

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: P1219611

Luminaire Tested: **LDSQA6A30950D010TE LARL20NF 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: P1219611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29056)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A30950D010TE LARL20NF 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

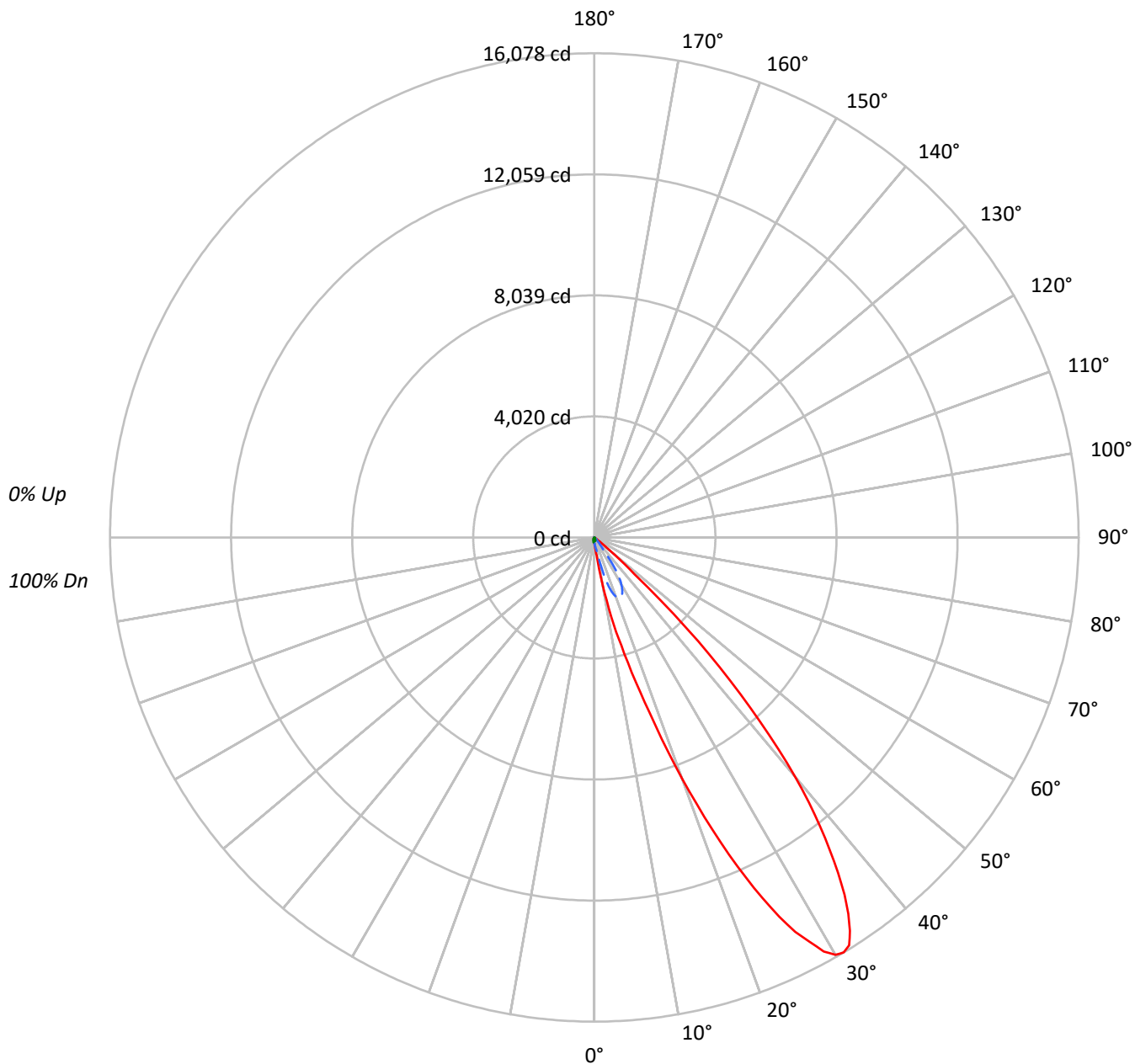
Lumens per Lamp: N/A
Luminaire Lumens: 2806.1 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8146	8146	8146
5°	16264	7896	5346
10°	73130	6912	3996
15°	191724	5652	3214
20°	390363	4284	2708
25°	628128	3169	2304
30°	795611	2242	2033
35°	761071	1472	1808
40°	583561	905	1692
45°	296796	591	1577
50°	45508	429	1373
55°	5975	405	968
60°	646	379	646
65°	102	448	550
70°	126	680	680
75°	0	898	532
80°	0	1091	521
85°	0	2174	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.9
10°-20°	277.5	9.9
20°-30°	908.5	32.4
30°-40°	1105.9	39.4
40°-50°	449.2	16.0
50°-60°	26.7	1.0
60°-70°	5.2	0.2
70°-80°	4.6	0.2
80°-90°	3.3	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°	1211.2	43.2
0°-40°	2317.1	82.6
0°-60°	2793.0	99.5
0°-90°	2806.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	189	189	189	189	189	
5°	376	287	183	136	124	71
15°	4301	1434	127	78	72	1399
25°	13222	2134	67	45	48	6076
35°	14480	852	28	27	34	8758
45°	4874	97	10	17	26	3740
55°	80	10	5	12	13	137
65°	1	3	4	8	5	2
75°	0	3	5	6	3	0
85°	0	3	4	4	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°	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2
2.5°	266.7	254.8	260.2	259.2	254.8	255.8	257.9	253.8	255.8	249.4	250.4
5°	376.3	359.0	368.8	358.0	363.4	358.0	358.0	351.5	346.2	345.1	339.8
7.5°	656.9	614.8	627.7	581.6	589.2	574.1	560.1	545.1	519.2	506.4	478.4
10°	1672.7	1554.6	1582.4	1481.5	1479.2	1443.7	1378.2	1333.1	1237.4	1169.7	1072.9
11°	2115.7	2035.1	2059.8	1949.1	1943.7	1895.3	1817.9	1697.5	1643.7	1553.3	1433.0
12°	2694.0	2558.6	2573.7	2452.2	2440.3	2375.8	2288.8	2140.4	2075.8	1966.2	1824.4
13°	3219.7	3099.3	3100.4	2968.2	2954.2	2872.6	2776.9	2597.3	2525.2	2402.7	2231.8
14°	3702.5	3611.1	3592.8	3521.9	3446.7	3350.9	3249.9	3046.7	2967.1	2829.5	2633.9
15°	4301.2	4122.9	4087.3	3998.1	3906.8	3786.2	3662.7	3430.4	3342.2	3190.7	2996.1
17.5°	6067.6	5847.1	5750.4	5568.7	5396.8	5165.6	4897.9	4486.0	4283.0	4011.0	3706.7
20°	8519.7	8172.4	7977.8	7686.5	7409.2	7030.7	6568.5	5920.3	5619.2	5092.5	4593.6
21°	9490.4	9191.6	8947.6	8619.6	8291.7	7843.5	7294.1	6608.3	6143.8	5527.9	4943.0
22°	10470.9	10187.1	9902.3	9542.0	9175.5	8652.0	8018.7	7223.2	6665.3	5946.0	5272.0
23°	11436.3	11148.2	10928.8	10435.5	10018.3	9428.1	8726.1	7816.6	7168.4	6343.9	5581.6
24°	12363.0	12048.0	11774.9	11277.2	10805.3	10148.4	9392.7	8392.8	7654.3	6723.3	5868.6
25°	13221.9	12874.7	12539.3	12027.6	11514.8	10797.7	9980.7	8914.3	8097.2	7067.3	6129.9
26°	14012.0	13538.0	13173.5	12700.5	12117.9	11365.3	10497.9	9364.7	8478.8	7354.4	6335.3
27°	14697.0	14217.4	13799.2	13293.0	12642.4	11831.9	10924.6	9688.2	8780.9	7569.3	6478.2
28°	15194.6	14789.3	14307.7	13762.6	13047.7	12153.3	11213.8	9946.4	8962.6	7681.1	6537.3
29°	15722.4	15261.3	14700.1	14080.9	13302.5	12355.5	11372.9	10080.6	9037.9	7706.9	6525.6
30°	16003.0	15578.5	14918.4	14243.2	13412.3	12420.0	11407.3	10101.1	9014.3	7644.5	6448.1
31°	16078.3	15681.6	14950.5	14246.4	13377.7	12356.6	11322.4	9995.8	8886.3	7499.5	6304.0
32°	15969.7	15573.1	14814.1	14108.8	13219.9	12179.2	11135.3	9807.6	8677.7	7282.4	6098.7
33°	15579.5	15258.0	14526.0	13847.6	12978.9	11915.7	10860.0	9501.2	8353.1	7000.7	5851.5
34°	15080.6	14780.7	14105.6	13410.1	12597.3	11554.6	10480.6	9130.4	7980.1	6654.4	5558.0
35°	14479.7	14184.0	13561.7	12870.4	12092.1	11074.0	9994.6	8664.9	7539.3	6263.2	5232.2
36°	13771.3	13463.8	12888.6	12230.8	11522.3	10493.5	9419.5	8129.5	7038.3	5837.4	4883.9
37°	12991.9	12682.3	12168.4	11558.8	10857.9	9839.9	8775.5	7539.3	6509.4	5395.6	4519.4
38°	12169.5	11881.4	11414.8	10806.3	10113.0	9113.1	8071.4	6999.6	5970.7	4948.4	4150.6
39°	11325.5	11022.4	10582.6	9984.9	9303.3	8316.6	7337.1	6379.4	5506.4	4508.8	3812.1
40°	10382.7	10096.7	9587.1	9118.5	8434.7	7495.2	6601.8	5694.4	4990.3	4086.3	3504.7
42.5°	7680.1	7456.5	7184.4	6703.9	6198.7	5524.6	4900.0	4271.2	3759.5	3246.6	2819.8
45°	4874.3	4709.7	4570.0	4271.2	4066.9	3687.4	3364.8	3043.5	2801.6	2532.8	2058.7
47.5°	1803.9	1726.5	1677.0	1545.9	1534.1	1412.6	1400.7	1555.6	1646.9	1550.2	1166.4
50°	679.4	660.1	648.2	607.4	579.5	523.5	481.6	450.4	387.0	342.9	307.4
51°	446.1	432.1	411.8	408.5	396.8	365.5	346.2	339.8	296.7	250.4	215.1
52°	283.8	275.2	262.3	263.3	256.9	237.6	231.2	240.8	218.2	192.4	166.6
53°	178.5	174.2	165.6	165.6	164.5	151.6	149.4	158.1	153.7	141.9	126.8
54°	116.1	115.0	107.5	108.6	108.6	101.1	100.0	103.2	102.1	97.8	90.3
55°	79.6	78.5	77.5	74.2	72.1	69.9	69.9	71.0	69.9	67.7	63.4
57.5°	28.0	26.9	28.0	26.9	26.9	28.0	26.9	29.0	30.1	30.1	28.0
60°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.7	10.7	10.7	10.7



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	2.1	2.1	2.1	2.1	2.1	2.1	1.0	1.0	2.1	2.1	2.1
64°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
66°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2
2.5°	247.3	248.4	244.1	242.9	241.9	236.5	233.3	230.2	226.8	221.4	223.6
5°	331.0	331.0	321.5	314.9	311.8	299.9	294.5	286.9	278.4	272.0	268.7
7.5°	462.3	454.7	433.3	417.0	407.5	383.9	369.8	349.3	337.5	324.7	317.2
10°	980.5	930.0	824.5	749.3	678.3	592.3	513.9	452.6	412.9	383.9	365.5
11°	1321.3	1254.6	1120.2	1016.0	923.5	800.9	680.6	565.6	482.7	432.1	394.5
12°	1695.3	1609.3	1448.1	1319.0	1206.2	1052.5	898.7	747.2	627.7	533.2	455.8
13°	2084.5	1973.7	1786.8	1638.3	1508.2	1330.9	1148.2	966.5	821.4	692.3	575.1
14°	2470.4	2335.0	2129.7	1958.7	1812.5	1614.7	1407.2	1205.2	1035.2	873.0	729.9
15°	2821.0	2672.5	2491.9	2268.3	2110.3	1856.6	1660.9	1434.1	1240.5	1052.5	885.9
17.5°	3449.8	3249.9	3036.9	2805.9	2655.3	2404.8	2156.4	1882.4	1648.0	1414.7	1191.2
20°	4141.1	3784.1	3433.7	3089.7	2871.4	2604.8	2361.9	2090.9	1843.6	1579.2	1336.3
21°	4413.0	4004.5	3577.8	3191.9	2944.6	2659.6	2408.1	2127.4	1867.4	1585.7	1329.8
22°	4671.1	4183.0	3703.5	3277.8	3007.9	2716.6	2445.7	2151.2	1873.8	1578.2	1310.5
23°	4906.5	4354.9	3819.6	3353.1	3054.3	2744.6	2465.1	2160.8	1870.5	1560.9	1281.5
24°	5120.4	4513.0	3918.5	3408.9	3082.2	2753.2	2462.8	2153.3	1854.4	1535.1	1241.8
25°	5305.4	4637.7	3990.5	3439.1	3089.7	2748.9	2452.2	2134.0	1822.2	1491.0	1195.4
26°	5445.0	4717.2	4024.9	3443.3	3078.9	2734.9	2427.5	2098.4	1771.6	1432.0	1133.1
27°	5525.6	4746.2	4024.9	3425.1	3057.4	2709.1	2387.6	2043.7	1706.0	1358.9	1055.7
28°	5539.7	4733.4	3995.9	3387.4	3016.6	2664.0	2329.6	1973.7	1628.7	1271.8	970.7
29°	5503.2	4681.8	3933.6	3323.0	2956.3	2605.9	2254.4	1885.6	1536.2	1176.1	882.5
30°	5412.9	4587.1	3841.1	3241.2	2884.3	2529.6	2159.8	1787.9	1432.0	1077.2	781.5
31°	5272.0	4450.7	3722.9	3142.4	2795.1	2438.2	2055.5	1674.9	1314.8	954.6	671.8
32°	5085.0	4259.3	3591.7	3029.4	2696.1	2334.0	1925.5	1530.8	1159.9	805.3	545.1
33°	4864.5	4072.3	3445.4	2908.0	2588.8	2191.0	1745.8	1315.9	970.7	638.6	412.9
34°	4613.0	3871.2	3288.6	2780.0	2447.8	1981.3	1522.2	1094.4	763.3	466.5	291.3
35°	4334.6	3657.4	3124.1	2629.5	2225.4	1725.5	1266.4	852.5	552.6	316.1	219.3
36°	4037.9	3417.6	2935.9	2414.6	1958.7	1438.4	995.5	613.8	366.5	235.4	189.2
37°	3758.2	3209.0	2741.4	2144.7	1657.8	1138.4	726.8	409.6	267.7	205.3	167.8
38°	3494.9	3007.9	2487.7	1845.9	1348.0	853.5	478.4	302.1	232.2	180.6	148.3
39°	3248.8	2805.9	2191.0	1525.6	1038.5	602.1	347.3	259.2	202.2	160.2	131.1
40°	3011.2	2516.7	1867.4	1243.8	756.8	420.4	292.3	228.9	178.5	140.8	110.7
42.5°	2258.6	1616.9	1034.2	566.6	355.9	274.1	208.6	161.2	118.2	87.0	66.7
45°	1418.0	822.4	444.0	318.2	248.4	186.1	135.5	96.7	71.0	52.6	41.9
47.5°	645.1	353.7	275.2	212.8	160.2	110.7	79.6	58.0	43.1	33.4	24.6
50°	236.5	201.0	163.4	121.5	88.1	63.4	46.2	34.4	25.9	19.3	13.9
51°	184.8	161.2	130.1	91.4	69.9	51.6	37.6	28.0	20.5	15.1	10.7
52°	145.2	128.0	100.0	71.0	54.9	40.9	30.1	21.5	15.1	11.9	8.5
53°	111.8	97.8	75.2	54.9	43.1	32.2	23.6	17.2	11.9	8.5	6.4
54°	82.8	72.1	56.0	41.9	33.4	24.6	17.2	12.9	8.5	6.4	5.4
55°	59.1	52.6	41.9	33.4	25.9	19.3	12.9	9.7	6.4	4.4	4.4
57.5°	24.6	23.6	19.3	16.1	12.9	9.7	6.4	4.4	4.4	3.2	4.4
60°	9.7	9.7	8.5	6.4	5.4	4.4	3.2	3.2	3.2	3.2	3.2



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CATALOG NUMBER: LDSQA6A30950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.4
64°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	4.4
65°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	4.4
66°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	4.4
67.5°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.4	4.4
70°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.4	4.4
72.5°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4	4.4	4.4
75°	1.0	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4	4.4	4.4
77.5°	1.0	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.4	4.4	4.4
80°	1.0	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4	4.4	4.4
82.5°	1.0	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4	4.4	4.4
85°	1.0	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4	4.4	4.4
87.5°	1.0	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4	4.4	4.4
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: P1219611

CATALOG NUMBER: LDSQA6A30950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2
2.5°	220.4	220.4	212.8	210.7	209.7	207.6	202.2	202.2	198.8	194.6	192.4
5°	261.2	259.2	247.3	240.8	235.4	228.9	218.2	213.9	207.6	201.0	195.6
7.5°	301.0	293.5	275.2	265.5	257.9	247.3	233.3	223.6	212.8	202.2	194.6
10°	340.8	325.7	299.9	283.8	269.8	254.8	237.6	226.8	212.8	198.8	188.1
11°	356.9	337.5	308.5	288.2	272.0	254.8	237.6	223.6	210.7	196.8	184.8
12°	388.0	351.5	317.2	294.5	274.1	254.8	235.4	220.4	206.3	192.4	180.6
13°	451.5	383.9	326.9	299.9	277.4	254.8	233.3	217.2	202.2	188.1	175.2
14°	566.6	450.4	352.6	305.3	278.4	254.8	231.2	211.7	196.8	181.7	169.8
15°	696.7	552.6	405.3	324.7	279.4	252.7	226.8	206.3	190.2	175.2	163.4
17.5°	966.5	772.9	574.1	421.4	306.4	246.2	210.7	190.2	172.0	157.0	143.0
20°	1076.1	851.4	627.7	451.5	317.2	235.4	192.4	170.9	151.6	136.6	124.7
21°	1062.2	836.4	611.7	431.1	296.7	220.4	182.7	162.3	144.0	128.0	117.2
22°	1033.1	800.9	574.1	393.4	272.0	205.3	174.2	152.7	135.5	120.4	109.6
23°	994.4	750.4	531.0	353.7	246.2	191.4	165.6	144.0	128.0	112.9	103.2
24°	946.0	699.8	481.6	313.9	221.4	180.6	155.8	135.5	119.3	106.5	96.7
25°	892.3	647.2	428.9	280.6	206.3	169.8	145.2	125.7	111.8	100.0	90.3
26°	826.8	584.8	379.5	249.4	188.1	158.1	134.4	117.2	104.2	93.5	83.9
27°	751.4	520.3	324.7	217.2	173.1	146.2	124.7	109.6	97.8	87.0	77.5
28°	683.7	448.3	278.4	193.5	161.2	134.4	116.1	102.1	91.4	80.6	72.1
29°	598.7	379.5	237.6	175.2	148.3	125.7	107.5	94.6	83.9	73.1	65.6
30°	513.9	313.9	203.2	160.2	135.5	115.0	98.9	87.0	76.2	67.7	61.3
31°	425.7	260.2	178.5	147.3	123.7	106.5	91.4	80.6	69.9	62.4	56.0
32°	325.7	212.8	159.1	133.2	112.9	95.7	83.9	73.1	63.4	57.0	50.5
33°	245.1	179.6	144.0	120.4	102.1	88.1	76.2	65.6	58.0	51.6	46.2
34°	195.6	160.2	130.1	108.6	92.5	79.6	67.7	59.1	51.6	46.2	40.9
35°	172.0	144.0	116.1	97.8	82.8	69.9	60.2	52.6	46.2	40.9	36.5
36°	152.7	129.1	103.2	87.0	72.1	61.3	52.6	46.2	39.7	35.5	32.2
37°	136.6	114.0	91.4	75.2	62.4	53.7	46.2	39.7	34.4	31.1	29.0
38°	122.6	97.8	77.5	64.5	53.7	46.2	39.7	34.4	30.1	26.9	24.6
39°	104.2	82.8	64.5	54.9	45.1	38.7	33.4	30.1	25.9	23.6	21.5
40°	87.0	68.7	53.7	45.1	38.7	32.2	29.0	24.6	22.6	20.5	18.3
42.5°	53.7	43.1	34.4	29.0	24.6	21.5	19.3	17.2	15.1	13.9	12.9
45°	33.4	26.9	21.5	18.3	15.1	13.9	12.9	10.7	10.7	9.7	9.7
47.5°	19.3	16.1	11.9	10.7	8.5	8.5	7.5	7.5	6.4	7.5	6.4
50°	10.7	7.5	6.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
51°	8.5	6.4	5.4	4.4	4.4	4.4	4.4	4.4	4.4	5.4	5.4
52°	6.4	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
53°	5.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
54°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
55°	4.4	4.4	4.4	4.4	4.4	3.2	4.4	4.4	4.4	4.4	4.4
57.5°	4.4	4.4	3.2	3.2	4.4	3.2	4.4	4.4	4.4	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



TEST NUMBER: P1219611

CATALOG NUMBER: LDSQA6A30950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
64°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
66°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	5.4	5.4	5.4	5.4	4.4	4.4	4.4	4.4
72.5°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.4
75°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
80°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
82.5°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
85°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
87.5°	4.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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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Peachtree City, GA 30269



TEST NUMBER: P1219611

CATALOG NUMBER: LDSQA6A30950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	189.2	189.2	189.2	189.2	189.2	189.2	189.2	189.2
2.5°	191.4	191.4	190.2	188.1	172.0	158.1	149.4	148.3
5°	192.4	190.2	186.1	182.7	153.7	135.5	124.7	123.7
7.5°	188.1	183.8	178.5	172.0	136.6	117.2	107.5	105.2
10°	180.6	173.1	166.6	158.1	120.4	102.1	93.5	91.4
11°	175.2	167.8	161.2	152.7	114.0	96.7	88.1	87.0
12°	170.9	162.3	153.7	146.2	107.5	91.4	83.9	82.8
13°	164.5	155.8	148.3	139.8	102.1	87.0	79.6	78.5
14°	159.1	149.4	141.9	134.4	96.7	81.6	76.2	75.2
15°	152.7	143.0	134.4	126.8	91.4	77.5	73.1	72.1
17.5°	135.5	124.7	117.2	109.6	78.5	67.7	64.5	65.6
20°	115.0	106.5	100.0	93.5	66.7	59.1	58.0	59.1
21°	107.5	100.0	94.6	88.1	62.4	56.0	56.0	57.0
22°	101.1	93.5	88.1	81.6	59.1	52.6	52.6	54.9
23°	94.6	87.0	81.6	76.2	54.9	50.5	50.5	52.6
24°	88.1	81.6	76.2	71.0	51.6	47.2	48.5	50.5
25°	81.6	76.2	71.0	66.7	48.5	45.1	46.2	48.5
26°	77.5	71.0	66.7	61.3	45.1	43.1	44.1	47.2
27°	71.0	65.6	61.3	57.0	43.1	40.9	43.1	45.1
28°	66.7	61.3	57.0	52.6	39.7	38.7	40.9	44.1
29°	61.3	57.0	52.6	49.5	37.6	36.5	39.7	41.9
30°	56.0	51.6	48.5	45.1	35.5	34.4	37.6	40.9
31°	51.6	48.5	45.1	41.9	33.4	33.4	36.5	39.7
32°	47.2	44.1	40.9	37.6	31.1	31.1	35.5	37.6
33°	43.1	39.7	36.5	34.4	29.0	30.1	33.4	36.5
34°	37.6	35.5	33.4	31.1	26.9	28.0	32.2	35.5
35°	34.4	32.2	30.1	28.0	25.9	26.9	31.1	34.4
36°	30.1	29.0	26.9	25.9	23.6	25.9	30.1	33.4
37°	26.9	25.9	23.6	22.6	22.6	24.6	29.0	32.2
38°	23.6	22.6	21.5	20.5	21.5	23.6	28.0	31.1
39°	20.5	19.3	19.3	18.3	20.5	22.6	26.9	30.1
40°	18.3	17.2	17.2	16.1	19.3	21.5	25.9	30.1
42.5°	12.9	12.9	12.9	12.9	16.1	19.3	23.6	28.0
45°	9.7	9.7	9.7	9.7	13.9	17.2	20.5	25.9
47.5°	7.5	7.5	7.5	7.5	12.9	16.1	19.3	22.6
50°	5.4	5.4	6.4	6.4	11.9	13.9	17.2	20.5
51°	5.4	5.4	5.4	6.4	10.7	13.9	16.1	19.3
52°	5.4	5.4	5.4	5.4	10.7	12.9	15.1	17.2
53°	4.4	5.4	5.4	5.4	9.7	12.9	13.9	16.1
54°	4.4	4.4	4.4	5.4	9.7	11.9	12.9	15.1
55°	4.4	4.4	4.4	5.4	8.5	11.9	12.9	12.9
57.5°	4.4	4.4	4.4	4.4	8.5	10.7	11.9	10.7
60°	4.4	4.4	4.4	4.4	7.5	9.7	10.7	7.5



TEST NUMBER: P1219611

CATALOG NUMBER: LDSQA6A30950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	4.4	4.4	4.4	4.4	7.5	8.5	8.5	6.4
64°	4.4	4.4	4.4	4.4	7.5	8.5	8.5	6.4
65°	4.4	4.4	4.4	4.4	7.5	7.5	7.5	5.4
66°	4.4	4.4	4.4	4.4	7.5	7.5	7.5	5.4
67.5°	4.4	4.4	4.4	4.4	7.5	7.5	6.4	5.4
70°	4.4	4.4	4.4	5.4	6.4	6.4	6.4	5.4
72.5°	4.4	4.4	4.4	5.4	6.4	6.4	5.4	4.4
75°	5.4	5.4	5.4	5.4	6.4	6.4	5.4	3.2
77.5°	5.4	5.4	5.4	5.4	6.4	5.4	4.4	3.2
80°	5.4	5.4	4.4	4.4	5.4	5.4	3.2	2.1
82.5°	5.4	5.4	4.4	4.4	5.4	4.4	3.2	2.1
85°	5.4	5.4	4.4	4.4	5.4	4.4	2.1	1.0
87.5°	5.4	4.4	4.4	4.4	5.4	4.4	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





61°	3.2	3.2	3.2	3.2	4.4	3.2	4.4	5.4	6.4	6.4	6.4
62°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.4

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Scaled Data Report





61°	6.4	6.4	5.4	5.4	4.4	3.2	3.2	3.2	3.2	3.2	3.2
62°	4.4	4.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.4

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Scaled Data Report





61°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
62°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4

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Scaled Data Report



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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



61°	4.4	4.4	4.4	4.4	7.5	9.7	9.7	7.5
62°	4.4	4.4	4.4	4.4	7.5	8.5	9.7	6.4

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)