

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: P1212480

Luminaire Tested: **LDSQA6A25930D010TE 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: P1212480
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: LDSQA6A25930D010TE 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

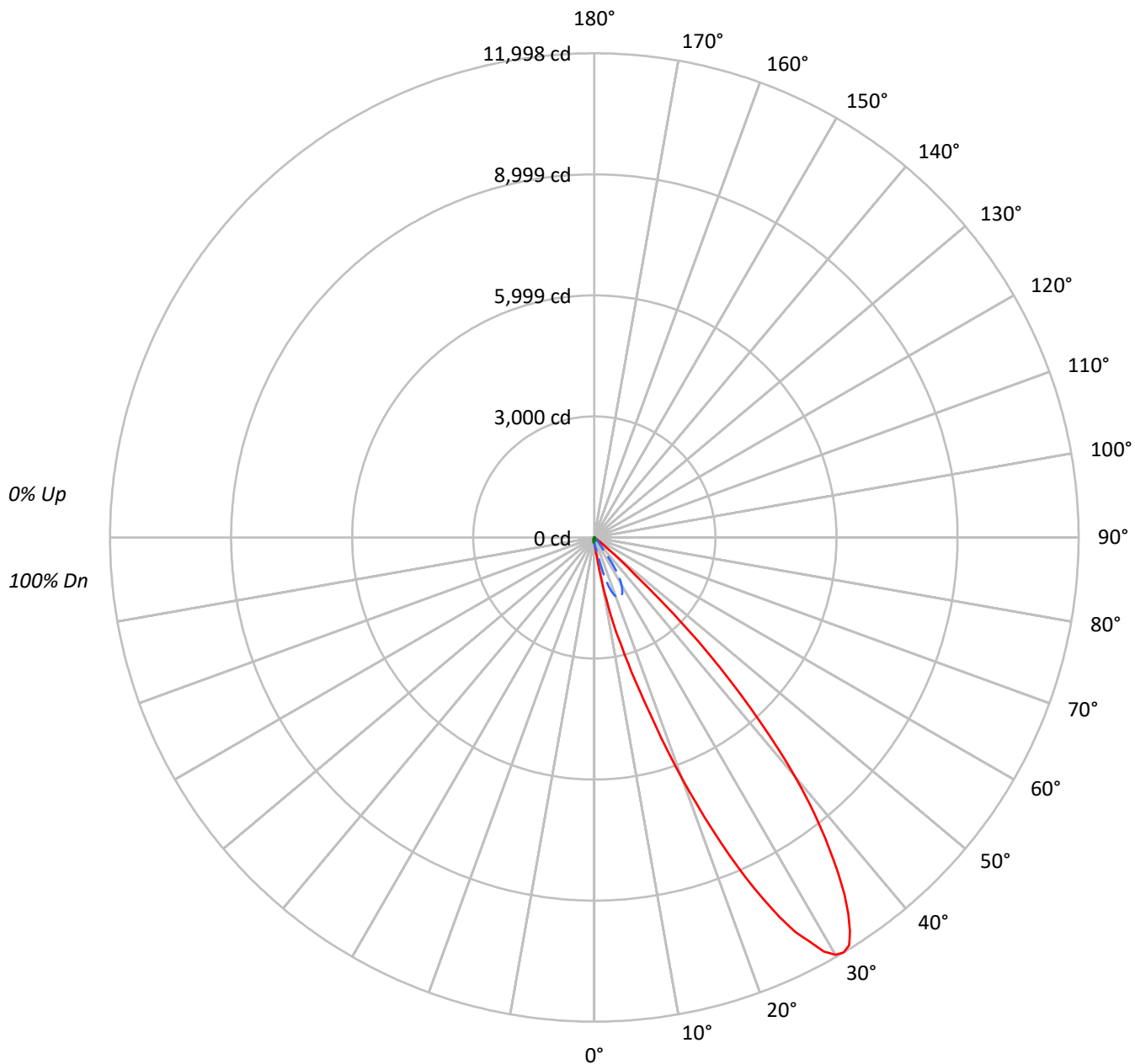
Lumens per Lamp: N/A
Luminaire Lumens: 2093.9 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.63 / 1.23
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6079	6079	6079
5°	12136	5891	3989
10°	54571	5159	2982
15°	143066	4221	2394
20°	291289	3198	2025
25°	468710	2361	1710
30°	593688	1670	1516
35°	567914	1099	1351
40°	435455	674	1265
45°	221469	438	1175
50°	33960	322	1025
55°	4451	300	721
60°	482	276	482
65°	82	326	408
70°	101	504	504
75°	0	665	399
80°	0	793	397
85°	0	1581	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	0.9
10°-20°	207.0	9.9
20°-30°	677.9	32.4
30°-40°	825.2	39.4
40°-50°	335.2	16.0
50°-60°	19.9	1.0
60°-70°	3.9	0.2
70°-80°	3.4	0.2
80°-90°	2.4	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°	903.8	43.2
0°-40°	1729.0	82.6
0°-60°	2084.2	99.5
0°-90°	2093.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	141	141	141	141	141	
5°	281	214	136	101	92	53
15°	3210	1070	95	58	54	1044
25°	9866	1592	50	34	36	4534
35°	10805	636	21	20	26	6535
45°	3637	72	7	13	19	2790
55°	59	7	4	9	10	102
65°	1	2	3	6	4	1
75°	0	2	4	5	2	0
85°	0	2	3	3	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°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	199.0	190.1	194.2	193.4	190.1	191.0	192.6	189.3	191.0	186.1	186.9
5°	280.8	268.0	275.2	267.2	271.2	267.2	267.2	262.3	258.3	257.5	253.5
7.5°	490.1	458.8	468.4	434.0	439.6	428.4	417.9	406.7	387.4	377.9	357.0
10°	1248.2	1160.0	1180.8	1105.4	1103.8	1077.3	1028.4	994.7	923.3	872.7	800.5
11°	1578.7	1518.6	1536.9	1454.4	1450.4	1414.3	1356.5	1266.7	1226.5	1159.2	1069.3
12°	2010.3	1909.2	1920.5	1829.8	1821.0	1772.9	1707.9	1597.2	1549.1	1467.3	1361.4
13°	2402.5	2312.7	2313.5	2214.8	2204.5	2143.4	2072.0	1938.1	1884.3	1792.8	1665.3
14°	2762.8	2694.6	2680.9	2627.9	2571.8	2500.4	2425.0	2273.4	2214.1	2111.4	1965.3
15°	3209.6	3076.4	3050.0	2983.3	2915.2	2825.3	2733.0	2559.9	2494.0	2381.0	2235.7
17.5°	4527.6	4363.2	4291.0	4155.3	4027.0	3854.6	3654.8	3347.6	3196.0	2993.0	2766.0
20°	6357.4	6098.3	5953.1	5735.8	5528.7	5246.3	4901.4	4417.7	4193.1	3799.9	3427.8
21°	7081.7	6858.8	6676.7	6432.0	6187.3	5852.8	5442.9	4931.1	4584.5	4124.9	3688.5
22°	7813.4	7601.6	7389.1	7120.3	6846.7	6456.1	5983.5	5390.0	4973.7	4436.9	3934.0
23°	8533.8	8318.8	8155.2	7786.9	7475.7	7035.3	6511.4	5832.7	5349.0	4733.7	4165.0
24°	9225.3	8990.1	8786.4	8415.0	8062.9	7572.8	7008.8	6262.7	5711.7	5016.9	4379.2
25°	9866.2	9607.1	9356.8	8975.0	8592.3	8057.3	7447.6	6651.9	6042.2	5273.6	4574.1
26°	10455.8	10102.0	9830.0	9477.2	9042.4	8480.7	7833.4	6988.0	6326.9	5487.8	4727.4
27°	10966.8	10609.0	10297.0	9919.1	9433.8	8828.9	8152.0	7229.3	6552.4	5648.2	4834.0
28°	11338.2	11035.8	10676.4	10269.7	9736.3	9068.9	8367.7	7421.9	6687.9	5731.6	4878.2
29°	11732.1	11388.0	10969.2	10507.1	9926.3	9219.6	8486.5	7522.2	6744.0	5750.9	4869.3
30°	11941.5	11624.6	11132.1	10628.3	10008.1	9267.7	8512.1	7537.4	6726.3	5704.4	4811.5
31°	11997.7	11701.6	11156.2	10630.7	9982.4	9220.5	8448.7	7458.8	6631.0	5596.1	4704.1
32°	11916.7	11620.6	11054.3	10528.0	9864.6	9088.0	8309.2	7318.5	6475.4	5434.1	4550.9
33°	11625.4	11385.6	10839.2	10333.0	9684.9	8891.6	8103.8	7089.8	6233.0	5223.8	4366.4
34°	11253.1	11029.4	10525.6	10006.5	9400.2	8622.0	7820.5	6813.1	5954.7	4965.6	4147.3
35°	10804.8	10584.1	10119.7	9603.9	9023.1	8263.4	7458.0	6465.7	5625.8	4673.6	3904.3
36°	10276.1	10046.7	9617.5	9126.6	8597.9	7830.2	7028.8	6066.3	5251.9	4355.9	3644.3
37°	9694.5	9463.5	9080.0	8625.2	8102.2	7342.5	6548.3	5625.8	4857.3	4026.2	3372.5
38°	9080.8	8865.9	8517.7	8063.7	7546.3	6800.2	6022.9	5223.0	4455.4	3692.5	3097.3
39°	8451.1	8224.9	7896.7	7450.8	6942.2	6205.8	5474.9	4760.2	4108.9	3364.4	2844.6
40°	7747.6	7534.2	7153.9	6804.3	6294.0	5592.9	4926.3	4249.2	3723.7	3049.2	2615.2
42.5°	5730.8	5564.1	5361.1	5002.5	4625.5	4122.5	3656.4	3187.1	2805.2	2422.6	2104.2
45°	3637.2	3514.4	3410.1	3187.1	3034.7	2751.5	2510.9	2271.0	2090.5	1889.9	1536.2
47.5°	1346.1	1288.4	1251.4	1153.5	1144.7	1054.0	1045.2	1160.8	1228.9	1156.7	870.4
50°	507.0	492.5	483.7	453.3	432.4	390.6	359.4	336.1	288.7	255.9	229.4
51°	332.9	322.5	307.2	304.8	296.1	272.8	258.3	253.5	221.4	186.9	160.4
52°	211.7	205.4	195.8	196.6	191.8	177.3	172.5	179.7	162.8	143.6	124.4
53°	133.1	129.9	123.6	123.6	122.8	113.0	111.5	118.0	114.8	105.9	94.7
54°	86.6	85.8	80.2	81.0	81.0	75.4	74.6	77.0	76.2	73.0	67.4
55°	59.3	58.5	57.7	55.3	53.7	52.1	52.1	52.9	52.1	50.5	47.3
57.5°	20.9	20.1	20.9	20.1	20.1	20.9	20.1	21.7	22.5	22.5	20.9
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.2	8.0	8.0	8.0



TEST NUMBER: P1212480

CATALOG NUMBER: LDSQA6A25930D010TE LARL20NF 6LSQA1H 30°

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	0.8	1.6	1.6	1.6
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	184.5	185.3	182.1	181.3	180.5	176.5	174.1	171.7	169.3	165.2	166.9
5°	247.1	247.1	239.8	235.0	232.6	223.8	219.8	214.1	207.7	203.0	200.6
7.5°	345.0	339.3	323.3	311.2	304.0	286.3	276.0	260.7	251.9	242.3	236.6
10°	731.6	693.9	615.3	559.1	506.2	442.0	383.4	337.7	308.0	286.3	272.8
11°	985.9	936.2	835.9	758.1	689.1	597.6	507.8	422.0	360.2	322.5	294.5
12°	1265.1	1200.9	1080.5	984.3	900.0	785.4	670.6	557.5	468.4	397.9	340.1
13°	1555.4	1472.8	1333.2	1222.5	1125.4	993.1	856.8	721.1	612.9	516.6	429.2
14°	1843.4	1742.4	1589.1	1461.5	1352.5	1204.8	1050.0	899.2	772.5	651.4	544.6
15°	2105.0	1994.2	1859.5	1692.7	1574.7	1385.3	1239.4	1070.1	925.7	785.4	661.0
17.5°	2574.2	2425.0	2266.2	2093.7	1981.4	1794.6	1609.2	1404.6	1229.7	1055.8	888.8
20°	3090.0	2823.7	2562.2	2305.6	2142.6	1943.7	1762.4	1560.2	1375.8	1178.4	997.1
21°	3292.9	2988.1	2669.7	2381.8	2197.2	1984.6	1797.0	1587.5	1393.4	1183.3	992.3
22°	3485.5	3121.4	2763.6	2445.9	2244.5	2027.2	1825.0	1605.2	1398.2	1177.6	977.8
23°	3661.2	3249.7	2850.2	2502.0	2279.1	2048.1	1839.4	1612.4	1395.8	1164.8	956.3
24°	3820.8	3367.6	2924.0	2543.8	2299.8	2054.5	1837.8	1606.8	1383.7	1145.5	926.5
25°	3958.9	3460.7	2977.7	2566.2	2305.6	2051.3	1829.8	1592.4	1359.7	1112.7	892.0
26°	4063.2	3520.0	3003.4	2569.4	2297.4	2040.8	1811.3	1565.9	1322.0	1068.5	845.5
27°	4123.3	3541.7	3003.4	2555.7	2281.5	2021.5	1781.7	1525.0	1273.1	1014.0	787.8
28°	4133.8	3532.1	2981.7	2527.7	2251.0	1987.8	1738.3	1472.8	1215.4	949.0	724.3
29°	4106.4	3493.5	2935.2	2479.5	2206.1	1944.5	1682.2	1407.0	1146.3	877.7	658.6
30°	4039.1	3423.0	2866.3	2418.6	2152.3	1887.5	1611.6	1334.0	1068.5	803.9	583.2
31°	3934.0	3321.1	2778.0	2344.8	2085.7	1819.4	1533.8	1249.8	981.1	712.3	501.4
32°	3794.4	3178.3	2680.1	2260.6	2011.9	1741.5	1436.7	1142.3	865.6	600.9	406.7
33°	3630.0	3038.7	2571.0	2169.9	1931.7	1634.8	1302.7	981.9	724.3	476.5	308.0
34°	3442.2	2888.8	2453.8	2074.5	1826.6	1478.4	1136.0	816.6	569.5	348.2	217.5
35°	3234.4	2729.0	2331.2	1962.1	1660.5	1287.6	945.0	636.1	412.3	235.8	163.6
36°	3013.0	2550.1	2190.8	1801.8	1461.5	1073.3	742.8	458.1	273.6	175.7	141.2
37°	2804.4	2394.5	2045.5	1600.4	1237.0	849.5	542.2	305.6	199.8	153.2	125.2
38°	2608.0	2244.5	1856.3	1377.3	1006.0	636.9	357.0	225.4	173.3	134.7	110.7
39°	2424.2	2093.7	1634.8	1138.3	774.9	449.3	259.1	193.4	150.8	119.6	97.9
40°	2246.9	1878.0	1393.4	928.1	564.7	313.6	218.3	170.9	133.1	105.1	82.6
42.5°	1685.4	1206.4	771.7	422.8	265.5	204.6	155.6	120.4	88.2	65.0	49.7
45°	1058.1	613.7	331.3	237.4	185.3	138.7	101.1	72.2	52.9	39.4	31.3
47.5°	481.3	263.9	205.4	158.8	119.6	82.6	59.3	43.4	32.1	24.9	18.5
50°	176.5	150.0	122.0	90.7	65.8	47.3	34.4	25.7	19.3	14.5	10.4
51°	137.9	120.4	97.1	68.2	52.1	38.6	28.1	20.9	15.3	11.2	8.0
52°	108.3	95.5	74.6	52.9	41.0	30.5	22.5	16.1	11.2	8.8	6.4
53°	83.4	73.0	56.1	41.0	32.1	24.1	17.7	12.9	8.8	6.4	4.8
54°	61.7	53.7	41.8	31.3	24.9	18.5	12.9	9.6	6.4	4.8	4.0
55°	44.2	39.4	31.3	24.9	19.3	14.5	9.6	7.2	4.8	3.2	3.2
57.5°	18.5	17.7	14.5	12.0	9.6	7.2	4.8	3.2	3.2	2.4	3.2
60°	7.2	7.2	6.4	4.8	4.0	3.2	2.4	2.4	2.4	2.4	2.4



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CATALOG NUMBER: LDSQA6A25930D010TE LARL20NF 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	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2
64°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	3.2
65°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2
66°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2
67.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2
70°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2
72.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
75°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
77.5°	0.8	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.2	3.2	3.2
80°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
82.5°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
85°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
87.5°	0.8	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
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: P1212480

CATALOG NUMBER: LDSQA6A25930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	164.4	164.4	158.8	157.2	156.4	154.8	150.8	150.8	148.4	145.2	143.6
5°	195.0	193.4	184.5	179.7	175.7	170.9	162.8	159.6	154.8	150.0	146.0
7.5°	224.6	219.1	205.4	198.2	192.6	184.5	174.1	166.9	158.8	150.8	145.2
10°	254.3	243.1	223.8	211.7	201.4	190.1	177.3	169.3	158.8	148.4	140.4
11°	266.3	251.9	230.2	214.9	203.0	190.1	177.3	166.9	157.2	146.8	137.9
12°	289.5	262.3	236.6	219.8	204.6	190.1	175.7	164.4	154.0	143.6	134.7
13°	336.9	286.3	243.9	223.8	206.9	190.1	174.1	162.0	150.8	140.4	130.7
14°	422.8	336.1	263.1	227.8	207.7	190.1	172.5	158.0	146.8	135.5	126.7
15°	519.8	412.3	302.4	242.3	208.5	188.5	169.3	154.0	142.0	130.7	122.0
17.5°	721.1	576.8	428.4	314.4	228.6	183.7	157.2	142.0	128.3	117.2	106.7
20°	803.1	635.3	468.4	336.9	236.6	175.7	143.6	127.5	113.0	101.9	93.1
21°	792.5	624.2	456.5	321.7	221.4	164.4	136.3	121.2	107.5	95.5	87.4
22°	770.9	597.6	428.4	293.7	203.0	153.2	129.9	113.8	101.1	89.9	81.8
23°	742.0	559.9	396.3	263.9	183.7	142.8	123.6	107.5	95.5	84.2	77.0
24°	706.0	522.3	359.4	234.2	165.2	134.7	116.4	101.1	89.1	79.4	72.2
25°	665.8	482.9	320.1	209.3	154.0	126.7	108.3	93.9	83.4	74.6	67.4
26°	616.9	436.4	283.2	186.1	140.4	118.0	100.3	87.4	77.8	69.8	62.5
27°	560.7	388.2	242.3	162.0	129.1	109.1	93.1	81.8	73.0	65.0	57.7
28°	510.2	334.5	207.7	144.4	120.4	100.3	86.6	76.2	68.2	60.1	53.7
29°	446.9	283.2	177.3	130.7	110.7	93.9	80.2	70.6	62.5	54.5	48.9
30°	383.4	234.2	151.6	119.6	101.1	85.8	73.8	65.0	56.9	50.5	45.8
31°	317.6	194.2	133.1	109.9	92.3	79.4	68.2	60.1	52.1	46.6	41.8
32°	243.1	158.8	118.8	99.5	84.2	71.4	62.5	54.5	47.3	42.6	37.6
33°	182.9	133.9	107.5	89.9	76.2	65.8	56.9	48.9	43.4	38.6	34.4
34°	146.0	119.6	97.1	81.0	69.0	59.3	50.5	44.2	38.6	34.4	30.5
35°	128.3	107.5	86.6	73.0	61.7	52.1	45.0	39.4	34.4	30.5	27.3
36°	113.8	96.3	77.0	65.0	53.7	45.8	39.4	34.4	29.7	26.5	24.1
37°	101.9	85.0	68.2	56.1	46.6	40.2	34.4	29.7	25.7	23.3	21.7
38°	91.5	73.0	57.7	48.1	40.2	34.4	29.7	25.7	22.5	20.1	18.5
39°	77.8	61.7	48.1	41.0	33.6	28.9	24.9	22.5	19.3	17.7	16.1
40°	65.0	51.3	40.2	33.6	28.9	24.1	21.7	18.5	16.9	15.3	13.7
42.5°	40.2	32.1	25.7	21.7	18.5	16.1	14.5	12.9	11.2	10.4	9.6
45°	24.9	20.1	16.1	13.7	11.2	10.4	9.6	8.0	8.0	7.2	7.2
47.5°	14.5	12.0	8.8	8.0	6.4	6.4	5.6	5.6	4.8	5.6	4.8
50°	8.0	5.6	4.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
51°	6.4	4.8	4.0	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0
52°	4.8	4.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
53°	4.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
54°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
55°	3.2	3.2	3.2	3.2	3.2	2.4	3.2	3.2	3.2	3.2	3.2
57.5°	3.2	3.2	2.4	2.4	3.2	2.4	3.2	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



TEST NUMBER: P1212480

CATALOG NUMBER: LDSQA6A25930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
63°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
64°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
66°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	4.0	4.0	4.0	4.0	3.2	3.2	3.2	3.2
72.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.2
75°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P1212480

CATALOG NUMBER: LDSQA6A25930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2
2.5°	142.8	142.8	142.0	140.4	128.3	118.0	111.5	110.7
5°	143.6	142.0	138.7	136.3	114.8	101.1	93.1	92.3
7.5°	140.4	137.1	133.1	128.3	101.9	87.4	80.2	78.6
10°	134.7	129.1	124.4	118.0	89.9	76.2	69.8	68.2
11°	130.7	125.2	120.4	113.8	85.0	72.2	65.8	65.0
12°	127.5	121.2	114.8	109.1	80.2	68.2	62.5	61.7
13°	122.8	116.4	110.7	104.3	76.2	65.0	59.3	58.5
14°	118.8	111.5	105.9	100.3	72.2	60.9	56.9	56.1
15°	113.8	106.7	100.3	94.7	68.2	57.7	54.5	53.7
17.5°	101.1	93.1	87.4	81.8	58.5	50.5	48.1	48.9
20°	85.8	79.4	74.6	69.8	49.7	44.2	43.4	44.2
21°	80.2	74.6	70.6	65.8	46.6	41.8	41.8	42.6
22°	75.4	69.8	65.8	60.9	44.2	39.4	39.4	41.0
23°	70.6	65.0	60.9	56.9	41.0	37.6	37.6	39.4
24°	65.8	60.9	56.9	52.9	38.6	35.2	36.0	37.6
25°	60.9	56.9	52.9	49.7	36.0	33.6	34.4	36.0
26°	57.7	52.9	49.7	45.8	33.6	32.1	32.9	35.2
27°	52.9	48.9	45.8	42.6	32.1	30.5	32.1	33.6
28°	49.7	45.8	42.6	39.4	29.7	28.9	30.5	32.9
29°	45.8	42.6	39.4	36.8	28.1	27.3	29.7	31.3
30°	41.8	38.6	36.0	33.6	26.5	25.7	28.1	30.5
31°	38.6	36.0	33.6	31.3	24.9	24.9	27.3	29.7
32°	35.2	32.9	30.5	28.1	23.3	23.3	26.5	28.1
33°	32.1	29.7	27.3	25.7	21.7	22.5	24.9	27.3
34°	28.1	26.5	24.9	23.3	20.1	20.9	24.1	26.5
35°	25.7	24.1	22.5	20.9	19.3	20.1	23.3	25.7
36°	22.5	21.7	20.1	19.3	17.7	19.3	22.5	24.9
37°	20.1	19.3	17.7	16.9	16.9	18.5	21.7	24.1
38°	17.7	16.9	16.1	15.3	16.1	17.7	20.9	23.3
39°	15.3	14.5	14.5	13.7	15.3	16.9	20.1	22.5
40°	13.7	12.9	12.9	12.0	14.5	16.1	19.3	22.5
42.5°	9.6	9.6	9.6	9.6	12.0	14.5	17.7	20.9
45°	7.2	7.2	7.2	7.2	10.4	12.9	15.3	19.3
47.5°	5.6	5.6	5.6	5.6	9.6	12.0	14.5	16.9
50°	4.0	4.0	4.8	4.8	8.8	10.4	12.9	15.3
51°	4.0	4.0	4.0	4.8	8.0	10.4	12.0	14.5
52°	4.0	4.0	4.0	4.0	8.0	9.6	11.2	12.9
53°	3.2	4.0	4.0	4.0	7.2	9.6	10.4	12.0
54°	3.2	3.2	3.2	4.0	7.2	8.8	9.6	11.2
55°	3.2	3.2	3.2	4.0	6.4	8.8	9.6	9.6
57.5°	3.2	3.2	3.2	3.2	6.4	8.0	8.8	8.0
60°	3.2	3.2	3.2	3.2	5.6	7.2	8.0	5.6



TEST NUMBER: P1212480

CATALOG NUMBER: LDSQA6A25930D010TE LARL20NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
63°	3.2	3.2	3.2	3.2	5.6	6.4	6.4	4.8
64°	3.2	3.2	3.2	3.2	5.6	6.4	6.4	4.8
65°	3.2	3.2	3.2	3.2	5.6	5.6	5.6	4.0
66°	3.2	3.2	3.2	3.2	5.6	5.6	5.6	4.0
67.5°	3.2	3.2	3.2	3.2	5.6	5.6	4.8	4.0
70°	3.2	3.2	3.2	4.0	4.8	4.8	4.8	4.0
72.5°	3.2	3.2	3.2	4.0	4.8	4.8	4.0	3.2
75°	4.0	4.0	4.0	4.0	4.8	4.8	4.0	2.4
77.5°	4.0	4.0	4.0	4.0	4.8	4.0	3.2	2.4
80°	4.0	4.0	3.2	3.2	4.0	4.0	2.4	1.6
82.5°	4.0	4.0	3.2	3.2	4.0	3.2	2.4	1.6
85°	4.0	4.0	3.2	3.2	4.0	3.2	1.6	0.8
87.5°	4.0	3.2	3.2	3.2	4.0	3.2	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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Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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61°	2.4	2.4	2.4	2.4	3.2	2.4	3.2	4.0	4.8	4.8	4.8
62°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2

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61°	4.8	4.8	4.0	4.0	3.2	2.4	2.4	2.4	2.4	2.4	2.4
62°	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2

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Scaled Data Report





61°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

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Cooper Lighting Solutions Photometric Lab
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Scaled Data Report



61°	3.2	3.2	3.2	3.2	5.6	7.2	7.2	5.6
62°	3.2	3.2	3.2	3.2	5.6	6.4	7.2	4.8

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)