

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: P1219459

Luminaire Tested: **LDSQA4A15927D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26799)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15927D010TE LAR15SP 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

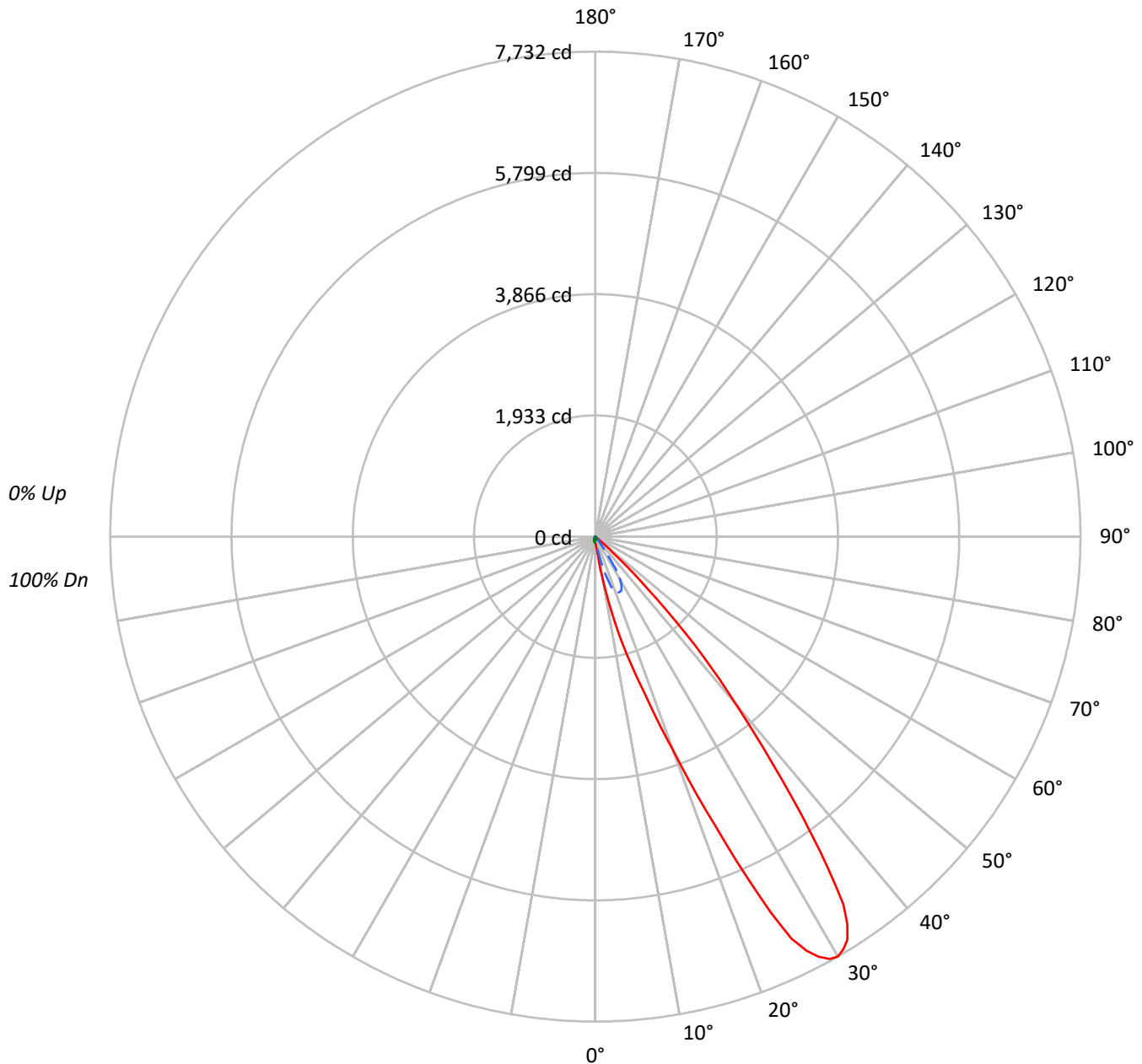
Lumens per Lamp: N/A
Luminaire Lumens: 1189.1 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9930	9930	9930
5°	16532	9365	8003
10°	70531	8214	6945
15°	195210	6519	6158
20°	374422	4619	5505
25°	705978	3078	4853
30°	864940	2058	4251
35°	768166	1384	3631
40°	437798	923	3035
45°	159690	754	2521
50°	17573	558	2140
55°	2584	422	1757
60°	601	484	1414
65°	436	573	986
70°	340	708	878
75°	449	936	711
80°	0	1395	669
85°	0	2112	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	1.1
10°-20°	128.8	10.8
20°-30°	423.2	35.6
30°-40°	464.1	39.0
40°-50°	145.0	12.2
50°-60°	7.9	0.7
60°-70°	3.2	0.3
70°-80°	2.5	0.2
80°-90°	1.5	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°	564.9	47.5
0°-40°	1029.0	86.5
0°-60°	1181.9	99.4
0°-90°	1189.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	102	102	102	102	102	
5°	170	136	96	85	82	32
15°	1946	626	65	58	61	612
25°	6605	961	29	36	45	2944
35°	6495	189	12	20	31	3797
45°	1166	20	6	12	18	1070
55°	15	4	2	7	10	24
65°	2	2	2	5	4	2
75°	1	2	2	4	2	1
85°	0	2	2	2	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
2.5°	126.4	127.7	128.3	125.2	125.8	124.6	125.8	123.4	119.1	120.3	116.6
5°	170.0	167.6	166.9	162.1	160.8	158.4	158.4	152.9	144.8	143.6	136.2
7.5°	300.8	287.9	276.8	260.3	244.3	232.1	227.1	207.5	186.0	178.0	160.8
10°	717.0	714.5	686.9	634.7	574.5	530.9	505.8	429.7	333.3	274.3	212.9
12.5°	1305.0	1292.7	1253.4	1157.7	1054.0	988.8	937.9	784.5	641.4	526.7	377.5
15°	1946.4	1896.7	1839.0	1690.4	1545.0	1460.2	1387.9	1203.7	982.1	816.9	625.5
17.5°	2631.4	2653.5	2513.6	2257.6	1999.2	1866.6	1743.9	1460.8	1218.4	1046.5	831.1
20°	3631.9	3585.3	3339.2	2915.1	2533.8	2312.2	2137.9	1729.7	1363.9	1149.7	945.8
22.5°	4984.2	4835.7	4355.6	3638.1	3033.5	2726.0	2478.6	1928.6	1486.1	1202.5	964.3
25°	6604.7	6467.2	5578.4	4333.5	3439.3	3040.9	2704.5	2055.0	1535.2	1211.1	960.6
26°	7133.7	6929.4	6029.5	4580.9	3563.8	3120.7	2760.3	2079.6	1536.4	1204.3	944.7
27°	7407.6	7247.3	6402.7	4781.6	3649.1	3171.0	2791.6	2085.7	1524.1	1189.0	920.1
28°	7588.0	7438.3	6639.0	4913.0	3692.7	3190.6	2800.8	2072.3	1496.5	1162.0	881.4
29°	7699.7	7541.9	6754.5	4972.6	3695.8	3182.1	2783.7	2036.6	1459.1	1129.4	836.6
30°	7732.2	7561.6	6757.5	4948.0	3650.3	3136.0	2735.2	1978.9	1413.6	1088.3	787.0
31°	7674.6	7498.4	6646.4	4836.2	3557.1	3046.3	2659.0	1902.9	1357.2	1044.7	710.2
32°	7578.7	7344.9	6413.8	4650.9	3429.4	2938.3	2563.9	1819.9	1297.0	989.5	602.1
33°	7375.0	7092.7	6057.7	4418.3	3275.9	2814.4	2452.8	1727.8	1239.9	894.4	447.5
34°	7068.7	6712.1	5621.3	4147.6	3102.3	2659.6	2325.1	1642.6	1180.4	768.5	306.3
35°	6495.4	6163.3	5139.5	3859.0	2915.1	2509.8	2184.5	1530.8	1099.3	616.3	189.1
36°	5854.0	5609.6	4672.4	3565.7	2723.5	2354.6	2039.7	1448.6	979.6	453.6	128.3
37°	5198.4	4981.8	4231.7	3277.2	2531.3	2182.8	1892.4	1355.3	837.2	302.6	103.2
38°	4574.2	4402.3	3813.0	2993.6	2331.8	2002.9	1737.7	1255.9	683.8	194.5	84.7
39°	4000.9	3872.0	3403.0	2719.2	2131.8	1826.7	1589.1	1130.7	521.7	138.7	70.6
40°	3461.9	3371.0	3007.7	2448.5	1932.9	1653.6	1454.7	979.0	362.1	109.9	57.1
42.5°	2354.6	2331.8	2116.4	1762.3	1435.7	1272.4	1150.3	550.6	139.3	66.3	31.9
45°	1165.6	1181.6	1095.6	1007.9	939.7	890.0	724.9	229.6	77.3	36.2	19.6
47.5°	412.5	413.1	355.4	316.7	302.6	301.4	219.1	81.0	41.1	22.1	14.2
50°	116.6	125.8	118.5	120.9	94.5	80.4	65.6	39.3	20.9	14.2	9.2
51°	71.8	77.3	72.5	74.8	65.0	58.3	49.1	29.5	16.5	11.7	8.6
52°	46.0	49.1	46.6	47.2	43.6	38.0	33.2	21.5	13.5	9.8	7.3
53°	31.3	33.2	31.3	31.3	28.8	27.0	23.4	15.9	11.1	8.0	5.5
54°	21.5	22.1	22.1	22.1	20.3	19.0	16.5	12.3	9.2	7.3	5.0
55°	15.3	15.9	15.3	15.3	14.8	13.5	12.3	9.2	7.3	6.1	3.7
57.5°	6.7	6.7	6.7	7.3	6.7	6.7	6.1	5.5	5.0	3.7	2.5
60°	3.1	3.1	3.1	3.1	3.7	3.7	3.7	3.7	3.1	2.5	2.5
61°	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.1	2.5	2.5	1.9
62°	1.9	1.9	1.9	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9
63°	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	1.9	1.9	1.9
64°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.9	1.2	1.2	1.2	1.2	1.9	1.9	1.9	1.9	1.9	1.9
66°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9
77.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.9
80°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.9
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.9
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.9
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
2.5°	114.1	113.6	110.5	107.4	108.0	106.8	105.5	103.8	102.5	99.4	99.4
5°	130.1	127.0	120.3	114.1	113.6	111.1	107.4	103.8	100.7	96.3	95.1
7.5°	148.5	140.0	128.9	119.1	117.2	113.6	106.8	101.9	96.3	90.9	89.0
10°	174.9	154.6	135.6	120.9	117.2	111.7	103.2	96.3	90.2	83.5	81.0
12.5°	268.9	190.9	144.2	120.9	114.1	107.4	97.0	89.0	81.7	74.2	71.8
15°	448.1	305.0	183.0	120.9	108.6	100.7	87.8	79.8	71.8	65.0	62.6
17.5°	618.8	434.0	254.7	136.2	109.3	92.7	76.7	68.1	61.4	54.6	52.8
20°	717.6	505.8	302.0	151.6	108.0	83.5	65.6	56.4	49.7	44.8	43.0
22.5°	730.4	508.9	291.6	135.6	90.9	69.4	54.6	46.0	40.5	36.2	34.9
25°	696.1	449.4	233.2	96.3	67.5	56.4	43.0	36.8	32.6	28.8	28.2
26°	669.6	413.7	203.1	79.8	59.5	50.3	38.7	33.2	29.5	26.4	25.7
27°	632.2	375.7	173.7	66.3	52.8	45.4	34.4	30.1	27.0	24.0	24.0
28°	589.8	334.5	140.0	55.8	47.2	40.5	31.3	27.0	24.0	22.1	22.1
29°	539.0	275.0	102.5	48.5	41.8	35.6	27.6	24.0	21.5	20.3	20.3
30°	463.4	199.5	70.6	42.4	36.2	31.3	24.6	21.5	19.6	18.4	18.4
31°	362.1	122.8	55.2	36.8	31.9	27.6	22.1	19.0	17.8	16.5	17.2
32°	246.7	76.7	47.2	31.9	28.2	24.0	19.6	17.2	15.9	15.3	15.3
33°	140.6	63.9	41.1	27.6	24.0	20.9	17.2	15.3	14.8	14.2	14.2
34°	93.3	54.6	35.6	23.4	19.6	17.8	14.8	13.5	12.9	12.9	12.9
35°	78.6	47.2	28.8	19.6	17.2	15.3	12.9	12.3	11.7	11.7	12.3
36°	66.3	39.3	23.4	16.5	14.8	13.5	11.7	11.1	10.4	10.4	11.1
37°	55.8	31.3	19.6	14.2	12.3	11.7	10.4	9.8	9.8	9.8	10.4
38°	45.4	25.1	16.5	12.3	11.1	9.8	9.2	8.6	8.6	9.2	9.8
39°	35.6	20.3	13.5	10.4	9.2	8.6	8.0	8.0	8.0	8.0	8.6
40°	28.2	17.2	11.7	9.2	8.0	8.0	7.3	6.7	7.3	7.3	8.6
42.5°	17.8	12.3	8.6	6.7	6.1	6.1	5.5	5.5	5.5	6.1	6.7
45°	12.9	9.8	6.7	5.5	5.0	4.3	4.3	4.3	5.0	5.5	6.1
47.5°	9.8	6.7	5.0	3.7	3.1	3.1	3.1	3.1	3.7	4.3	5.0
50°	6.7	4.3	3.1	2.5	2.5	2.5	2.5	2.5	3.1	3.7	4.3
51°	5.5	3.7	3.1	2.5	2.5	1.9	1.9	2.5	3.1	3.1	3.7
52°	4.3	3.1	2.5	1.9	1.9	1.9	1.9	2.5	2.5	3.1	3.7
53°	3.7	3.1	2.5	1.9	1.9	1.9	1.9	1.9	2.5	3.1	3.7
54°	3.1	2.5	1.9	1.9	1.9	1.9	1.9	1.9	2.5	3.1	3.7
55°	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
57.5°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	3.1
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	3.1
61°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	3.1
62°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	3.1
63°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
64°	1.9	1.9	1.9	1.9	2.5	2.5	1.9	1.9	2.5	2.5	3.1
65°	1.9	1.9	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5	3.1
66°	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5	3.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	2.5	2.5	2.5
75°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5
80°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5
82.5°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	2.5
85°	1.9	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.9	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
2.5°	98.2	96.3	95.1	94.5	95.1	94.0	92.1	92.7	92.1	91.5	91.5
5°	93.3	90.2	89.0	88.4	88.4	87.8	85.3	85.9	85.3	84.7	84.7
7.5°	86.5	84.1	82.3	81.7	81.7	81.0	78.6	79.8	78.6	77.9	78.6
10°	78.6	76.1	75.5	74.2	74.2	73.7	71.8	72.5	71.8	71.8	71.8
12.5°	70.0	67.5	66.9	66.3	66.9	66.3	64.4	65.6	65.0	65.0	65.6
15°	60.8	58.9	58.9	58.3	58.9	58.3	57.7	58.3	58.3	58.3	59.5
17.5°	51.6	50.3	50.3	49.7	50.3	50.3	49.7	51.6	51.6	52.8	54.1
20°	42.4	41.1	41.8	41.8	43.0	43.0	43.0	44.8	45.4	46.6	48.5
22.5°	34.9	34.4	34.9	34.9	36.2	36.8	36.8	38.7	40.5	41.8	43.6
25°	28.2	28.2	29.5	29.5	30.1	31.3	31.9	34.4	35.6	36.8	38.7
26°	26.4	26.4	27.0	27.6	28.2	29.5	30.1	32.6	33.8	34.9	36.8
27°	24.0	24.0	25.1	25.7	26.4	27.6	28.8	30.7	31.9	33.8	34.9
28°	22.1	22.1	23.4	24.0	24.6	26.4	27.0	28.8	30.1	31.9	33.8
29°	20.3	20.9	22.1	22.1	23.4	24.6	25.1	27.6	28.8	30.1	31.9
30°	19.0	19.6	20.3	20.9	21.5	22.7	24.0	25.7	27.0	28.2	30.1
31°	17.8	18.4	19.0	19.6	20.3	21.5	22.7	24.6	25.7	27.0	28.8
32°	16.5	16.5	17.8	18.4	19.0	20.3	21.5	23.4	24.6	25.7	27.6
33°	15.3	15.9	16.5	17.2	17.8	19.0	20.3	21.5	22.7	24.6	26.4
34°	14.2	14.8	15.9	16.5	17.2	18.4	19.0	20.3	21.5	23.4	24.6
35°	12.9	14.2	14.8	15.3	15.9	17.2	17.8	19.6	20.3	22.1	23.4
36°	12.3	12.9	14.2	14.8	15.3	15.9	16.5	18.4	19.6	20.9	22.1
37°	11.1	12.3	12.9	13.5	14.2	15.3	15.9	17.2	18.4	19.6	20.9
38°	10.4	11.1	12.3	12.9	13.5	14.2	14.8	16.5	17.2	18.4	19.6
39°	9.8	10.4	11.7	12.3	12.3	13.5	14.2	15.3	15.9	17.2	19.0
40°	9.2	9.8	11.1	11.1	11.7	12.9	13.5	14.8	15.3	16.5	17.8
42.5°	8.0	8.6	9.2	9.8	10.4	11.1	11.7	12.9	13.5	14.2	15.3
45°	6.7	7.3	8.6	8.6	9.2	9.8	10.4	11.1	11.7	12.9	13.5
47.5°	5.5	6.7	7.3	8.0	8.0	8.6	9.2	9.8	10.4	11.1	11.7
50°	5.0	5.5	6.1	6.7	6.7	7.3	8.0	8.6	8.6	9.2	10.4
51°	5.0	5.5	6.1	6.1	6.7	7.3	7.3	8.0	8.6	8.6	9.2
52°	4.3	5.0	5.5	6.1	6.1	6.7	7.3	7.3	8.0	8.6	9.2
53°	4.3	5.0	5.5	5.5	6.1	6.7	6.7	7.3	7.3	8.0	8.6
54°	4.3	5.0	5.5	5.5	6.1	6.1	6.7	6.7	7.3	7.3	8.0
55°	3.7	4.3	5.0	5.5	5.5	6.1	6.1	6.7	6.7	7.3	7.3
57.5°	3.7	4.3	5.0	5.0	5.0	5.5	5.5	6.1	6.1	6.1	6.7
60°	3.7	4.3	4.3	5.0	5.0	5.5	5.5	5.5	5.5	6.1	6.1
61°	3.7	3.7	4.3	5.0	5.0	5.0	5.5	5.5	5.5	5.5	6.1
62°	3.7	3.7	4.3	4.3	5.0	5.0	5.0	5.5	5.5	5.5	5.5
63°	3.1	3.7	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.5	5.5
64°	3.1	3.7	4.3	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0
65°	3.1	3.7	4.3	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0
66°	3.1	3.7	4.3	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0



TEST NUMBER: P1219459

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.1	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	3.1	3.1	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.1	3.1
77.5°	2.5	2.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.5
80°	2.5	2.5	3.1	3.1	3.1	3.1	3.1	3.1	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.2
87.5°	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.2	1.2
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: P1219459

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
2.5°	92.1	90.2	89.6	89.6	90.2	89.6	90.2	89.6
5°	84.7	82.9	82.9	82.3	82.9	82.3	82.9	82.3
7.5°	78.6	76.7	76.7	76.7	76.7	76.7	77.3	76.7
10°	72.5	70.6	70.6	70.0	70.6	70.6	71.2	70.6
12.5°	66.3	65.0	65.0	64.4	65.6	65.0	66.3	65.6
15°	60.8	59.5	59.5	60.2	60.8	60.8	61.4	61.4
17.5°	55.2	55.2	55.2	55.8	56.4	57.1	57.7	57.1
20°	50.3	50.3	51.0	51.6	52.2	52.8	53.4	53.4
22.5°	45.4	45.4	46.0	47.2	48.5	49.1	49.7	49.7
25°	40.5	41.1	41.8	42.4	44.2	44.8	45.4	45.4
26°	38.7	39.3	40.5	41.1	42.4	43.0	44.2	44.2
27°	37.4	38.0	38.7	39.3	41.1	41.8	43.0	42.4
28°	35.6	36.2	36.8	38.0	39.3	40.5	41.1	41.1
29°	33.8	34.9	35.6	36.2	38.0	38.7	39.3	39.3
30°	32.6	33.2	33.8	34.9	36.2	37.4	38.0	38.0
31°	30.7	31.9	32.6	33.2	34.9	35.6	36.8	36.8
32°	29.5	30.1	30.7	31.9	33.2	34.4	34.9	34.9
33°	27.6	28.8	29.5	30.1	31.9	33.2	33.8	33.2
34°	26.4	27.6	27.6	28.8	30.1	31.3	31.9	31.9
35°	25.1	25.7	26.4	27.6	28.8	30.1	30.7	30.7
36°	24.0	24.6	25.1	26.4	27.6	28.8	29.5	29.5
37°	22.7	23.4	24.0	24.6	26.4	27.6	28.2	28.2
38°	21.5	22.1	22.7	24.0	25.1	25.7	27.0	27.0
39°	20.3	20.9	21.5	22.7	24.0	24.6	25.7	25.1
40°	19.0	20.3	20.3	21.5	22.7	23.4	24.6	24.0
42.5°	16.5	17.2	17.8	18.4	19.6	20.9	21.5	21.5
45°	14.8	15.3	15.9	16.5	17.2	17.8	19.0	18.4
47.5°	12.3	12.9	13.5	14.2	14.8	15.3	15.9	15.9
50°	11.1	11.1	11.7	11.7	12.9	13.5	14.2	14.2
51°	9.8	10.4	11.1	11.1	12.3	12.3	12.9	12.9
52°	9.8	9.8	10.4	10.4	11.1	11.7	12.3	12.3
53°	9.2	9.2	9.8	9.8	10.4	11.1	11.7	11.7
54°	8.6	8.6	9.2	9.2	9.8	10.4	11.1	11.1
55°	8.0	8.0	8.6	8.6	9.2	9.8	10.4	10.4
57.5°	6.7	7.3	7.3	8.0	8.0	8.6	8.6	9.2
60°	6.1	6.7	6.7	6.7	7.3	7.3	7.3	7.3
61°	6.1	6.1	6.1	6.7	6.7	6.1	6.7	6.1
62°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
63°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
64°	5.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.3
66°	5.0	5.0	4.3	5.0	4.3	4.3	4.3	4.3

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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TEST NUMBER: P1219459

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.1	3.1	3.1	3.1	3.1	2.5	2.5	2.5
75°	3.1	3.1	3.1	2.5	2.5	2.5	2.5	1.9
77.5°	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.2	1.2
82.5°	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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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— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9

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67.5°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	2.5	2.5	3.1
70°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	2.5	2.5	2.5

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67.5°	3.1	3.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	3.1	3.7	3.7	3.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3

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67.5°	4.3	4.3	4.3	4.3	4.3	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7	3.1	3.1	3.1

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(END OF REPORT)