

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: P1212478

Luminaire Tested: **LDSQA6A25930D010TE LARL15SP 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: P1212478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29054)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A25930D010TE LARL15SP 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

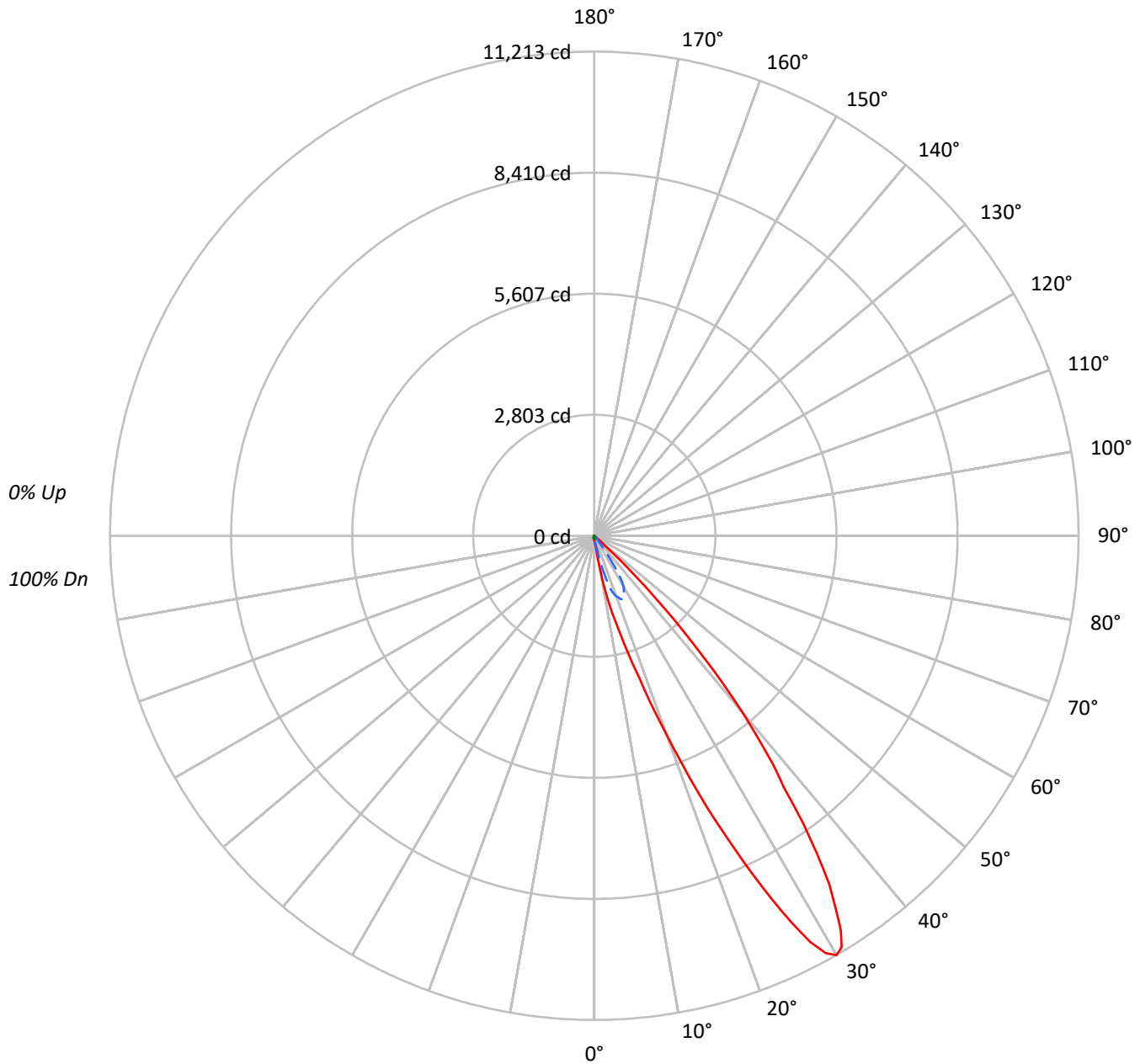
Lumens per Lamp: N/A
Luminaire Lumens: 1649.7 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 0.62 / 1.12
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67		
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	51	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4654	4654	4654
5°	7179	4408	3540
10°	38504	3917	2938
15°	106172	3165	2514
20°	225456	2369	2195
25°	408106	1724	1910
30°	557490	1268	1690
35°	472562	894	1545
40°	299967	607	1478
45°	103970	469	1358
50°	6363	368	1192
55°	1096	293	931
60°	267	267	594
65°	163	316	479
70°	201	390	491
75°	0	516	516
80°	0	769	397
85°	0	1531	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.8
10°-20°	169.6	10.3
20°-30°	589.5	35.7
30°-40°	646.3	39.2
40°-50°	213.1	12.9
50°-60°	8.9	0.5
60°-70°	3.8	0.2
70°-80°	3.0	0.2
80°-90°	2.0	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°	772.6	46.8
0°-40°	1418.9	86.0
0°-60°	1640.9	99.5
0°-90°	1649.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	108	108	108	108	108	
5°	166	135	102	87	82	35
15°	2382	971	71	57	56	792
25°	8590	1592	36	36	40	4020
35°	8991	531	17	22	29	5404
45°	1708	26	8	15	22	1504
55°	15	3	4	10	12	21
65°	2	2	3	6	5	2
75°	0	2	3	4	3	1
85°	0	2	3	2	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°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	128.2	127.4	127.4	127.4	126.7	125.2	125.2	126.0	126.0	125.2	126.0
5°	166.1	164.5	163.7	163.1	159.9	159.2	156.0	158.4	156.0	153.7	153.7
7.5°	304.4	303.6	290.5	282.0	267.3	250.3	245.7	246.4	235.7	225.6	219.4
10°	880.7	882.3	843.6	859.2	803.5	781.1	738.5	723.1	684.6	652.1	612.6
11°	1178.2	1176.7	1128.0	1142.6	1086.2	1054.6	1006.7	981.9	933.3	900.8	851.3
12°	1499.6	1452.5	1436.3	1450.1	1392.2	1350.5	1292.5	1260.8	1200.6	1167.3	1107.9
13°	1817.8	1804.0	1749.9	1763.0	1703.6	1612.4	1588.4	1550.6	1480.3	1440.9	1374.4
14°	2093.7	2042.7	2025.7	2034.2	1975.4	1889.0	1865.1	1853.5	1745.2	1702.8	1628.6
15°	2381.9	2320.1	2296.1	2264.5	2229.7	2126.9	2092.2	2069.7	1957.8	1886.6	1838.7
17.5°	3429.5	3342.2	3283.5	3211.7	3135.2	2945.2	2866.3	2791.4	2595.1	2500.9	2358.8
20°	4920.6	4786.9	4636.2	4480.2	4330.3	3995.1	3800.3	3591.8	3323.7	3099.6	2929.6
21°	5642.3	5482.3	5300.7	5183.3	4901.3	4491.8	4229.1	3931.7	3587.1	3309.7	3095.7
22°	6398.6	6216.3	6064.8	5891.8	5500.9	5012.5	4682.7	4301.0	3855.3	3512.9	3242.5
23°	7133.3	6927.0	6745.5	6534.6	6082.6	5517.1	5125.3	4670.3	4133.4	3707.6	3373.1
24°	7834.8	7620.8	7412.2	7134.9	6617.3	5992.2	5531.7	5013.3	4398.3	3894.6	3495.9
25°	8590.5	8340.0	8070.4	7648.6	7122.5	6415.5	5885.5	5311.5	4634.0	4066.9	3599.5
26°	9342.9	9050.9	8646.9	8217.3	7588.3	6797.2	6193.0	5553.4	4834.8	4205.2	3676.0
27°	10049.1	9736.1	9261.9	8673.9	8006.3	7124.0	6446.5	5744.9	4974.7	4294.8	3711.5
28°	10653.2	10308.7	9780.2	9110.4	8317.7	7364.3	6614.1	5857.7	5041.9	4328.8	3716.2
29°	11051.1	10707.3	10137.9	9393.9	8493.8	7483.2	6680.6	5882.5	5038.0	4308.7	3684.5
30°	11213.4	10866.5	10284.8	9486.6	8527.0	7485.6	6653.6	5830.7	4970.9	4245.4	3621.9
31°	11118.3	10785.4	10195.1	9391.5	8409.6	7377.5	6540.0	5700.1	4837.2	4133.4	3528.4
32°	10767.5	10462.4	9895.3	9130.4	8167.8	7160.3	6344.5	5507.0	4648.6	3987.3	3411.7
33°	10232.9	9978.7	9399.4	8693.9	7844.9	6893.8	6106.6	5310.8	4421.6	3808.9	3287.4
34°	9720.7	9345.2	8831.5	8204.9	7430.7	6547.7	5811.4	5001.7	4180.5	3612.7	3145.2
35°	8990.7	8654.6	8180.2	7644.0	6948.7	6125.0	5388.8	4700.5	3910.9	3423.3	2996.1
36°	8220.3	7924.4	7579.8	7099.3	6434.1	5683.9	5010.2	4330.3	3633.4	3212.5	2838.5
37°	7279.4	7212.9	6892.3	6491.3	5897.2	5204.2	4570.7	3982.7	3373.9	3017.8	2665.5
38°	6723.8	6506.0	6212.4	5859.3	5276.8	4722.0	4146.5	3633.4	3138.3	2835.4	2468.5
39°	6016.9	5833.0	5562.6	5245.1	4743.7	4219.8	3751.7	3342.2	2943.6	2651.5	2255.9
40°	5337.0	5184.1	4936.0	4663.4	4208.3	3777.2	3410.9	3085.7	2750.4	2455.3	2045.8
42.5°	3365.4	3289.6	3187.7	3150.6	2987.6	2875.6	2741.9	2554.1	2259.0	1926.8	1641.0
45°	1707.5	1658.8	1657.2	1732.9	1784.7	1790.0	1777.7	1729.8	1538.3	1443.2	1189.0
47.5°	287.4	273.4	282.0	333.0	404.9	492.1	589.5	709.3	837.5	810.5	624.3
50°	95.0	91.9	89.6	91.9	88.8	91.1	89.6	87.2	78.9	82.7	85.0
51°	58.7	62.6	60.2	61.8	61.0	63.3	63.3	62.6	57.2	53.3	48.7
52°	40.2	41.0	41.8	42.4	41.8	42.4	43.2	43.2	41.8	40.2	36.3
53°	28.6	28.6	29.4	29.4	29.4	30.2	30.2	30.2	29.4	29.4	28.6
54°	20.1	20.9	20.9	20.9	20.9	21.7	21.7	21.7	22.3	21.7	21.7
55°	14.6	14.6	14.6	14.6	14.6	14.6	15.4	15.4	16.2	16.2	15.4
57.5°	6.1	6.1	5.5	6.1	6.1	6.1	6.1	6.9	6.9	7.7	7.7
60°	3.1	3.1	3.1	3.1	2.3	3.1	3.1	3.1	3.1	3.9	3.9

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
63°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	1.6	1.6	1.6	1.6
64°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
66°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	123.6	125.2	122.9	124.4	121.3	121.3	119.0	119.7	119.0	117.4	117.4
5°	149.9	149.9	146.0	146.0	141.4	139.1	135.3	135.3	132.9	129.0	128.2
7.5°	205.5	197.8	189.3	186.2	176.9	170.8	163.7	160.7	153.7	147.6	143.0
10°	550.1	499.1	448.9	418.0	342.2	287.4	246.4	218.7	198.6	174.6	165.3
11°	775.7	710.8	645.1	580.9	506.9	431.9	384.8	310.6	263.5	210.1	184.6
12°	1019.8	943.4	863.7	791.1	702.2	608.1	543.2	448.9	382.4	293.5	231.8
13°	1270.2	1183.6	1088.6	1012.9	912.4	804.3	702.2	615.0	532.3	416.4	326.0
14°	1511.1	1419.2	1315.0	1235.3	1122.5	1005.1	890.0	793.5	693.1	554.7	443.4
15°	1725.9	1660.2	1528.2	1449.4	1328.1	1203.0	1074.6	971.2	852.1	698.4	570.2
17.5°	2175.6	2054.3	1892.9	1814.8	1694.3	1586.2	1447.0	1353.5	1206.8	1044.6	903.2
20°	2705.6	2527.1	2308.5	2144.0	1935.3	1745.2	1569.9	1496.5	1405.3	1294.9	1162.7
21°	2850.9	2658.5	2419.8	2252.1	2038.1	1842.6	1636.3	1519.7	1420.0	1324.3	1213.8
22°	2956.7	2753.5	2502.4	2327.8	2107.7	1913.7	1702.8	1562.9	1430.0	1321.9	1222.3
23°	3046.4	2830.0	2568.9	2378.8	2148.6	1948.4	1736.7	1597.7	1450.9	1316.4	1208.3
24°	3127.5	2890.2	2616.0	2412.1	2169.4	1960.8	1741.4	1603.8	1461.0	1319.6	1189.8
25°	3188.4	2928.1	2643.0	2429.0	2174.0	1957.0	1730.6	1592.3	1449.4	1309.5	1168.9
26°	3230.2	2945.8	2650.7	2428.2	2164.8	1941.5	1708.3	1568.3	1421.5	1273.2	1134.9
27°	3243.3	2941.3	2639.9	2410.5	2141.6	1911.3	1670.3	1522.7	1378.3	1230.0	1089.4
28°	3230.2	2922.7	2615.2	2375.6	2103.0	1862.0	1609.3	1462.5	1332.0	1182.1	1033.7
29°	3193.9	2889.4	2569.7	2323.9	2041.9	1781.5	1531.2	1404.6	1278.7	1109.5	940.2
30°	3137.5	2829.2	2504.0	2248.2	1951.5	1680.3	1461.0	1351.3	1190.6	992.0	809.7
31°	3058.7	2751.2	2419.0	2147.8	1831.0	1581.5	1400.0	1251.5	1053.1	836.7	650.5
32°	2962.8	2658.5	2295.3	2014.2	1712.1	1503.4	1291.8	1099.4	879.3	652.9	474.4
33°	2860.2	2539.5	2153.9	1873.6	1610.1	1399.2	1135.7	911.7	684.6	459.0	299.0
34°	2741.1	2393.5	1995.5	1732.2	1495.7	1242.4	950.3	708.5	488.2	278.9	153.7
35°	2597.5	2213.5	1837.9	1610.1	1332.0	1034.5	747.1	530.8	305.9	140.6	83.4
36°	2423.7	2028.0	1701.2	1453.3	1140.3	830.6	539.3	338.4	164.5	82.7	65.7
37°	2202.6	1875.8	1557.6	1266.3	933.3	623.5	347.7	183.9	94.3	67.2	55.6
38°	2011.8	1735.3	1403.8	1062.3	719.3	427.2	210.9	103.5	74.2	56.4	46.4
39°	1847.2	1584.6	1202.2	847.5	513.0	258.8	115.8	78.9	61.8	46.4	39.4
40°	1703.6	1369.8	988.9	635.9	329.8	143.6	83.4	65.7	50.3	38.6	31.7
42.5°	1250.1	869.2	458.2	205.5	96.6	71.8	52.5	41.8	32.5	23.9	20.1
45°	742.4	390.9	138.3	84.2	61.0	45.6	33.2	26.3	20.1	14.6	12.4
47.5°	271.2	99.0	68.0	50.9	38.6	28.6	20.9	16.2	12.4	8.5	6.9
50°	55.6	47.9	37.1	30.2	22.3	17.0	12.4	9.3	6.9	5.5	4.7
51°	42.4	37.1	30.2	23.9	17.8	14.0	10.1	7.7	6.1	4.7	3.9
52°	32.5	28.6	23.1	19.3	14.6	10.8	7.7	6.1	4.7	3.1	3.1
53°	25.5	22.3	17.8	14.6	11.6	8.5	6.1	4.7	3.9	3.1	3.1
54°	19.3	17.0	14.0	11.6	9.3	6.9	4.7	3.9	3.1	3.1	2.3
55°	14.0	13.2	10.8	8.5	6.9	5.5	3.9	3.1	3.1	2.3	2.3
57.5°	6.9	6.1	5.5	4.7	3.9	3.1	2.3	2.3	2.3	2.3	1.6
60°	3.9	3.1	3.1	3.1	2.3	2.3	2.3	1.6	1.6	2.3	2.3



TEST NUMBER: P1212478

CATALOG NUMBER: LDSQA6A25930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
63°	1.6	1.6	1.6	1.6	2.3	1.6	1.6	1.6	2.3	2.3	2.3
64°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
65°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
66°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
75°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
77.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
80°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
82.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
85°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
87.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	2.3	2.3	2.3	2.3
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: P1212478

CATALOG NUMBER: LDSQA6A25930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	115.2	116.6	115.2	113.6	112.8	112.8	112.0	109.7	110.5	109.7	109.7
5°	124.4	125.2	122.1	119.7	118.2	116.6	115.2	112.0	111.2	110.5	109.7
7.5°	136.7	135.9	129.8	126.0	122.1	119.0	115.8	112.0	110.5	108.1	106.7
10°	154.5	149.1	139.1	132.1	126.7	120.5	115.8	109.7	106.7	103.5	101.2
11°	162.3	154.5	144.4	135.3	128.2	121.3	115.8	108.1	104.3	101.2	98.2
12°	186.2	165.3	149.1	139.1	129.8	122.1	115.2	107.3	102.8	98.2	95.0
13°	241.0	192.3	159.2	141.4	132.1	122.9	114.4	105.9	100.4	95.0	91.9
14°	330.6	247.2	183.9	149.9	132.9	122.9	113.6	104.3	98.2	92.7	88.8
15°	438.1	332.2	234.1	170.8	135.9	122.1	112.0	102.0	95.0	88.8	85.0
17.5°	737.9	599.6	449.7	319.9	197.8	133.7	105.9	94.3	85.8	78.9	74.2
20°	988.9	829.8	660.6	499.1	342.2	213.2	122.1	85.8	75.7	68.0	63.3
21°	1043.8	894.7	715.4	546.2	384.0	247.2	138.3	85.8	71.8	64.1	59.5
22°	1072.4	928.6	749.5	577.1	412.6	271.2	155.3	86.6	68.0	60.2	54.8
23°	1067.7	936.3	762.5	586.4	425.7	282.8	162.3	87.2	64.1	56.4	50.9
24°	1039.9	915.6	749.5	575.6	421.9	279.7	159.9	85.8	60.2	52.5	47.9
25°	1005.1	874.6	713.8	546.2	397.1	260.4	148.3	80.3	57.2	49.5	44.8
26°	965.7	833.6	664.5	494.5	357.0	228.0	125.2	71.0	52.5	45.6	41.8
27°	918.6	780.3	603.4	439.6	301.2	183.9	100.4	60.2	48.7	41.8	38.6
28°	848.3	704.6	525.4	366.9	241.0	139.1	75.7	51.7	44.8	38.6	35.5
29°	743.2	598.0	428.0	286.6	176.9	95.8	58.0	46.4	40.2	34.7	32.5
30°	611.9	472.8	317.5	197.0	113.6	64.9	47.1	41.0	35.5	31.7	30.2
31°	463.5	336.1	205.5	113.6	68.0	47.9	41.8	35.5	31.7	28.6	27.8
32°	305.9	203.2	108.9	65.7	49.5	41.8	36.3	31.7	28.6	26.3	25.5
33°	163.7	93.5	62.6	49.5	41.8	36.3	31.7	27.8	25.5	23.9	23.1
34°	83.4	61.0	50.9	42.4	35.5	31.7	27.8	24.7	23.1	21.7	20.9
35°	61.8	52.5	44.0	36.3	30.9	27.8	24.7	22.3	20.9	19.3	19.3
36°	52.5	44.0	36.3	31.7	27.8	24.7	22.3	19.3	18.5	17.8	17.0
37°	44.0	37.9	31.7	27.0	23.9	21.7	19.3	17.8	16.2	15.4	15.4
38°	37.1	32.5	27.0	23.1	20.9	19.3	17.0	15.4	14.6	14.0	14.0
39°	30.9	27.0	23.1	20.1	17.8	16.2	14.6	14.0	13.2	12.4	12.4
40°	25.5	23.1	19.3	17.0	15.4	14.0	13.2	12.4	11.6	10.8	11.6
42.5°	16.2	14.0	12.4	11.6	10.1	10.1	9.3	8.5	8.5	8.5	8.5
45°	9.3	8.5	7.7	7.7	6.9	6.9	6.9	6.1	6.9	6.9	6.9
47.5°	5.5	5.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.5	5.5
50°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.9	3.9
51°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.9
52°	3.1	3.1	3.1	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1
53°	2.3	3.1	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1
54°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
57.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1



TEST NUMBER: P1212478

CATALOG NUMBER: LDSQA6A25930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.3	2.3	3.1	3.1
64°	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.3	2.3	2.3	3.1
65°	2.3	2.3	3.1	3.1	3.1	3.1	2.3	2.3	2.3	2.3	3.1
66°	2.3	2.3	3.1	3.1	3.1	3.1	3.1	2.3	2.3	3.1	3.1
67.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	2.3	3.1	3.1	3.1
70°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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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TEST NUMBER: P1212478

CATALOG NUMBER: LDSQA6A25930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	107.3	106.7	105.9	105.9	99.6	96.6	92.7	92.7
5°	105.9	105.1	103.5	102.0	91.9	87.2	82.7	81.9
7.5°	102.8	100.4	98.2	96.6	84.2	78.9	74.2	73.4
10°	96.6	93.5	91.1	89.6	76.5	71.0	67.2	67.2
11°	93.5	90.4	88.0	85.8	72.6	68.0	64.9	64.9
12°	90.4	87.2	84.2	82.7	69.6	65.7	62.6	61.8
13°	87.2	83.4	81.1	78.9	66.5	62.6	60.2	60.2
14°	84.2	80.3	77.3	74.9	63.3	59.5	58.0	58.0
15°	79.5	75.7	73.4	71.0	59.5	57.2	55.6	56.4
17.5°	68.8	65.7	63.3	61.0	51.7	50.9	50.9	51.7
20°	58.7	55.6	53.3	51.7	44.8	45.6	46.4	47.9
21°	54.8	51.7	49.5	47.9	42.4	43.2	44.8	46.4
22°	50.9	48.7	46.4	44.8	40.2	41.0	43.2	44.8
23°	47.1	44.8	43.2	41.8	37.9	39.4	41.8	43.2
24°	44.0	41.8	40.2	38.6	35.5	37.1	40.2	41.8
25°	41.0	38.6	37.1	36.3	33.2	35.5	38.6	40.2
26°	37.9	36.3	34.7	34.0	31.7	34.0	37.1	39.4
27°	34.7	33.2	32.5	31.7	29.4	32.5	35.5	37.9
28°	32.5	30.9	30.2	29.4	27.8	30.9	34.7	36.3
29°	30.2	28.6	27.8	27.0	26.3	29.4	33.2	35.5
30°	27.8	27.0	25.5	25.5	24.7	28.6	31.7	34.0
31°	25.5	24.7	23.9	23.1	23.1	27.0	30.9	33.2
32°	23.9	23.1	22.3	21.7	22.3	25.5	29.4	32.5
33°	21.7	20.9	20.9	20.1	20.9	24.7	28.6	31.7
34°	19.3	19.3	18.5	18.5	20.1	23.9	27.8	30.2
35°	17.8	17.0	17.0	17.0	19.3	22.3	27.0	29.4
36°	16.2	16.2	15.4	15.4	18.5	21.7	26.3	28.6
37°	14.6	14.6	14.6	14.0	17.0	20.9	24.7	27.8
38°	13.2	13.2	13.2	13.2	16.2	20.1	24.7	27.8
39°	11.6	11.6	12.4	12.4	15.4	19.3	23.1	27.0
40°	10.8	10.8	10.8	10.8	14.6	18.5	22.3	26.3
42.5°	8.5	8.5	9.3	9.3	13.2	17.0	20.9	23.9
45°	6.9	6.9	7.7	7.7	11.6	15.4	18.5	22.3
47.5°	5.5	5.5	6.1	6.1	10.1	14.0	17.0	20.1
50°	3.9	4.7	4.7	5.5	9.3	12.4	14.6	17.8
51°	3.9	3.9	4.7	4.7	8.5	11.6	14.0	17.0
52°	3.9	3.9	4.7	4.7	7.7	10.8	13.2	15.4
53°	3.1	3.9	3.9	4.7	7.7	10.8	12.4	14.6
54°	3.1	3.1	3.9	3.9	7.7	10.1	12.4	13.2
55°	3.1	3.1	3.9	3.9	6.9	10.1	11.6	12.4
57.5°	3.1	3.1	3.1	3.1	6.1	8.5	10.1	10.1
60°	3.1	3.1	3.1	3.1	6.1	7.7	9.3	6.9



TEST NUMBER: P1212478

CATALOG NUMBER: LDSQA6A25930D010TE LARL15SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.1	3.1	3.1	3.1	5.5	6.9	6.9	5.5
64°	3.1	3.1	3.1	3.1	5.5	6.9	6.9	5.5
65°	3.1	3.1	3.1	3.1	5.5	6.1	6.1	4.7
66°	3.1	3.1	3.1	3.1	5.5	6.1	6.1	4.7
67.5°	3.1	3.1	3.1	3.1	4.7	5.5	5.5	4.7
70°	3.1	3.1	3.1	3.1	4.7	5.5	4.7	3.9
72.5°	3.1	3.1	3.1	3.1	4.7	4.7	3.9	3.1
75°	3.1	3.1	3.1	3.1	3.9	3.9	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.9	3.9	3.1	2.3
80°	3.1	3.1	3.1	3.1	3.9	3.1	2.3	1.6
82.5°	3.1	3.1	3.1	3.1	3.1	2.3	1.6	1.6
85°	3.1	3.1	3.1	3.1	3.1	2.3	1.6	0.8
87.5°	3.1	3.1	3.1	3.1	3.1	2.3	0.8	0.8
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

Cooper Lighting Solutions Photometric Lab

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— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





61°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1
62°	2.3	2.3	2.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

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Scaled Data Report





61°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	1.6	1.6	2.3	2.3
62°	2.3	2.3	2.3	2.3	2.3	2.3	1.6	1.6	1.6	2.3	2.3

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Scaled Data Report





61°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1
62°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

Classified

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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°	3.1	3.1	3.1	3.1	5.5	7.7	8.5	6.1
62°	3.1	3.1	3.1	3.1	5.5	6.9	7.7	5.5

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)