

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: P1212528

Luminaire Tested: **LDSQA6A35930D010TE LARL20NF 6LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212528
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: LDSQA6A35930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

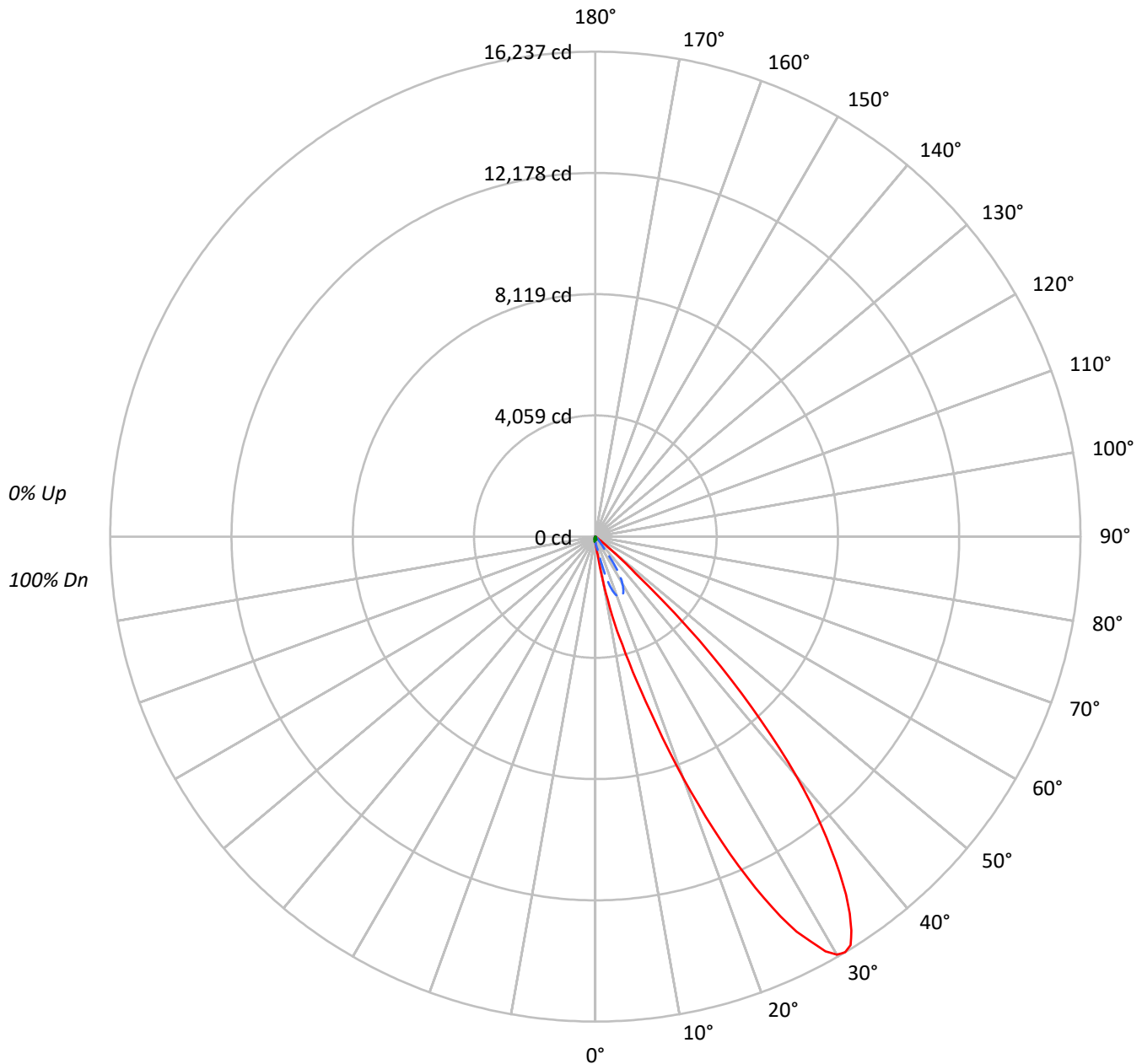
Lumens per Lamp: N/A
Luminaire Lumens: 2833.8 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	8232	8232	8232
5°	16424	7974	5398
10°	73856	6982	4035
15°	193623	5714	3241
20°	394226	4330	2740
25°	634347	3197	2318
30°	803492	2262	2048
35°	768603	1487	1824
40°	589339	911	1709
45°	299731	591	1589
50°	45964	435	1387
55°	6028	405	976
60°	654	370	654
65°	112	438	550
70°	138	680	680
75°	0	898	532
80°	0	1066	545
85°	0	2124	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.9
10°-20°	280.2	9.9
20°-30°	917.5	32.4
30°-40°	1116.8	39.4
40°-50°	453.7	16.0
50°-60°	26.9	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°	1223.2	43.2
0°-40°	2340.0	82.6
0°-60°	2820.6	99.5
0°-90°	2833.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	191	191	191	191	191	
5°	380	290	184	137	125	72
15°	4344	1448	128	78	73	1413
25°	13353	2155	67	46	49	6136
35°	14623	861	28	27	35	8844
45°	4922	98	10	18	26	3777
55°	80	10	5	12	13	139
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°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	269.3	257.2	262.8	261.7	257.2	258.5	260.6	256.1	258.5	251.8	252.9
5°	380.0	362.7	372.4	361.6	367.0	361.6	361.6	355.0	349.6	348.5	343.1
7.5°	663.3	621.0	634.0	587.3	594.9	579.8	565.6	550.4	524.3	511.4	483.1
10°	1689.3	1570.0	1598.0	1496.0	1493.8	1458.0	1391.8	1346.2	1249.6	1181.2	1083.4
11°	2136.6	2055.2	2080.1	1968.3	1962.9	1914.1	1835.8	1714.3	1660.0	1568.9	1447.2
12°	2720.7	2583.9	2599.2	2476.4	2464.6	2399.4	2311.4	2161.6	2096.5	1985.8	1842.5
13°	3251.5	3130.0	3131.1	2997.5	2983.5	2900.9	2804.2	2623.0	2550.2	2426.4	2253.8
14°	3739.1	3646.8	3628.3	3556.6	3480.7	3384.0	3281.9	3076.7	2996.5	2857.5	2659.9
15°	4343.8	4163.6	4127.8	4037.6	3945.4	3823.7	3698.8	3464.5	3375.4	3222.4	3025.8
17.5°	6127.6	5905.1	5807.3	5623.7	5450.0	5216.8	4946.4	4530.6	4325.4	4050.7	3743.5
20°	8604.0	8253.4	8056.8	7762.7	7482.4	7100.3	6633.5	5978.9	5674.9	5142.8	4639.1
21°	9584.3	9282.6	9036.2	8705.0	8373.8	7921.1	7366.3	6673.7	6204.6	5582.5	4991.9
22°	10574.5	10287.9	10000.3	9636.5	9266.2	8737.6	8098.0	7294.7	6731.3	6004.8	5324.2
23°	11549.5	11258.5	11037.1	10538.6	10117.4	9521.5	8812.4	7893.9	7239.2	6406.6	5636.9
24°	12485.3	12167.1	11891.3	11388.8	10912.1	10248.8	9485.6	8475.8	7730.1	6789.8	5926.7
25°	13352.8	13002.1	12663.4	12146.6	11628.7	10904.6	10079.5	9002.5	8177.4	7137.2	6190.6
26°	14150.7	13671.9	13303.8	12826.3	12237.8	11477.7	10601.6	9457.4	8562.8	7427.2	6397.9
27°	14842.3	14358.1	13935.8	13424.4	12767.6	11948.9	11032.7	9784.1	8867.9	7644.2	6542.3
28°	15345.0	14935.7	14449.3	13898.9	13176.9	12273.7	11324.7	10044.7	9051.3	7757.1	6602.0
29°	15878.0	15412.3	14845.5	14220.2	13434.1	12477.6	11485.4	10180.4	9127.3	7783.2	6590.0
30°	16161.5	15732.5	15066.0	14384.2	13544.8	12542.8	11520.2	10201.0	9103.3	7720.2	6511.9
31°	16237.4	15836.8	15098.6	14387.4	13510.1	12478.9	11434.3	10094.6	8974.3	7573.7	6366.4
32°	16127.8	15727.1	14960.7	14248.4	13350.6	12299.6	11245.5	9904.7	8763.7	7354.4	6159.1
33°	15733.6	15409.1	14669.6	13984.6	13107.4	12033.7	10967.6	9595.3	8435.7	7069.9	5909.4
34°	15229.8	14927.0	14245.2	13542.7	12722.0	11668.9	10584.2	9220.7	8059.0	6720.3	5612.9
35°	14623.0	14324.4	13695.8	12997.8	12211.7	11183.6	10093.5	8750.5	7613.8	6325.2	5284.1
36°	13907.5	13597.0	13016.2	12351.8	11636.3	10597.3	9512.6	8210.0	7107.8	5895.2	4932.2
37°	13120.4	12807.7	12288.8	11673.2	10965.4	9937.3	8862.3	7613.8	6573.8	5449.0	4564.3
38°	12289.9	11999.0	11527.7	10913.2	10213.0	9203.2	8151.3	7068.8	6029.8	4997.3	4191.8
39°	11437.6	11131.4	10687.3	10083.8	9395.5	8398.8	7409.7	6442.4	5560.9	4553.3	3849.8
40°	10485.5	10196.6	9682.0	9208.8	8518.1	7569.4	6667.2	5750.8	5039.6	4126.7	3539.3
42.5°	7756.0	7530.3	7255.6	6770.3	6260.0	5579.3	4948.6	4313.3	3796.6	3278.7	2847.8
45°	4922.5	4756.3	4615.2	4313.3	4107.1	3723.8	3398.2	3073.5	2829.2	2557.8	2079.0
47.5°	1821.8	1743.7	1693.6	1561.1	1549.3	1426.5	1414.6	1571.0	1663.2	1565.5	1177.9
50°	686.2	666.5	654.7	613.4	585.2	528.7	486.4	454.9	390.8	346.3	310.5
51°	450.5	436.5	415.8	412.6	400.7	369.2	349.6	343.1	299.7	252.9	217.1
52°	286.6	277.9	265.0	266.0	259.6	239.9	233.5	243.2	220.3	194.4	168.3
53°	180.2	175.9	167.2	167.2	166.1	153.0	150.8	159.7	155.3	143.3	128.2
54°	117.2	116.1	108.5	109.6	109.6	102.1	101.0	104.2	103.1	98.8	91.3
55°	80.3	79.2	78.1	74.9	72.7	70.6	70.6	71.6	70.6	68.4	64.1
57.5°	28.3	27.2	28.3	27.2	27.2	28.3	27.2	29.3	30.4	30.4	28.3
60°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.7	10.8	10.8	10.8



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	2.2
64°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
66°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	249.7	250.7	246.4	245.3	244.3	238.9	235.6	232.4	229.1	223.6	225.9
5°	334.4	334.4	324.5	318.1	314.8	302.9	297.5	289.8	281.2	274.7	271.4
7.5°	466.9	459.2	437.6	421.2	411.5	387.5	373.5	352.8	340.9	328.0	320.2
10°	990.2	939.1	832.7	756.7	685.1	598.1	518.9	457.0	416.9	387.5	369.2
11°	1334.3	1267.0	1131.3	1026.0	932.6	808.7	687.2	571.1	487.4	436.5	398.5
12°	1712.2	1625.2	1462.3	1332.2	1218.1	1062.9	907.6	754.6	634.0	538.6	460.3
13°	2105.1	1993.3	1804.3	1654.6	1523.2	1344.1	1159.6	976.0	829.4	699.1	580.9
14°	2494.8	2358.2	2150.6	1978.0	1830.4	1630.6	1421.1	1217.0	1045.4	881.6	737.1
15°	2848.9	2698.9	2516.6	2290.9	2131.2	1874.9	1677.4	1448.3	1252.8	1062.9	894.6
17.5°	3483.9	3281.9	3067.0	2833.6	2681.6	2428.7	2177.8	1901.0	1664.3	1428.8	1202.9
20°	4181.9	3821.6	3467.7	3120.3	2899.8	2630.5	2385.2	2111.6	1861.9	1594.8	1349.5
21°	4456.6	4044.1	3613.1	3223.4	2973.6	2686.0	2432.0	2148.5	1885.9	1601.5	1343.0
22°	4717.3	4224.4	3740.2	3310.2	3037.7	2743.6	2470.0	2172.4	1892.3	1593.7	1323.4
23°	4955.0	4398.1	3857.4	3386.2	3084.5	2771.8	2489.4	2182.1	1889.1	1576.4	1294.2
24°	5171.0	4557.6	3957.3	3442.7	3112.6	2780.5	2487.2	2174.6	1872.7	1550.3	1253.9
25°	5357.9	4683.6	4030.0	3473.1	3120.3	2776.1	2476.4	2155.1	1840.1	1505.9	1207.3
26°	5499.0	4763.9	4064.8	3477.4	3109.3	2761.9	2451.4	2119.3	1789.2	1446.1	1144.3
27°	5580.4	4793.2	4064.8	3458.9	3087.7	2735.8	2411.3	2063.9	1723.0	1372.3	1066.1
28°	5594.6	4780.3	4035.4	3420.9	3046.5	2690.3	2352.6	1993.3	1644.8	1284.3	980.3
29°	5557.5	4728.1	3972.4	3355.7	2985.7	2631.6	2276.6	1904.2	1551.4	1187.8	891.4
30°	5466.4	4632.7	3879.2	3273.3	2912.9	2554.6	2181.1	1805.4	1446.1	1087.9	789.3
31°	5324.2	4494.8	3759.7	3173.4	2822.8	2462.4	2075.8	1691.5	1327.9	964.1	678.6
32°	5135.2	4301.5	3627.2	3059.5	2722.9	2356.9	1944.4	1546.0	1171.4	813.2	550.4
33°	4912.7	4112.5	3479.6	2936.7	2614.3	2212.6	1763.1	1328.9	980.3	644.9	416.9
34°	4658.6	3909.6	3321.0	2807.6	2472.1	2000.9	1537.4	1105.2	770.8	471.2	294.3
35°	4377.4	3693.4	3155.0	2655.5	2247.3	1742.6	1278.9	860.9	558.0	319.1	221.4
36°	4077.7	3451.3	2965.0	2438.5	1978.0	1452.6	1005.3	619.9	370.3	237.8	191.2
37°	3795.5	3240.7	2768.4	2165.9	1674.2	1149.7	733.9	413.6	270.4	207.4	169.4
38°	3529.6	3037.7	2512.3	1864.1	1361.5	862.0	483.1	305.1	234.5	182.3	149.8
39°	3280.9	2833.6	2212.6	1540.6	1048.7	608.0	350.6	261.7	204.1	161.8	132.5
40°	3040.9	2541.6	1885.9	1256.0	764.3	424.4	295.4	231.3	180.2	142.2	111.8
42.5°	2281.0	1632.8	1044.4	572.2	359.3	276.8	210.6	162.9	119.3	88.0	67.3
45°	1432.1	830.5	448.4	321.3	250.7	187.7	136.8	97.7	71.6	53.3	42.3
47.5°	651.4	357.1	277.9	214.9	161.8	111.8	80.3	58.7	43.4	33.7	25.0
50°	238.9	203.0	165.1	122.8	89.1	64.1	46.6	34.7	26.1	19.6	14.0
51°	186.7	162.9	131.4	92.3	70.6	52.2	38.0	28.3	20.7	15.1	10.8
52°	146.5	129.2	101.0	71.6	55.4	41.2	30.4	21.8	15.1	11.9	8.6
53°	112.9	98.8	76.0	55.4	43.4	32.6	23.9	17.5	11.9	8.6	6.5
54°	83.5	72.7	56.5	42.3	33.7	25.0	17.5	13.0	8.6	6.5	5.4
55°	59.8	53.3	42.3	33.7	26.1	19.6	13.0	9.7	6.5	4.3	4.3
57.5°	25.0	23.9	19.6	16.2	13.0	9.7	6.5	4.3	4.3	3.2	4.3
60°	9.7	9.7	8.6	6.5	5.4	4.3	3.2	3.2	3.2	3.2	3.2

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	2.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3
64°	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3
65°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	3.2	4.3
66°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	3.2	4.3
67.5°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	4.3	4.3
70°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	4.3	4.3
72.5°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
75°	1.1	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
77.5°	1.1	2.2	2.2	2.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3
80°	1.1	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
82.5°	1.1	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
85°	1.1	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
87.5°	1.1	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
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

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212528

CATALOG NUMBER: LDSQA6A35930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	222.5	222.5	214.9	212.8	211.7	209.5	204.1	204.1	200.9	196.6	194.4
5°	263.9	261.7	249.7	243.2	237.8	231.3	220.3	216.0	209.5	203.0	197.6
7.5°	304.0	296.5	277.9	268.2	260.6	249.7	235.6	225.9	214.9	204.1	196.6
10°	344.2	329.0	302.9	286.6	272.5	257.2	239.9	229.1	214.9	200.9	190.1
11°	360.4	340.9	311.6	290.9	274.7	257.2	239.9	225.9	212.8	198.7	186.7
12°	391.9	355.0	320.2	297.5	276.8	257.2	237.8	222.5	208.4	194.4	182.3
13°	455.9	387.5	330.1	302.9	280.1	257.2	235.6	219.2	204.1	190.1	176.9
14°	572.2	454.9	356.0	308.3	281.2	257.2	233.5	213.8	198.7	183.4	171.5
15°	703.4	558.0	409.3	328.0	282.2	255.1	229.1	208.4	192.2	176.9	165.1
17.5°	976.0	780.7	579.8	425.5	309.4	248.6	212.8	192.2	173.7	158.6	144.4
20°	1086.8	859.9	634.0	455.9	320.2	237.8	194.4	172.6	153.0	137.9	126.0
21°	1072.6	844.7	617.8	435.4	299.7	222.5	184.5	164.0	145.4	129.2	118.3
22°	1043.3	808.7	579.8	397.4	274.7	207.4	175.9	154.1	136.8	121.7	110.7
23°	1004.2	757.8	536.4	357.1	248.6	193.3	167.2	145.4	129.2	113.9	104.2
24°	955.4	706.9	486.4	317.0	223.6	182.3	157.5	136.8	120.6	107.5	97.7
25°	901.1	653.6	433.3	283.3	208.4	171.5	146.5	127.1	112.9	101.0	91.3
26°	834.8	590.6	383.2	251.8	190.1	159.7	135.7	118.3	105.3	94.5	84.6
27°	758.9	525.4	328.0	219.2	174.8	147.6	126.0	110.7	98.8	88.0	78.1
28°	690.5	452.7	281.2	195.5	162.9	135.7	117.2	103.1	92.3	81.4	72.7
29°	604.8	383.2	239.9	176.9	149.8	127.1	108.5	95.6	84.6	73.8	66.2
30°	518.9	317.0	205.2	161.8	136.8	116.1	99.9	88.0	77.0	68.4	61.9
31°	429.8	262.8	180.2	148.7	124.9	107.5	92.3	81.4	70.6	63.0	56.5
32°	329.0	214.9	160.7	134.6	113.9	96.7	84.6	73.8	64.1	57.6	50.9
33°	247.5	181.3	145.4	121.7	103.1	89.1	77.0	66.2	58.7	52.2	46.6
34°	197.6	161.8	131.4	109.6	93.4	80.3	68.4	59.8	52.2	46.6	41.2
35°	173.7	145.4	117.2	98.8	83.5	70.6	60.8	53.3	46.6	41.2	36.9
36°	154.1	130.3	104.2	88.0	72.7	61.9	53.3	46.6	40.1	35.8	32.6
37°	137.9	115.0	92.3	76.0	63.0	54.4	46.6	40.1	34.7	31.5	29.3
38°	123.8	98.8	78.1	65.2	54.4	46.6	40.1	34.7	30.4	27.2	25.0
39°	105.3	83.5	65.2	55.4	45.5	39.1	33.7	30.4	26.1	23.9	21.8
40°	88.0	69.5	54.4	45.5	39.1	32.6	29.3	25.0	22.9	20.7	18.5
42.5°	54.4	43.4	34.7	29.3	25.0	21.8	19.6	17.5	15.1	14.0	13.0
45°	33.7	27.2	21.8	18.5	15.1	14.0	13.0	10.8	10.8	9.7	9.7
47.5°	19.6	16.2	11.9	10.8	8.6	8.6	7.6	7.6	6.5	7.6	6.5
50°	10.8	7.6	6.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
51°	8.6	6.5	5.4	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.4
52°	6.5	5.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
53°	5.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
54°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
55°	4.3	4.3	4.3	4.3	4.3	3.2	4.3	4.3	4.3	4.3	4.3
57.5°	4.3	4.3	3.2	3.2	4.3	3.2	4.3	4.3	4.3	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



TEST NUMBER: P1212528

CATALOG NUMBER: LDSQA6A35930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
64°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
66°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	5.4	5.4	5.4	5.4	4.3	4.3	4.3	4.3
72.5°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.3
75°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
80°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
82.5°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
85°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
87.5°	4.3	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: P1212528

CATALOG NUMBER: LDSQA6A35930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	193.3	193.3	192.2	190.1	173.7	159.7	150.8	149.8
5°	194.4	192.2	187.7	184.5	155.3	136.8	126.0	124.9
7.5°	190.1	185.6	180.2	173.7	137.9	118.3	108.5	106.4
10°	182.3	174.8	168.3	159.7	121.7	103.1	94.5	92.3
11°	176.9	169.4	162.9	154.1	115.0	97.7	89.1	88.0
12°	172.6	164.0	155.3	147.6	108.5	92.3	84.6	83.5
13°	166.1	157.5	149.8	141.1	103.1	88.0	80.3	79.2
14°	160.7	150.8	143.3	135.7	97.7	82.4	77.0	76.0
15°	154.1	144.4	135.7	128.2	92.3	78.1	73.8	72.7
17.5°	136.8	126.0	118.3	110.7	79.2	68.4	65.2	66.2
20°	116.1	107.5	101.0	94.5	67.3	59.8	58.7	59.8
21°	108.5	101.0	95.6	89.1	63.0	56.5	56.5	57.6
22°	102.1	94.5	89.1	82.4	59.8	53.3	53.3	55.4
23°	95.6	88.0	82.4	77.0	55.4	50.9	50.9	53.3
24°	89.1	82.4	77.0	71.6	52.2	47.7	48.8	50.9
25°	82.4	77.0	71.6	67.3	48.8	45.5	46.6	48.8
26°	78.1	71.6	67.3	61.9	45.5	43.4	44.5	47.7
27°	71.6	66.2	61.9	57.6	43.4	41.2	43.4	45.5
28°	67.3	61.9	57.6	53.3	40.1	39.1	41.2	44.5
29°	61.9	57.6	53.3	49.9	38.0	36.9	40.1	42.3
30°	56.5	52.2	48.8	45.5	35.8	34.7	38.0	41.2
31°	52.2	48.8	45.5	42.3	33.7	33.7	36.9	40.1
32°	47.7	44.5	41.2	38.0	31.5	31.5	35.8	38.0
33°	43.4	40.1	36.9	34.7	29.3	30.4	33.7	36.9
34°	38.0	35.8	33.7	31.5	27.2	28.3	32.6	35.8
35°	34.7	32.6	30.4	28.3	26.1	27.2	31.5	34.7
36°	30.4	29.3	27.2	26.1	23.9	26.1	30.4	33.7
37°	27.2	26.1	23.9	22.9	22.9	25.0	29.3	32.6
38°	23.9	22.9	21.8	20.7	21.8	23.9	28.3	31.5
39°	20.7	19.6	19.6	18.5	20.7	22.9	27.2	30.4
40°	18.5	17.5	17.5	16.2	19.6	21.8	26.1	30.4
42.5°	13.0	13.0	13.0	13.0	16.2	19.6	23.9	28.3
45°	9.7	9.7	9.7	9.7	14.0	17.5	20.7	26.1
47.5°	7.6	7.6	7.6	7.6	13.0	16.2	19.6	22.9
50°	5.4	5.4	6.5	6.5	11.9	14.0	17.5	20.7
51°	5.4	5.4	5.4	6.5	10.8	14.0	16.2	19.6
52°	5.4	5.4	5.4	5.4	10.8	13.0	15.1	17.5
53°	4.3	5.4	5.4	5.4	9.7	13.0	14.0	16.2
54°	4.3	4.3	4.3	5.4	9.7	11.9	13.0	15.1
55°	4.3	4.3	4.3	5.4	8.6	11.9	13.0	13.0
57.5°	4.3	4.3	4.3	4.3	8.6	10.8	11.9	10.8
60°	4.3	4.3	4.3	4.3	7.6	9.7	10.8	7.6



TEST NUMBER: P1212528

CATALOG NUMBER: LDSQA6A35930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	4.3	4.3	4.3	4.3	7.6	8.6	8.6	6.5
64°	4.3	4.3	4.3	4.3	7.6	8.6	8.6	6.5
65°	4.3	4.3	4.3	4.3	7.6	7.6	7.6	5.4
66°	4.3	4.3	4.3	4.3	7.6	7.6	7.6	5.4
67.5°	4.3	4.3	4.3	4.3	7.6	7.6	6.5	5.4
70°	4.3	4.3	4.3	5.4	6.5	6.5	6.5	5.4
72.5°	4.3	4.3	4.3	5.4	6.5	6.5	5.4	4.3
75°	5.4	5.4	5.4	5.4	6.5	6.5	5.4	3.2
77.5°	5.4	5.4	5.4	5.4	6.5	5.4	4.3	3.2
80°	5.4	5.4	4.3	4.3	5.4	5.4	3.2	2.2
82.5°	5.4	5.4	4.3	4.3	5.4	4.3	3.2	2.2
85°	5.4	5.4	4.3	4.3	5.4	4.3	2.2	1.1
87.5°	5.4	4.3	4.3	4.3	5.4	4.3	1.1	1.1
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

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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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61°	3.2	3.2	3.2	3.2	4.3	3.2	4.3	5.4	6.5	6.5	6.5
62°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3

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Scaled Data Report





61°	6.5	6.5	5.4	5.4	4.3	3.2	3.2	3.2	3.2	3.2	3.2
62°	4.3	4.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3

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Scaled Data Report





61°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
62°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

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Scaled Data Report



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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report



61°	4.3	4.3	4.3	4.3	7.6	9.7	9.7	7.6
62°	4.3	4.3	4.3	4.3	7.6	8.6	9.7	6.5

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)