

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: P1219617

Luminaire Tested: **LDSQA6A35950D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219617
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: LDSQA6A35950D010TE 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

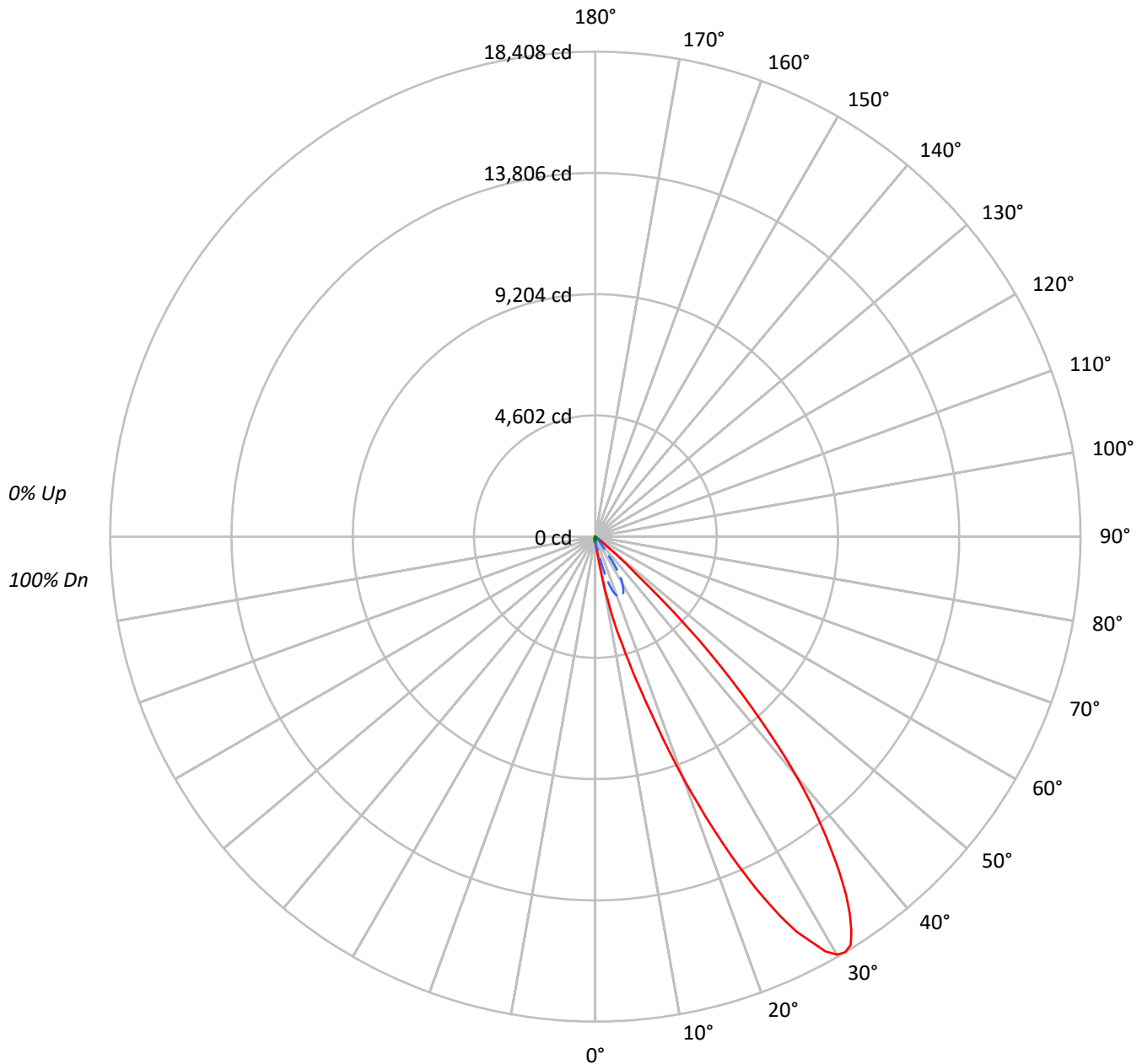
Lumens per Lamp: N/A
Luminaire Lumens: 3212.7 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	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°	9326	9326	9326
5°	18619	9042	6116
10°	83737	7918	4573
15°	219507	6477	3682
20°	446931	4907	3107
25°	719151	3625	2632
30°	910904	2570	2327
35°	871360	1682	2066
40°	668133	1040	1933
45°	339802	670	1796
50°	52099	489	1567
55°	6846	458	1111
60°	741	422	741
65°	143	499	621
70°	176	768	768
75°	0	1015	616
80°	0	1215	595
85°	0	2421	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.9
10°-20°	317.7	9.9
20°-30°	1040.1	32.4
30°-40°	1266.1	39.4
40°-50°	514.3	16.0
50°-60°	30.6	1.0
60°-70°	5.9	0.2
70°-80°	5.2	0.2
80°-90°	3.8	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°	1386.8	43.2
0°-40°	2652.9	82.6
0°-60°	3197.7	99.5
0°-90°	3212.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	217	217	217	217	217	
5°	431	329	209	155	142	81
15°	4924	1642	145	88	83	1602
25°	15138	2443	76	52	55	6957
35°	16578	976	32	31	39	10027
45°	5581	111	11	20	30	4281
55°	91	11	6	14	15	157
65°	1	4	5	9	6	2
75°	0	4	6	7	4	1
85°	0	4	5	5	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°	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6
2.5°	305.3	291.6	297.9	296.7	291.6	293.0	295.4	290.6	293.0	285.5	286.8
5°	430.8	411.1	422.1	409.8	416.0	409.8	409.8	402.5	396.3	395.2	389.0
7.5°	752.0	704.1	718.8	665.9	674.4	657.3	641.4	623.9	594.6	579.8	547.8
10°	1915.3	1779.8	1811.7	1696.0	1693.6	1653.0	1577.9	1526.2	1416.7	1339.2	1228.4
11°	2422.2	2329.9	2358.3	2231.4	2225.3	2170.1	2081.2	1943.6	1881.9	1778.6	1640.6
12°	3084.5	2929.3	2946.5	2807.5	2794.0	2720.2	2620.4	2450.7	2376.7	2251.3	2088.7
13°	3686.4	3548.6	3549.7	3398.2	3382.3	3288.7	3179.2	2973.7	2891.3	2750.9	2555.3
14°	4238.9	4134.3	4113.3	4032.1	3946.0	3836.5	3720.8	3488.1	3397.2	3239.5	3015.6
15°	4924.5	4720.2	4679.6	4577.5	4472.7	4335.0	4193.5	3927.7	3826.6	3653.0	3430.2
17.5°	6946.8	6694.5	6583.6	6375.6	6178.7	5914.2	5607.6	5136.2	4903.7	4592.2	4243.8
20°	9754.3	9356.8	9134.0	8800.5	8482.8	8049.6	7520.3	6778.1	6433.5	5830.3	5259.4
21°	10865.6	10523.7	10244.1	9868.8	9493.3	8980.2	8351.2	7565.9	7034.2	6328.8	5659.5
22°	11988.3	11663.3	11337.2	10924.8	10505.1	9905.7	9180.7	8270.0	7631.2	6807.7	6035.8
23°	13093.5	12763.7	12512.7	11947.6	11470.2	10794.4	9990.7	8949.3	8207.3	7263.2	6390.5
24°	14154.6	13793.8	13481.2	12911.4	12371.1	11619.0	10753.7	9609.0	8763.4	7697.7	6719.1
25°	15137.9	14740.3	14356.4	13770.4	13183.4	12362.5	11427.1	10205.9	9270.6	8091.5	7018.1
26°	16042.6	15499.7	15082.5	14541.0	13873.9	13012.3	12019.0	10721.7	9707.5	8420.0	7253.3
27°	16826.7	16277.6	15799.0	15219.2	14474.5	13546.5	12507.6	11092.1	10053.4	8666.2	7417.1
28°	17396.5	16932.4	16381.1	15757.0	14938.6	13914.6	12838.7	11387.6	10261.4	8794.2	7484.7
29°	18000.7	17472.8	16830.4	16121.2	15230.2	14146.0	13020.9	11541.4	10347.5	8823.9	7471.2
30°	18322.0	17835.9	17080.1	16307.2	15355.8	14219.7	13060.4	11564.8	10320.5	8752.3	7382.4
31°	18408.3	17953.9	17117.2	16310.9	15316.3	14147.1	12963.1	11444.3	10173.9	8586.3	7217.5
32°	18284.0	17829.7	16960.7	16153.3	15135.5	13944.0	12748.8	11228.8	9935.2	8337.7	6982.6
33°	17837.1	17469.1	16630.8	15854.4	14859.7	13642.4	12433.8	10878.0	9563.5	8015.2	6699.4
34°	17266.0	16922.7	16149.7	15353.4	14422.8	13228.9	11999.3	10453.5	9136.5	7618.8	6363.3
35°	16578.0	16239.6	15526.9	14735.4	13844.4	12678.6	11443.0	9920.5	8631.8	7170.9	5990.4
36°	15766.9	15414.8	14756.5	14003.1	13192.0	12014.1	10784.6	9307.6	8058.2	6683.5	5591.7
37°	14874.5	14520.0	13931.8	13233.9	12431.4	11265.7	10047.2	8631.8	7452.6	6177.6	5174.4
38°	13932.9	13603.1	13069.0	12372.3	11578.3	10433.8	9241.1	8013.8	6836.0	5665.4	4752.3
39°	12966.8	12619.7	12116.3	11431.9	10651.5	9521.7	8400.4	7303.8	6304.4	5162.0	4364.6
40°	11887.4	11560.0	10976.5	10439.9	9657.1	8581.2	7558.6	6519.7	5713.6	4678.3	4012.4
42.5°	8793.0	8537.0	8225.6	7675.4	7097.0	6325.3	5610.2	4890.1	4304.2	3717.1	3228.5
45°	5580.6	5392.3	5232.2	4890.1	4656.2	4221.8	3852.6	3484.5	3207.5	2899.9	2357.1
47.5°	2065.3	1976.6	1920.2	1770.0	1756.4	1617.2	1603.8	1781.0	1885.6	1774.9	1335.5
50°	777.8	755.8	742.2	695.4	663.4	599.5	551.5	515.7	443.1	392.6	351.9
51°	510.8	494.7	471.3	467.6	454.2	418.4	396.3	389.0	339.8	286.8	246.2
52°	325.0	315.0	300.2	301.6	294.1	272.0	264.7	275.7	249.9	220.4	190.7
53°	204.3	199.4	189.6	189.6	188.3	173.6	171.1	181.1	176.0	162.4	145.3
54°	132.9	131.8	123.0	124.3	124.3	115.6	114.4	118.1	117.0	111.9	103.4
55°	91.2	89.9	88.5	85.0	82.6	80.0	80.0	81.2	80.0	77.5	72.6
57.5°	32.0	30.7	32.0	30.7	30.7	32.0	30.7	33.3	34.4	34.4	32.0
60°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	11.0	12.4	12.4	12.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	2.4	2.4	2.4	2.4	2.4	2.4	1.4	1.4	2.4	2.4	2.4
64°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4
66°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6
2.5°	283.1	284.3	279.4	278.2	276.8	270.7	267.2	263.4	259.7	253.4	256.0
5°	379.1	379.1	368.1	360.6	357.0	343.3	337.4	328.7	318.8	311.3	307.7
7.5°	529.3	520.6	496.1	477.6	466.5	439.4	423.5	400.1	386.6	371.8	363.2
10°	1122.5	1064.6	944.0	857.9	776.7	678.2	588.3	518.1	472.7	439.4	418.4
11°	1512.8	1436.3	1282.5	1163.0	1057.3	916.9	779.2	647.3	552.7	494.7	451.7
12°	1941.1	1842.6	1657.9	1510.2	1381.0	1205.0	1029.1	855.5	718.8	610.5	521.9
13°	2386.6	2259.9	2045.7	1875.7	1726.9	1523.8	1314.6	1106.6	940.3	792.6	658.5
14°	2828.4	2673.4	2438.3	2242.7	2075.1	1848.8	1611.3	1379.7	1185.4	999.4	835.6
15°	3229.7	3059.8	2853.1	2597.0	2416.2	2125.7	1901.5	1642.0	1420.3	1205.0	1014.2
17.5°	3949.7	3720.8	3477.0	3212.6	3040.1	2753.3	2469.0	2155.2	1886.8	1619.8	1363.8
20°	4741.3	4332.5	3931.2	3537.4	3287.6	2982.3	2704.1	2393.9	2110.9	1808.1	1529.9
21°	5052.5	4584.9	4096.1	3654.4	3371.3	3045.0	2757.0	2435.9	2138.0	1815.4	1522.5
22°	5347.9	4789.1	4240.3	3752.8	3444.0	3110.3	2800.1	2462.8	2145.3	1806.9	1500.4
23°	5617.5	4986.1	4373.2	3839.0	3496.7	3142.4	2822.2	2474.1	2141.6	1787.2	1467.1
24°	5862.4	5167.1	4486.5	3902.9	3528.7	3152.0	2819.8	2465.4	2123.3	1757.6	1421.6
25°	6074.1	5309.7	4568.8	3937.3	3537.4	3147.2	2807.5	2443.2	2086.3	1707.1	1368.6
26°	6234.2	5400.9	4608.3	3942.2	3525.2	3131.3	2779.2	2402.5	2028.3	1639.5	1297.3
27°	6326.4	5434.0	4608.3	3921.4	3500.4	3101.7	2733.6	2339.8	1953.2	1555.8	1208.8
28°	6342.5	5419.2	4575.0	3878.4	3453.6	3050.0	2667.2	2259.9	1864.7	1456.0	1111.4
29°	6300.6	5360.3	4503.6	3804.4	3384.8	2983.6	2581.1	2158.8	1759.0	1346.5	1010.5
30°	6197.3	5251.9	4397.7	3710.8	3302.4	2896.2	2472.7	2046.8	1639.5	1233.2	894.8
31°	6035.8	5095.6	4262.3	3597.8	3200.2	2791.6	2353.3	1917.7	1505.3	1093.0	769.2
32°	5821.7	4876.6	4112.3	3468.4	3086.9	2672.1	2204.5	1752.7	1328.0	922.0	623.9
33°	5569.6	4662.4	3944.8	3329.4	2963.8	2508.5	1998.9	1506.5	1111.4	731.2	472.7
34°	5281.4	4432.2	3765.1	3182.9	2802.6	2268.4	1742.8	1252.9	873.8	534.2	333.6
35°	4962.7	4187.2	3576.9	3010.6	2547.8	1975.5	1449.9	976.0	632.7	361.8	251.1
36°	4622.9	3912.9	3361.4	2764.4	2242.7	1646.8	1139.6	702.7	419.7	269.6	216.6
37°	4303.0	3674.0	3138.6	2455.5	1898.0	1303.4	832.1	468.9	306.5	235.1	192.1
38°	4001.4	3444.0	2848.0	2113.3	1543.5	977.2	547.8	345.9	265.8	206.9	169.8
39°	3719.5	3212.6	2508.5	1746.6	1188.9	689.3	397.6	296.7	231.4	183.5	150.2
40°	3447.5	2881.4	2138.0	1424.1	866.5	481.3	334.7	262.1	204.3	161.2	126.8
42.5°	2586.0	1851.2	1184.0	648.6	407.4	314.0	238.9	184.6	135.3	99.7	76.3
45°	1623.4	941.6	508.2	364.3	284.3	212.9	155.0	110.9	81.2	60.3	47.9
47.5°	738.5	404.9	315.0	243.8	183.5	126.8	91.2	66.5	49.2	38.2	28.3
50°	270.7	230.3	187.0	139.0	100.9	72.6	52.9	39.3	29.5	22.0	15.9
51°	211.7	184.6	149.0	104.6	80.0	59.2	43.1	32.0	23.4	17.3	12.4
52°	166.2	146.4	114.4	81.2	62.7	46.8	34.4	24.5	17.3	13.5	9.9
53°	128.0	111.9	86.1	62.7	49.2	36.9	27.1	19.7	13.5	9.9	7.3
54°	94.7	82.6	64.1	47.9	38.2	28.3	19.7	14.8	9.9	7.3	6.1
55°	67.8	60.3	47.9	38.2	29.5	22.0	14.8	11.0	7.3	4.9	4.9
57.5°	28.3	27.1	22.0	18.5	14.8	11.0	7.3	4.9	4.9	3.7	4.9
60°	11.0	11.0	9.9	7.3	6.1	4.9	3.7	3.7	3.7	3.7	3.7



TEST NUMBER: P1219617

CATALOG NUMBER: LDSQA6A35950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	2.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9
64°	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	3.7	3.7	4.9
65°	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	3.7	4.9
66°	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	3.7	4.9
67.5°	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	4.9	4.9
70°	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	4.9	4.9
72.5°	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	4.9	4.9
75°	1.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	4.9	4.9
77.5°	1.4	2.4	2.4	2.4	3.7	3.7	3.7	3.7	4.9	4.9	4.9
80°	1.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	4.9	4.9
82.5°	1.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	4.9	4.9
85°	1.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	4.9	4.9
87.5°	1.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	4.9	4.9
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: P1219617

CATALOG NUMBER: LDSQA6A35950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6
2.5°	252.3	252.3	243.8	241.3	240.0	237.5	231.4	231.4	227.7	222.8	220.4
5°	299.1	296.7	283.1	275.7	269.6	262.1	249.9	244.8	237.5	230.3	224.1
7.5°	344.7	336.0	315.0	304.0	295.4	283.1	267.2	256.0	243.8	231.4	222.8
10°	390.1	372.9	343.3	325.0	308.9	291.6	272.0	259.7	243.8	227.7	215.5
11°	408.6	386.6	353.3	329.9	311.3	291.6	272.0	256.0	241.3	225.2	211.7
12°	444.4	402.5	363.2	337.4	314.0	291.6	269.6	252.3	236.3	220.4	206.9
13°	516.9	439.4	374.2	343.3	317.5	291.6	267.2	248.6	231.4	215.5	200.7
14°	648.6	515.7	403.8	349.5	318.8	291.6	264.7	242.4	225.2	208.0	194.5
15°	797.7	632.7	464.0	371.8	319.9	289.2	259.7	236.3	217.9	200.7	187.0
17.5°	1106.6	884.9	657.3	482.5	350.8	281.9	241.3	217.9	197.0	179.7	163.6
20°	1232.2	974.8	718.8	516.9	363.2	269.6	220.4	195.6	173.6	156.3	142.8
21°	1216.1	957.5	700.3	493.7	339.8	252.3	209.2	185.8	164.9	146.4	134.3
22°	1182.9	916.9	657.3	450.4	311.3	235.1	199.4	174.8	155.0	137.8	125.6
23°	1138.6	859.0	608.0	404.9	281.9	219.0	189.6	164.9	146.4	129.2	118.1
24°	1083.2	801.2	551.5	359.4	253.4	206.9	178.4	155.0	136.7	121.9	110.9
25°	1021.6	740.9	491.0	321.3	236.3	194.5	166.2	143.9	128.0	114.4	103.4
26°	946.5	669.7	434.5	285.5	215.5	181.1	153.9	134.3	119.4	107.1	96.0
27°	860.4	595.7	371.8	248.6	198.2	167.3	142.8	125.6	111.9	99.7	88.5
28°	782.9	513.3	318.8	221.4	184.6	153.9	132.9	117.0	104.6	92.2	82.6
29°	685.6	434.5	272.0	200.7	169.8	143.9	123.0	108.4	96.0	83.7	75.1
30°	588.3	359.4	232.6	183.5	155.0	131.8	113.3	99.7	87.5	77.5	70.2
31°	487.4	297.9	204.3	168.7	141.5	121.9	104.6	92.2	80.0	71.3	64.1
32°	372.9	243.8	182.1	152.6	129.2	109.5	96.0	83.7	72.6	65.1	57.8
33°	280.6	205.5	164.9	137.8	117.0	100.9	87.5	75.1	66.5	59.2	52.9
34°	224.1	183.5	149.0	124.3	105.8	91.2	77.5	67.8	59.2	52.9	46.8
35°	197.0	164.9	132.9	111.9	94.7	80.0	68.8	60.3	52.9	46.8	41.9
36°	174.8	147.7	118.1	99.7	82.6	70.2	60.3	52.9	45.4	40.7	36.9
37°	156.3	130.5	104.6	86.1	71.3	61.6	52.9	45.4	39.3	35.8	33.3
38°	140.4	111.9	88.5	73.7	61.6	52.9	45.4	39.3	34.4	30.7	28.3
39°	119.4	94.7	73.7	62.7	51.7	44.4	38.2	34.4	29.5	27.1	24.5
40°	99.7	78.8	61.6	51.7	44.4	36.9	33.3	28.3	25.8	23.4	21.0
42.5°	61.6	49.2	39.3	33.3	28.3	24.5	22.0	19.7	17.3	15.9	14.8
45°	38.2	30.7	24.5	21.0	17.3	15.9	14.8	12.4	12.4	11.0	11.0
47.5°	22.0	18.5	13.5	12.4	9.9	9.9	8.6	8.6	7.3	8.6	7.3
50°	12.4	8.6	7.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
51°	9.9	7.3	6.1	4.9	4.9	4.9	4.9	4.9	4.9	6.1	6.1
52°	7.3	6.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
53°	6.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
54°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
55°	4.9	4.9	4.9	4.9	4.9	3.7	4.9	4.9	4.9	4.9	4.9
57.5°	4.9	4.9	3.7	3.7	4.9	3.7	4.9	4.9	4.9	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9



TEST NUMBER: P1219617

CATALOG NUMBER: LDSQA6A35950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
64°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
66°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	6.1	6.1	6.1	6.1	4.9	4.9	4.9	4.9
72.5°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	4.9
75°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	4.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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: P1219617

CATALOG NUMBER: LDSQA6A35950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6
2.5°	219.0	219.0	217.9	215.5	197.0	181.1	171.1	169.8
5°	220.4	217.9	212.9	209.2	176.0	155.0	142.8	141.5
7.5°	215.5	210.4	204.3	197.0	156.3	134.3	123.0	120.5
10°	206.9	198.2	190.7	181.1	137.8	117.0	107.1	104.6
11°	200.7	192.1	184.6	174.8	130.5	110.9	100.9	99.7
12°	195.6	185.8	176.0	167.3	123.0	104.6	96.0	94.7
13°	188.3	178.4	169.8	160.1	117.0	99.7	91.2	89.9
14°	182.1	171.1	162.4	153.9	110.9	93.6	87.5	86.1
15°	174.8	163.6	153.9	145.3	104.6	88.5	83.7	82.6
17.5°	155.0	142.8	134.3	125.6	89.9	77.5	73.7	75.1
20°	131.8	121.9	114.4	107.1	76.3	67.8	66.5	67.8
21°	123.0	114.4	108.4	100.9	71.3	64.1	64.1	65.1
22°	115.6	107.1	100.9	93.6	67.8	60.3	60.3	62.7
23°	108.4	99.7	93.6	87.5	62.7	57.8	57.8	60.3
24°	100.9	93.6	87.5	81.2	59.2	54.1	55.4	57.8
25°	93.6	87.5	81.2	76.3	55.4	51.7	52.9	55.4
26°	88.5	81.2	76.3	70.2	51.7	49.2	50.5	54.1
27°	81.2	75.1	70.2	65.1	49.2	46.8	49.2	51.7
28°	76.3	70.2	65.1	60.3	45.4	44.4	46.8	50.5
29°	70.2	65.1	60.3	56.6	43.1	41.9	45.4	47.9
30°	64.1	59.2	55.4	51.7	40.7	39.3	43.1	46.8
31°	59.2	55.4	51.7	47.9	38.2	38.2	41.9	45.4
32°	54.1	50.5	46.8	43.1	35.8	35.8	40.7	43.1
33°	49.2	45.4	41.9	39.3	33.3	34.4	38.2	41.9
34°	43.1	40.7	38.2	35.8	30.7	32.0	36.9	40.7
35°	39.3	36.9	34.4	32.0	29.5	30.7	35.8	39.3
36°	34.4	33.3	30.7	29.5	27.1	29.5	34.4	38.2
37°	30.7	29.5	27.1	25.8	25.8	28.3	33.3	36.9
38°	27.1	25.8	24.5	23.4	24.5	27.1	32.0	35.8
39°	23.4	22.0	22.0	21.0	23.4	25.8	30.7	34.4
40°	21.0	19.7	19.7	18.5	22.0	24.5	29.5	34.4
42.5°	14.8	14.8	14.8	14.8	18.5	22.0	27.1	32.0
45°	11.0	11.0	11.0	11.0	15.9	19.7	23.4	29.5
47.5°	8.6	8.6	8.6	8.6	14.8	18.5	22.0	25.8
50°	6.1	6.1	7.3	7.3	13.5	15.9	19.7	23.4
51°	6.1	6.1	6.1	7.3	12.4	15.9	18.5	22.0
52°	6.1	6.1	6.1	6.1	12.4	14.8	17.3	19.7
53°	4.9	6.1	6.1	6.1	11.0	14.8	15.9	18.5
54°	4.9	4.9	4.9	6.1	11.0	13.5	14.8	17.3
55°	4.9	4.9	4.9	6.1	9.9	13.5	14.8	14.8
57.5°	4.9	4.9	4.9	4.9	9.9	12.4	13.5	12.4
60°	4.9	4.9	4.9	4.9	8.6	11.0	12.4	8.6



TEST NUMBER: P1219617

CATALOG NUMBER: LDSQA6A35950D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	4.9	4.9	4.9	4.9	8.6	9.9	9.9	7.3
64°	4.9	4.9	4.9	4.9	8.6	9.9	9.9	7.3
65°	4.9	4.9	4.9	4.9	8.6	8.6	8.6	6.1
66°	4.9	4.9	4.9	4.9	8.6	8.6	8.6	6.1
67.5°	4.9	4.9	4.9	4.9	8.6	8.6	7.3	6.1
70°	4.9	4.9	4.9	6.1	7.3	7.3	7.3	6.1
72.5°	4.9	4.9	4.9	6.1	7.3	7.3	6.1	4.9
75°	6.1	6.1	6.1	6.1	7.3	7.3	6.1	3.7
77.5°	6.1	6.1	6.1	6.1	7.3	6.1	4.9	3.7
80°	6.1	6.1	4.9	4.9	6.1	6.1	3.7	2.4
82.5°	6.1	6.1	4.9	4.9	6.1	4.9	3.7	2.4
85°	6.1	6.1	4.9	4.9	6.1	4.9	2.4	1.4
87.5°	6.1	4.9	4.9	4.9	6.1	4.9	1.4	1.4
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





61°	3.7	3.7	3.7	3.7	4.9	3.7	4.9	6.1	7.3	7.3	7.3
62°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9

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Scaled Data Report





61°	7.3	7.3	6.1	6.1	4.9	3.7	3.7	3.7	3.7	3.7	3.7
62°	4.9	4.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9

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Scaled Data Report





61°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9

Classified

Cooper Lighting Solutions Photometric Lab

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Scaled Data Report



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

Scaled Data Report



61°	4.9	4.9	4.9	4.9	8.6	11.0	11.0	8.6
62°	4.9	4.9	4.9	4.9	8.6	9.9	11.0	7.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)