

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: P1219571

Luminaire Tested: **LDSQA4A35950D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219571
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: LDSQA4A35950D010TE 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 / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

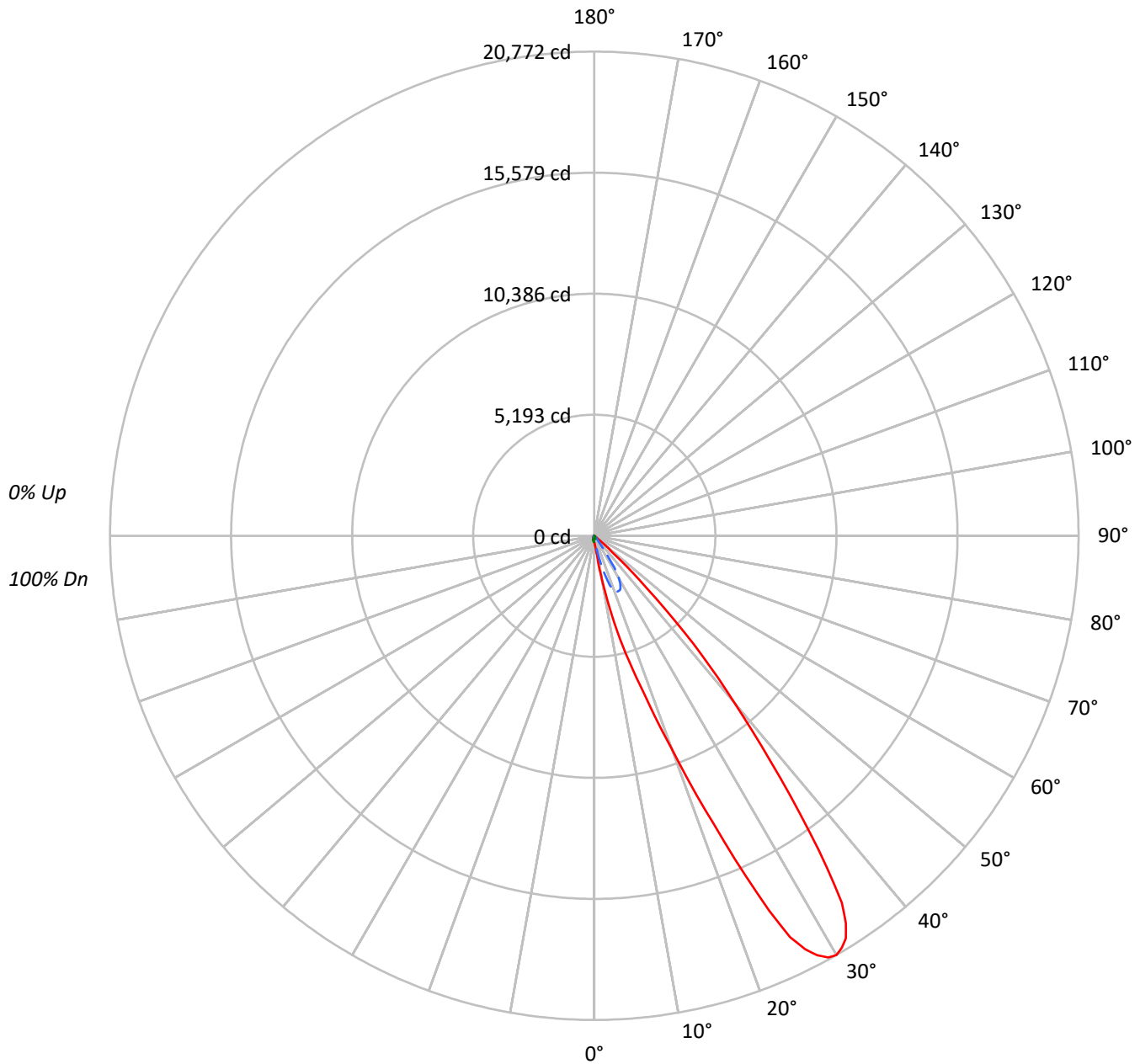
Lumens per Lamp: N/A
Luminaire Lumens: 3194.3 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26679	26679	26679
5°	44422	25177	21491
10°	189460	22055	18661
15°	524431	17521	16538
20°	1005906	12412	14794
25°	1896574	8284	13041
30°	2323656	5537	11432
35°	2063655	3702	9745
40°	1176146	2517	8144
45°	429010	2041	6782
50°	47233	1492	5727
55°	6975	1115	4729
60°	1589	1279	3856
65°	1123	1513	2613
70°	906	1869	2323
75°	1198	2470	1834
80°	0	3682	1785
85°	0	5446	1890

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	1.1
10°-20°	346.1	10.8
20°-30°	1136.9	35.6
30°-40°	1246.8	39.0
40°-50°	389.4	12.2
50°-60°	21.3	0.7
60°-70°	8.6	0.3
70°-80°	6.5	0.2
80°-90°	4.0	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°	1517.7	47.5
0°-40°	2764.5	86.5
0°-60°	3175.2	99.4
0°-90°	3194.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	275	275	275	275	275	
5°	457	366	259	229	221	85
15°	5229	1680	175	157	165	1643
25°	17743	2581	78	96	122	7909
35°	17450	508	31	54	82	10202
45°	3131	53	15	31	50	2875
55°	41	10	7	18	28	65
65°	5	5	7	13	11	4
75°	3	5	7	10	5	2
85°	0	5	5	5	2	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°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	339.8	343.0	344.7	336.4	338.1	334.8	338.1	331.3	319.9	323.2	313.4
5°	456.8	450.1	448.6	435.4	432.1	425.4	425.4	410.7	389.2	385.9	366.1
7.5°	808.0	773.3	743.7	699.2	656.3	623.3	610.2	557.4	499.6	478.2	432.1
10°	1926.0	1919.5	1845.3	1705.1	1543.6	1426.4	1358.8	1154.4	895.4	737.2	572.2
12.5°	3505.7	3472.8	3367.3	3110.0	2831.4	2656.6	2519.6	2107.4	1723.3	1414.8	1014.1
15°	5229.0	5095.5	4940.4	4541.4	4150.5	3923.0	3728.4	3233.7	2638.5	2194.8	1680.3
17.5°	7069.4	7128.7	6752.7	6065.1	5370.9	5014.6	4684.9	3924.6	3273.3	2811.5	2232.8
20°	9757.3	9631.9	8970.6	7831.1	6807.1	6211.8	5743.5	4646.8	3664.1	3088.6	2541.1
22.5°	13389.9	12990.8	11701.4	9773.6	8149.3	7323.3	6658.7	5181.2	3992.2	3230.4	2590.6
25°	17743.2	17373.9	14986.2	11642.1	9239.5	8169.1	7265.6	5520.9	4124.1	3253.4	2580.8
26°	19164.8	18615.7	16198.2	12306.5	9574.1	8383.5	7415.6	5586.8	4127.3	3235.3	2537.8
27°	19900.2	19469.7	17200.8	12845.8	9803.4	8518.7	7499.6	5603.3	4094.5	3194.0	2471.8
28°	20384.9	19982.7	17835.7	13198.6	9920.4	8571.5	7524.4	5567.0	4020.2	3121.6	2368.0
29°	20685.3	20261.3	18145.7	13358.7	9928.8	8548.5	7478.2	5471.4	3919.7	3034.1	2247.6
30°	20772.5	20314.2	18153.9	13292.7	9806.8	8424.8	7348.0	5316.5	3797.7	2923.8	2114.1
31°	20617.6	20144.3	17855.4	12992.6	9555.9	8184.1	7143.6	5111.9	3646.0	2806.6	1907.9
32°	20360.2	19732.0	17230.6	12494.6	9212.9	7893.8	6887.8	4889.2	3484.3	2658.2	1617.7
33°	19812.7	19054.3	16274.0	11869.5	8800.8	7560.8	6589.4	4641.9	3331.0	2402.6	1202.2
34°	18990.0	18031.9	15101.5	11142.4	8334.1	7145.2	6246.3	4412.8	3171.1	2064.6	822.8
35°	17449.7	16557.6	13807.1	10367.2	7831.1	6742.7	5868.8	4112.7	2953.4	1655.6	507.9
36°	15726.7	15070.2	12552.3	9579.0	7316.7	6325.5	5479.6	3891.7	2631.8	1218.6	344.7
37°	13965.4	13383.4	11368.2	8804.0	6800.6	5863.9	5083.9	3641.0	2249.2	813.0	277.1
38°	12288.4	11826.6	10243.6	8042.2	6264.6	5380.6	4668.4	3373.9	1837.0	522.7	227.6
39°	10748.3	10402.0	9142.1	7305.1	5727.0	4907.4	4269.3	3037.5	1401.7	372.7	189.7
40°	9300.4	9056.3	8080.2	6577.9	5192.8	4442.4	3908.0	2630.3	972.8	295.2	153.4
42.5°	6325.5	6264.6	5685.7	4734.3	3856.9	3418.5	3090.2	1479.2	374.3	178.0	85.7
45°	3131.4	3174.4	2943.4	2707.6	2524.6	2391.1	1947.5	616.7	207.7	97.3	52.7
47.5°	1108.1	1109.8	954.8	850.8	813.0	809.6	588.6	217.7	110.3	59.3	38.0
50°	313.4	338.1	318.2	324.9	253.9	216.1	176.5	105.6	56.1	38.0	24.8
51°	193.0	207.7	194.6	201.1	174.7	156.6	131.9	79.1	44.6	31.3	23.1
52°	123.7	131.9	125.3	127.0	117.1	102.2	89.1	57.7	36.2	26.3	19.9
53°	84.0	89.1	84.0	84.0	77.5	72.6	62.7	42.8	29.6	21.5	14.9
54°	57.7	59.3	59.3	59.3	54.4	51.1	44.6	33.0	24.8	19.9	13.3
55°	41.3	42.8	41.3	41.3	39.6	36.2	33.0	24.8	19.9	16.5	9.9
57.5°	18.1	18.1	18.1	19.9	18.1	18.1	16.5	14.9	13.3	9.9	6.6
60°	8.2	8.2	8.2	8.2	9.9	9.9	9.9	9.9	8.2	6.6	6.6
61°	6.6	6.6	6.6	6.6	6.6	8.2	8.2	8.2	6.6	6.6	4.9
62°	4.9	4.9	4.9	4.9	6.6	6.6	6.6	6.6	6.6	4.9	4.9
63°	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	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	3.2	3.2	3.2	3.2	4.9	4.9	4.9	4.9	4.9	4.9
66°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9
77.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.2	3.2	4.9
80°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.2	3.2	4.9
82.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.2	3.2	4.9
85°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.2	3.2	4.9
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.2	3.2	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	306.6	305.0	296.8	288.6	290.3	286.9	283.6	278.6	275.4	267.2	267.2
5°	349.5	341.3	323.2	306.6	305.0	298.5	288.6	278.6	270.4	258.9	255.5
7.5°	399.0	376.0	346.3	319.9	315.0	305.0	286.9	273.7	258.9	244.1	239.2
10°	470.0	415.6	364.5	324.9	315.0	300.1	277.1	258.9	242.4	224.2	217.7
12.5°	722.2	512.8	387.6	324.9	306.6	288.6	260.6	239.2	219.3	199.5	193.0
15°	1203.8	819.5	491.4	324.9	291.9	270.4	235.9	214.4	193.0	174.7	168.3
17.5°	1662.1	1165.8	684.3	366.1	293.5	249.0	206.0	182.9	164.9	146.7	141.9
20°	1927.6	1358.8	811.4	407.4	290.3	224.2	176.5	151.7	133.5	120.4	115.4
22.5°	1962.4	1367.0	783.3	364.5	244.1	186.4	146.7	123.7	108.8	97.3	94.0
25°	1870.0	1207.0	626.6	258.9	181.4	151.7	115.4	98.9	87.5	77.5	75.8
26°	1799.1	1111.3	545.8	214.4	159.8	135.1	103.9	89.1	79.1	70.9	69.3
27°	1698.5	1009.2	466.6	178.0	141.9	122.0	92.4	80.8	72.6	64.4	64.4
28°	1584.6	898.7	376.0	150.0	127.0	108.8	84.0	72.6	64.4	59.3	59.3
29°	1447.9	738.8	275.4	130.2	112.2	95.7	74.2	64.4	57.7	54.4	54.4
30°	1245.0	536.0	189.7	113.8	97.3	84.0	65.9	57.7	52.7	49.5	49.5
31°	972.8	329.7	148.4	98.9	85.7	74.2	59.3	51.1	47.8	44.6	46.2
32°	662.9	206.0	127.0	85.7	75.8	64.4	52.7	46.2	42.8	41.3	41.3
33°	377.5	171.5	110.3	74.2	64.4	56.1	46.2	41.3	39.6	38.0	38.0
34°	250.6	146.7	95.7	62.7	52.7	47.8	39.6	36.2	34.5	34.5	34.5
35°	211.1	127.0	77.5	52.7	46.2	41.3	34.5	33.0	31.3	31.3	33.0
36°	178.0	105.6	62.7	44.6	39.6	36.2	31.3	29.6	28.0	28.0	29.6
37°	150.0	84.0	52.7	38.0	33.0	31.3	28.0	26.3	26.3	26.3	28.0
38°	122.0	67.6	44.6	33.0	29.6	26.3	24.8	23.1	23.1	24.8	26.3
39°	95.7	54.4	36.2	28.0	24.8	23.1	21.5	21.5	21.5	21.5	23.1
40°	75.8	46.2	31.3	24.8	21.5	21.5	19.9	18.1	19.9	19.9	23.1
42.5°	47.8	33.0	23.1	18.1	16.5	16.5	14.9	14.9	14.9	16.5	18.1
45°	34.5	26.3	18.1	14.9	13.3	11.4	11.4	11.4	13.3	14.9	16.5
47.5°	26.3	18.1	13.3	9.9	8.2	8.2	8.2	8.2	9.9	11.4	13.3
50°	18.1	11.4	8.2	6.6	6.6	6.6	6.6	6.6	8.2	9.9	11.4
51°	14.9	9.9	8.2	6.6	6.6	4.9	4.9	6.6	8.2	8.2	9.9
52°	11.4	8.2	6.6	4.9	4.9	4.9	4.9	6.6	6.6	8.2	9.9
53°	9.9	8.2	6.6	4.9	4.9	4.9	4.9	4.9	6.6	8.2	9.9
54°	8.2	6.6	4.9	4.9	4.9	4.9	4.9	4.9	6.6	8.2	9.9
55°	6.6	6.6	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	8.2
57.5°	6.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	8.2
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	8.2
61°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	8.2
62°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	8.2
63°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	6.6	8.2
64°	4.9	4.9	4.9	4.9	6.6	6.6	4.9	4.9	6.6	6.6	8.2
65°	4.9	4.9	6.6	6.6	6.6	6.6	4.9	4.9	6.6	6.6	8.2
66°	4.9	6.6	6.6	6.6	6.6	6.6	4.9	4.9	6.6	6.6	8.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	4.9	6.6	6.6	6.6
75°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
77.5°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	4.9	4.9	6.6	6.6
80°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	4.9	4.9	6.6	6.6
82.5°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	4.9	4.9	4.9	6.6
85°	4.9	4.9	6.6	6.6	6.6	6.6	6.6	4.9	4.9	4.9	4.9
87.5°	4.9	4.9	6.6	6.6	6.6	6.6	4.9	4.9	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	263.8	258.9	255.5	253.9	255.5	252.3	247.3	249.0	247.3	245.6	245.6
5°	250.6	242.4	239.2	237.4	237.4	235.9	229.2	230.8	229.2	227.6	227.6
7.5°	232.4	225.9	221.0	219.3	219.3	217.7	211.1	214.4	211.1	209.4	211.1
10°	211.1	204.5	202.8	199.5	199.5	197.8	193.0	194.6	193.0	193.0	193.0
12.5°	188.0	181.4	179.7	178.0	179.7	178.0	173.2	176.5	174.7	174.7	176.5
15°	163.3	158.2	158.2	156.6	158.2	156.6	155.0	156.6	156.6	156.6	159.8
17.5°	138.5	135.1	135.1	133.5	135.1	135.1	133.5	138.5	138.5	141.9	145.2
20°	113.8	110.3	112.2	112.2	115.4	115.4	115.4	120.4	122.0	125.3	130.2
22.5°	94.0	92.4	94.0	94.0	97.3	98.9	98.9	103.9	108.8	112.2	117.1
25°	75.8	75.8	79.1	79.1	80.8	84.0	85.7	92.4	95.7	98.9	103.9
26°	70.9	70.9	72.6	74.2	75.8	79.1	80.8	87.5	90.7	94.0	98.9
27°	64.4	64.4	67.6	69.3	70.9	74.2	77.5	82.4	85.7	90.7	94.0
28°	59.3	59.3	62.7	64.4	65.9	70.9	72.6	77.5	80.8	85.7	90.7
29°	54.4	56.1	59.3	59.3	62.7	65.9	67.6	74.2	77.5	80.8	85.7
30°	51.1	52.7	54.4	56.1	57.7	60.9	64.4	69.3	72.6	75.8	80.8
31°	47.8	49.5	51.1	52.7	54.4	57.7	60.9	65.9	69.3	72.6	77.5
32°	44.6	44.6	47.8	49.5	51.1	54.4	57.7	62.7	65.9	69.3	74.2
33°	41.3	42.8	44.6	46.2	47.8	51.1	54.4	57.7	60.9	65.9	70.9
34°	38.0	39.6	42.8	44.6	46.2	49.5	51.1	54.4	57.7	62.7	65.9
35°	34.5	38.0	39.6	41.3	42.8	46.2	47.8	52.7	54.4	59.3	62.7
36°	33.0	34.5	38.0	39.6	41.3	42.8	44.6	49.5	52.7	56.1	59.3
37°	29.6	33.0	34.5	36.2	38.0	41.3	42.8	46.2	49.5	52.7	56.1
38°	28.0	29.6	33.0	34.5	36.2	38.0	39.6	44.6	46.2	49.5	52.7
39°	26.3	28.0	31.3	33.0	33.0	36.2	38.0	41.3	42.8	46.2	51.1
40°	24.8	26.3	29.6	29.6	31.3	34.5	36.2	39.6	41.3	44.6	47.8
42.5°	21.5	23.1	24.8	26.3	28.0	29.6	31.3	34.5	36.2	38.0	41.3
45°	18.1	19.9	23.1	23.1	24.8	26.3	28.0	29.6	31.3	34.5	36.2
47.5°	14.9	18.1	19.9	21.5	21.5	23.1	24.8	26.3	28.0	29.6	31.3
50°	13.3	14.9	16.5	18.1	18.1	19.9	21.5	23.1	23.1	24.8	28.0
51°	13.3	14.9	16.5	16.5	18.1	19.9	19.9	21.5	23.1	23.1	24.8
52°	11.4	13.3	14.9	16.5	16.5	18.1	19.9	19.9	21.5	23.1	24.8
53°	11.4	13.3	14.9	14.9	16.5	18.1	18.1	19.9	19.9	21.5	23.1
54°	11.4	13.3	14.9	14.9	16.5	16.5	18.1	18.1	19.9	19.9	21.5
55°	9.9	11.4	13.3	14.9	14.9	16.5	16.5	18.1	18.1	19.9	19.9
57.5°	9.9	11.4	13.3	13.3	13.3	14.9	14.9	16.5	16.5	16.5	18.1
60°	9.9	11.4	11.4	13.3	13.3	14.9	14.9	14.9	14.9	16.5	16.5
61°	9.9	9.9	11.4	13.3	13.3	13.3	14.9	14.9	14.9	14.9	16.5
62°	9.9	9.9	11.4	11.4	13.3	13.3	13.3	14.9	14.9	14.9	14.9
63°	8.2	9.9	11.4	11.4	13.3	13.3	13.3	13.3	13.3	14.9	14.9
64°	8.2	9.9	11.4	11.4	11.4	13.3	13.3	13.3	13.3	13.3	13.3
65°	8.2	9.9	11.4	11.4	11.4	13.3	13.3	13.3	13.3	13.3	13.3
66°	8.2	9.9	11.4	11.4	11.4	13.3	13.3	13.3	13.3	13.3	13.3



TEST NUMBER: P1219571

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	8.2	8.2	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
75°	8.2	8.2	8.2	9.9	9.9	9.9	9.9	9.9	9.9	8.2	8.2
77.5°	6.6	6.6	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	6.6
80°	6.6	6.6	8.2	8.2	8.2	8.2	8.2	8.2	6.6	6.6	6.6
82.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.9	4.9
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.9	4.9	3.2
87.5°	4.9	6.6	6.6	6.6	6.6	6.6	4.9	4.9	4.9	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

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TEST NUMBER: P1219571

CATALOG NUMBER: LDSQA4A35950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	275.4	275.4	275.4	275.4	275.4	275.4	275.4	275.4
2.5°	247.3	242.4	240.9	240.9	242.4	240.9	242.4	240.9
5°	227.6	222.6	222.6	221.0	222.6	221.0	222.6	221.0
7.5°	211.1	206.0	206.0	206.0	206.0	206.0	207.7	206.0
10°	194.6	189.7	189.7	188.0	189.7	189.7	191.4	189.7
12.5°	178.0	174.7	174.7	173.2	176.5	174.7	178.0	176.5
15°	163.3	159.8	159.8	161.6	163.3	163.3	164.9	164.9
17.5°	148.4	148.4	148.4	150.0	151.7	153.4	155.0	153.4
20°	135.1	135.1	137.0	138.5	140.2	141.9	143.5	143.5
22.5°	122.0	122.0	123.7	127.0	130.2	131.9	133.5	133.5
25°	108.8	110.3	112.2	113.8	118.8	120.4	122.0	122.0
26°	103.9	105.6	108.8	110.3	113.8	115.4	118.8	118.8
27°	100.6	102.2	103.9	105.6	110.3	112.2	115.4	113.8
28°	95.7	97.3	98.9	102.2	105.6	108.8	110.3	110.3
29°	90.7	94.0	95.7	97.3	102.2	103.9	105.6	105.6
30°	87.5	89.1	90.7	94.0	97.3	100.6	102.2	102.2
31°	82.4	85.7	87.5	89.1	94.0	95.7	98.9	98.9
32°	79.1	80.8	82.4	85.7	89.1	92.4	94.0	94.0
33°	74.2	77.5	79.1	80.8	85.7	89.1	90.7	89.1
34°	70.9	74.2	74.2	77.5	80.8	84.0	85.7	85.7
35°	67.6	69.3	70.9	74.2	77.5	80.8	82.4	82.4
36°	64.4	65.9	67.6	70.9	74.2	77.5	79.1	79.1
37°	60.9	62.7	64.4	65.9	70.9	74.2	75.8	75.8
38°	57.7	59.3	60.9	64.4	67.6	69.3	72.6	72.6
39°	54.4	56.1	57.7	60.9	64.4	65.9	69.3	67.6
40°	51.1	54.4	54.4	57.7	60.9	62.7	65.9	64.4
42.5°	44.6	46.2	47.8	49.5	52.7	56.1	57.7	57.7
45°	39.6	41.3	42.8	44.6	46.2	47.8	51.1	49.5
47.5°	33.0	34.5	36.2	38.0	39.6	41.3	42.8	42.8
50°	29.6	29.6	31.3	31.3	34.5	36.2	38.0	38.0
51°	26.3	28.0	29.6	29.6	33.0	33.0	34.5	34.5
52°	26.3	26.3	28.0	28.0	29.6	31.3	33.0	33.0
53°	24.8	24.8	26.3	26.3	28.0	29.6	31.3	31.3
54°	23.1	23.1	24.8	24.8	26.3	28.0	29.6	29.6
55°	21.5	21.5	23.1	23.1	24.8	26.3	28.0	28.0
57.5°	18.1	19.9	19.9	21.5	21.5	23.1	23.1	24.8
60°	16.5	18.1	18.1	18.1	19.9	19.9	19.9	19.9
61°	16.5	16.5	16.5	18.1	18.1	16.5	18.1	16.5
62°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
63°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
64°	14.9	13.3	13.3	13.3	13.3	13.3	13.3	13.3
65°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	11.4
66°	13.3	13.3	11.4	13.3	11.4	11.4	11.4	11.4

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Scaled Data Report

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	8.2	8.2	8.2	8.2	8.2	6.6	6.6	6.6
75°	8.2	8.2	8.2	6.6	6.6	6.6	6.6	4.9
77.5°	6.6	6.6	6.6	6.6	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	3.2	3.2
82.5°	4.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	3.2	3.2	3.2	3.2	3.2	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9

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67.5°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	4.9	6.6	6.6	8.2
70°	4.9	6.6	6.6	6.6	6.6	6.6	6.6	4.9	6.6	6.6	6.6

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67.5°	8.2	9.9	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
70°	8.2	9.9	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4	11.4

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67.5°	11.4	11.4	11.4	11.4	11.4	9.9	9.9	9.9
70°	9.9	9.9	9.9	9.9	9.9	8.2	8.2	8.2

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Scaled Data Report



(END OF REPORT)