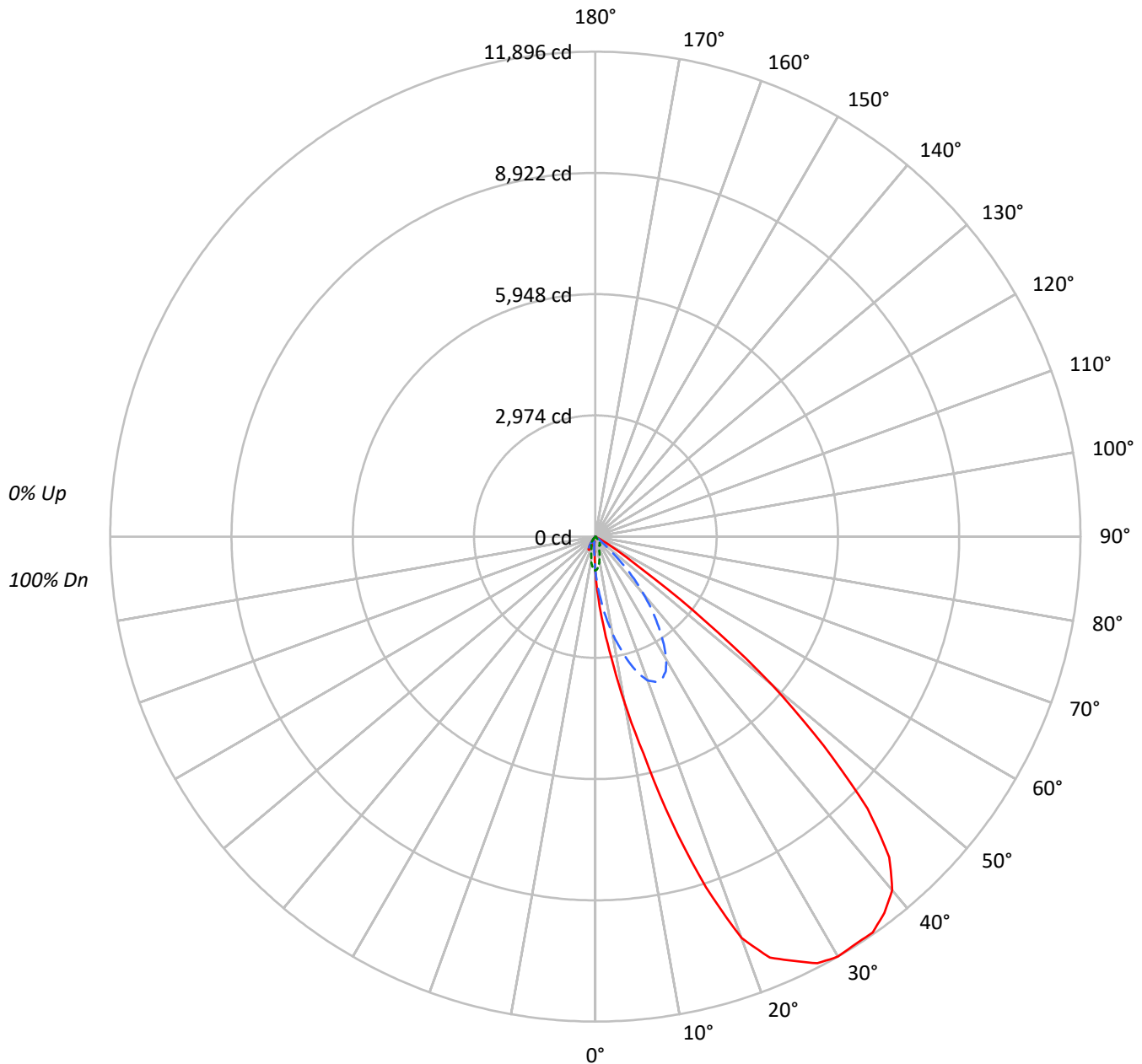
Lumens per Lamp: N/A
Luminaire Lumens: 4637.7 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 2.58 / 0.47 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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	103	110	107	104	102	103	100	98		99	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81
4	91	82	75	70	89	81	74	69	78	73	68		76	71	67		74
5	85	74	67	62	83	73	67	61	71	65	61		70	64	60		68
6	79	68	60	55	77	67	60	55	65	59	54		64	58	54		62
7	74	62	55	49	72	61	54	49	60	53	49		59	53	49		57
8	69	57	49	44	67	56	49	44	55	49	44		54	48	44		53
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36016	36016	36016
5°	92392	32769	10204
10°	180100	25183	4901
15°	323303	17108	6579
20°	479999	12980	10854
25°	545595	10699	17031
30°	591436	11693	16019
35°	622977	7574	9929
40°	636445	3367	4834
45°	574831	1285	1790
50°	378399	509	509
55°	103628	443	0
60°	20693	508	0
65°	1447	693	0
70°	214	856	0
75°	0	1264	0
80°	0	1884	198
85°	0	3754	395

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	2.2
10°-20°	544.4	11.7
20°-30°	1233.9	26.6
30°-40°	1481.1	31.9
40°-50°	1043.8	22.5
50°-60°	215.4	4.6
60°-70°	7.6	0.2
70°-80°	4.6	0.1
80°-90°	4.4	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°	1880.8	40.6
0°-40°	3361.9	72.5
0°-60°	4621.1	99.6
0°-90°	4637.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4637.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	836	836	836	836	836	
5°	2138	1558	758	315	236	263
15°	7253	3191	384	137	148	2152
25°	11485	3860	225	315	358	5300
35°	11852	2703	144	189	189	7368
45°	9440	927	21	29	29	6943
55°	1380	19	6	4	0	1819
65°	14	4	7	4	0	43
75°	0	4	8	5	0	0
85°	0	5	8	5	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°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	1425.9	1383.0	1399.8	1350.1	1339.1	1329.8	1339.1	1285.1	1254.8	1216.0	1184.9
5°	2137.7	2086.2	2098.1	2011.3	1971.5	1944.6	1939.6	1828.3	1744.7	1652.8	1557.6
7.5°	2976.0	2927.1	2920.2	2785.3	2703.5	2657.2	2637.8	2478.4	2334.2	2170.6	1991.8
10°	4119.4	4008.1	3973.5	3777.9	3621.9	3523.2	3401.8	3147.1	2894.2	2647.1	2419.4
12.5°	5450.1	5389.4	5303.5	4958.5	4685.3	4545.3	4364.0	3965.9	3583.1	3175.0	2793.8
15°	7253.1	7037.2	6890.5	6392.0	5951.8	5736.0	5471.2	4862.3	4283.9	3767.0	3190.9
17.5°	9014.7	8901.7	8672.2	8025.6	7347.5	7006.8	6612.2	5784.9	4967.8	4232.4	3529.1
20°	10476.0	10369.8	10108.4	9498.7	8746.5	8243.9	7747.3	6612.2	5544.6	4603.5	3755.1
22.5°	11176.0	11108.6	10895.2	10373.3	9732.3	9254.1	8720.3	7316.4	5971.3	4846.4	3858.0
25°	11484.6	11453.4	11316.0	10904.4	10300.7	9895.1	9390.8	7814.7	6237.0	4959.3	3859.6
27.5°	11797.4	11803.4	11499.8	11174.4	10601.8	10212.2	9726.4	8035.7	6285.0	4896.1	3733.2
30°	11896.2	11833.7	11699.7	11232.5	10688.6	10274.5	9753.4	7933.6	6087.6	4636.3	3481.1
32.5°	11855.7	11831.2	11683.7	11189.6	10541.0	10084.9	9492.9	7528.8	5698.1	4265.2	3123.5
35°	11852.4	11806.8	11468.6	11044.5	10246.0	9682.5	8902.5	6874.4	5146.5	3776.2	2702.8
37.5°	11638.1	11525.1	11271.3	10699.6	9647.1	8932.9	8058.4	6075.0	4471.9	3227.2	2285.3
40°	11323.6	11171.8	10837.9	9972.7	8610.0	7786.8	6933.5	5166.8	3757.6	2685.8	1841.7
42.5°	10666.8	10437.2	9965.1	8775.2	7227.7	6485.6	5775.7	4246.8	3064.5	2188.3	1405.8
45°	9440.5	9126.8	8488.5	7182.2	5838.9	5233.4	4662.5	3417.0	2453.2	1623.3	926.7
47.5°	7587.8	7296.8	6715.9	5717.4	4579.0	4067.1	3611.7	2541.7	1663.0	940.2	442.6
50°	5649.2	5399.6	4945.9	3973.5	3073.7	2671.6	2282.0	1443.7	779.3	447.0	183.9
52.5°	3370.6	3246.7	2844.4	2203.4	1517.9	1307.9	1050.0	611.3	393.0	161.9	49.8
55°	1380.5	1274.2	1123.3	901.5	660.3	559.9	478.9	301.9	122.3	33.8	18.6
57.5°	624.0	600.5	532.1	418.3	303.6	254.7	172.1	57.4	26.9	16.8	11.0
60°	240.3	216.7	185.5	100.4	43.0	36.3	29.4	19.3	13.5	9.3	6.8
62.5°	34.5	32.9	29.4	23.6	18.6	16.8	14.2	10.1	7.6	5.9	5.1
65°	14.2	14.2	12.7	10.1	8.4	7.6	6.8	5.1	4.2	4.2	4.2
67.5°	5.9	5.9	5.1	4.2	3.4	3.4	3.4	2.5	3.4	3.4	4.2
70°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.4	3.4	4.2
72.5°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	2.5	3.4	4.2	4.2
75°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	2.5	3.4	4.2	4.2
77.5°	0.0	0.0	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	4.2
80°	0.0	0.0	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	5.1
82.5°	0.0	0.0	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	5.1
85°	0.0	0.0	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	5.1
87.5°	0.0	0.0	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	5.1
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°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	1157.8	1103.9	1088.7	1041.5	1001.7	982.4	958.0	903.1	861.8	807.0	774.2
5°	1490.9	1388.9	1307.9	1209.2	1144.4	1102.2	1036.4	936.0	855.1	758.2	689.0
7.5°	1851.1	1664.7	1518.8	1356.1	1262.4	1189.0	1076.9	932.8	813.8	684.7	577.7
10°	2198.4	1920.3	1690.7	1457.2	1334.0	1232.0	1077.8	896.5	738.8	576.0	463.0
12.5°	2504.5	2145.3	1822.4	1522.0	1369.5	1242.2	1049.0	831.5	641.0	473.9	374.4
15°	2760.1	2319.9	1915.1	1546.6	1372.0	1220.2	989.1	738.8	532.1	383.8	313.7
17.5°	2954.0	2411.8	1943.8	1517.0	1323.1	1157.8	897.2	621.5	431.8	325.4	264.0
20°	3054.4	2429.5	1902.4	1437.0	1232.9	1063.4	776.7	504.3	366.1	283.3	220.9
22.5°	3067.1	2379.7	1803.8	1322.3	1119.0	948.7	643.4	420.8	326.4	250.4	194.8
25°	2991.9	2271.9	1663.0	1192.5	994.2	817.1	523.7	376.9	296.9	225.2	224.3
27.5°	2831.7	2086.2	1494.3	1041.5	843.3	664.6	444.4	340.6	264.8	238.6	253.9
30°	2605.7	1848.5	1286.9	850.9	658.6	511.1	374.4	280.8	232.8	235.2	247.9
32.5°	2299.6	1553.3	1043.1	623.2	471.3	384.5	280.8	191.5	193.1	194.0	205.0
35°	1915.1	1245.5	779.3	419.1	331.4	270.7	158.6	140.8	143.4	144.1	151.8
37.5°	1534.8	957.1	517.8	279.1	208.2	142.5	98.6	94.4	96.1	95.4	103.7
40°	1175.5	667.1	310.3	138.3	80.2	66.7	60.7	58.1	59.1	59.9	65.0
42.5°	832.3	361.7	153.5	52.2	42.1	38.8	36.3	34.5	35.4	35.4	38.8
45°	422.4	171.2	52.2	28.7	26.2	23.6	21.8	21.1	21.1	21.1	22.8
47.5°	182.9	56.5	24.4	17.7	16.0	15.2	13.5	12.7	12.7	12.7	13.5
50°	57.4	22.8	15.2	11.8	10.1	9.3	8.4	8.4	8.4	7.6	8.4
52.5°	21.1	14.2	10.1	7.6	6.8	6.8	6.8	5.9	6.8	5.9	6.8
55°	12.7	9.3	6.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
57.5°	8.4	6.8	5.9	5.9	5.1	5.1	5.9	5.9	5.9	5.9	5.9
60°	5.9	5.9	5.1	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9
62.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.9	5.9	5.9	6.8
65°	4.2	5.1	5.1	5.1	5.1	5.1	5.9	5.9	6.8	6.8	6.8
67.5°	4.2	5.1	5.1	5.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8
70°	5.1	5.1	5.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	7.6
72.5°	5.1	5.1	5.9	5.9	5.9	5.9	6.8	6.8	7.6	7.6	7.6
75°	5.1	5.9	5.9	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6
77.5°	5.1	5.9	5.9	6.8	6.8	6.8	6.8	7.6	7.6	7.6	7.6
80°	5.1	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6	8.4
82.5°	5.1	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6	8.4
85°	5.9	5.9	6.8	6.8	6.8	6.8	7.6	7.6	7.6	7.6	8.4
87.5°	5.9	5.9	6.8	6.8	6.8	6.8	7.6	7.6	8.4	7.6	8.4
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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Peachtree City, GA 30269



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	730.3	681.4	647.6	635.0	610.6	571.8	549.0	527.9	488.3	479.9	457.9
5°	609.6	531.3	475.7	454.6	426.7	393.8	361.7	340.6	315.3	305.2	290.1
7.5°	480.7	402.2	354.1	337.4	317.8	290.9	262.3	241.3	215.1	201.6	188.9
10°	377.8	319.6	279.1	262.3	242.0	213.3	183.9	156.0	133.2	118.9	116.4
12.5°	307.0	259.0	215.8	198.1	174.6	145.9	124.8	124.0	122.3	121.4	123.1
15°	251.4	205.0	159.4	140.0	133.2	132.4	134.9	137.5	136.6	139.0	140.8
17.5°	206.6	156.9	146.6	147.6	148.4	151.0	155.2	161.9	162.8	167.0	170.4
20°	168.7	166.1	170.4	173.7	176.3	181.3	190.5	199.1	201.6	207.5	214.1
22.5°	191.5	199.1	208.2	212.6	215.8	225.2	235.2	248.7	253.9	261.5	270.7
25°	231.0	243.8	258.0	263.1	268.2	283.3	295.2	311.2	315.3	324.7	333.9
27.5°	264.0	277.4	292.6	299.4	303.6	318.8	328.8	338.9	338.9	344.0	350.9
30°	259.0	269.8	282.5	287.6	289.3	300.1	310.3	313.7	312.0	314.6	319.6
32.5°	215.1	223.4	233.6	237.8	239.5	247.1	255.5	255.5	254.7	254.7	258.0
35°	159.4	165.3	170.4	174.6	177.1	182.2	189.8	188.9	188.9	187.2	189.8
37.5°	107.1	110.6	116.4	118.0	118.9	122.3	128.2	128.2	126.5	127.3	129.0
40°	65.0	69.2	72.6	73.3	75.1	77.6	81.8	81.8	81.8	81.8	82.7
42.5°	38.8	41.4	43.9	43.9	44.6	48.0	49.8	49.8	49.8	49.8	50.5
45°	22.8	23.6	25.3	26.2	26.2	27.8	28.7	28.7	28.7	28.7	29.4
47.5°	13.5	14.2	14.2	15.2	15.2	16.0	16.8	16.8	16.0	16.0	16.0
50°	8.4	8.4	8.4	8.4	9.3	9.3	9.3	9.3	9.3	9.3	8.4
52.5°	6.8	6.8	6.8	6.8	5.9	5.9	5.9	5.9	5.1	5.1	4.2
55°	5.9	5.9	5.9	5.9	5.9	5.1	5.1	5.1	4.2	3.4	2.5
57.5°	5.9	5.9	5.9	5.9	5.9	5.1	5.1	4.2	3.4	3.4	2.5
60°	5.9	5.9	5.9	5.9	5.9	5.1	5.1	4.2	3.4	3.4	2.5
62.5°	6.8	6.8	5.9	5.9	5.9	5.1	5.1	4.2	4.2	3.4	2.5
65°	6.8	6.8	5.9	5.9	5.9	5.9	5.1	5.1	4.2	3.4	2.5
67.5°	6.8	6.8	6.8	6.8	5.9	5.9	5.9	5.1	4.2	3.4	2.5
70°	7.6	7.6	6.8	6.8	6.8	5.9	5.9	5.1	4.2	4.2	3.4
72.5°	7.6	7.6	6.8	6.8	6.8	6.8	5.9	5.1	5.1	4.2	3.4
75°	7.6	7.6	7.6	7.6	6.8	6.8	5.9	5.9	5.1	4.2	3.4
77.5°	7.6	7.6	7.6	7.6	6.8	6.8	6.8	5.9	5.1	4.2	3.4
80°	7.6	7.6	7.6	7.6	7.6	6.8	6.8	5.9	5.1	4.2	3.4
82.5°	8.4	8.4	7.6	7.6	7.6	6.8	6.8	5.9	5.1	4.2	4.2
85°	8.4	8.4	7.6	7.6	7.6	6.8	6.8	5.9	5.1	5.1	4.2
87.5°	8.4	8.4	7.6	7.6	7.6	6.8	6.8	5.9	5.1	5.1	4.2
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: P1219627

CATALOG NUMBER: LDSQA6A45950D010TE LARH30NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	836.5	836.5	836.5	836.5	836.5	836.5	836.5	836.5
2.5°	444.4	419.1	410.7	416.6	409.8	404.8	398.0	394.6
5°	278.3	259.7	253.9	255.5	249.6	244.5	237.8	236.1
7.5°	171.2	153.5	146.6	146.6	140.0	134.1	129.9	127.3
10°	114.7	111.3	112.1	113.0	112.1	113.0	110.6	112.1
12.5°	123.1	121.4	123.1	124.0	124.0	125.6	122.3	124.8
15°	143.4	141.6	144.1	145.9	145.9	148.4	145.1	147.6
17.5°	175.3	174.6	178.8	180.4	181.3	185.5	181.3	184.7
20°	221.7	220.9	226.8	229.3	228.5	236.9	231.0	236.9
22.5°	281.7	280.0	288.4	290.9	291.8	302.7	297.6	301.9
25°	341.5	343.3	347.5	351.6	352.5	361.7	354.1	358.5
27.5°	354.1	351.6	354.1	359.2	360.0	364.3	357.6	361.0
30°	320.4	316.3	317.1	322.9	324.7	326.4	320.4	322.2
32.5°	260.6	253.9	253.9	259.7	261.5	264.0	253.9	258.0
35°	192.3	186.4	186.4	190.5	191.5	193.1	185.5	188.9
37.5°	131.5	126.5	128.2	129.9	130.7	132.4	131.5	130.7
40°	84.3	80.9	83.4	83.4	84.3	85.2	85.2	86.0
42.5°	51.5	48.9	50.5	50.5	51.5	51.5	51.5	52.2
45°	29.4	28.7	28.7	29.4	29.4	29.4	28.7	29.4
47.5°	16.0	15.2	16.0	16.0	16.0	16.0	16.0	16.0
50°	8.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6
52.5°	4.2	3.4	3.4	3.4	2.5	3.4	2.5	2.5
55°	2.5	1.7	1.7	1.7	0.8	0.8	0.0	0.0
57.5°	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0
60°	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	2.5	1.7	0.8	0.8	0.8	0.0	0.0	0.0
70°	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
72.5°	2.5	1.7	1.7	1.7	0.8	0.8	0.0	0.0
75°	2.5	1.7	1.7	1.7	0.8	0.8	0.0	0.0
77.5°	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.0
80°	3.4	2.5	1.7	1.7	1.7	0.8	0.8	0.8
82.5°	3.4	2.5	1.7	1.7	1.7	0.8	0.8	0.8
85°	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8
87.5°	3.4	2.5	2.5	1.7	1.7	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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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)