

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: P1212360

Luminaire Tested: **LDSQA4A35930D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26802)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35930D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

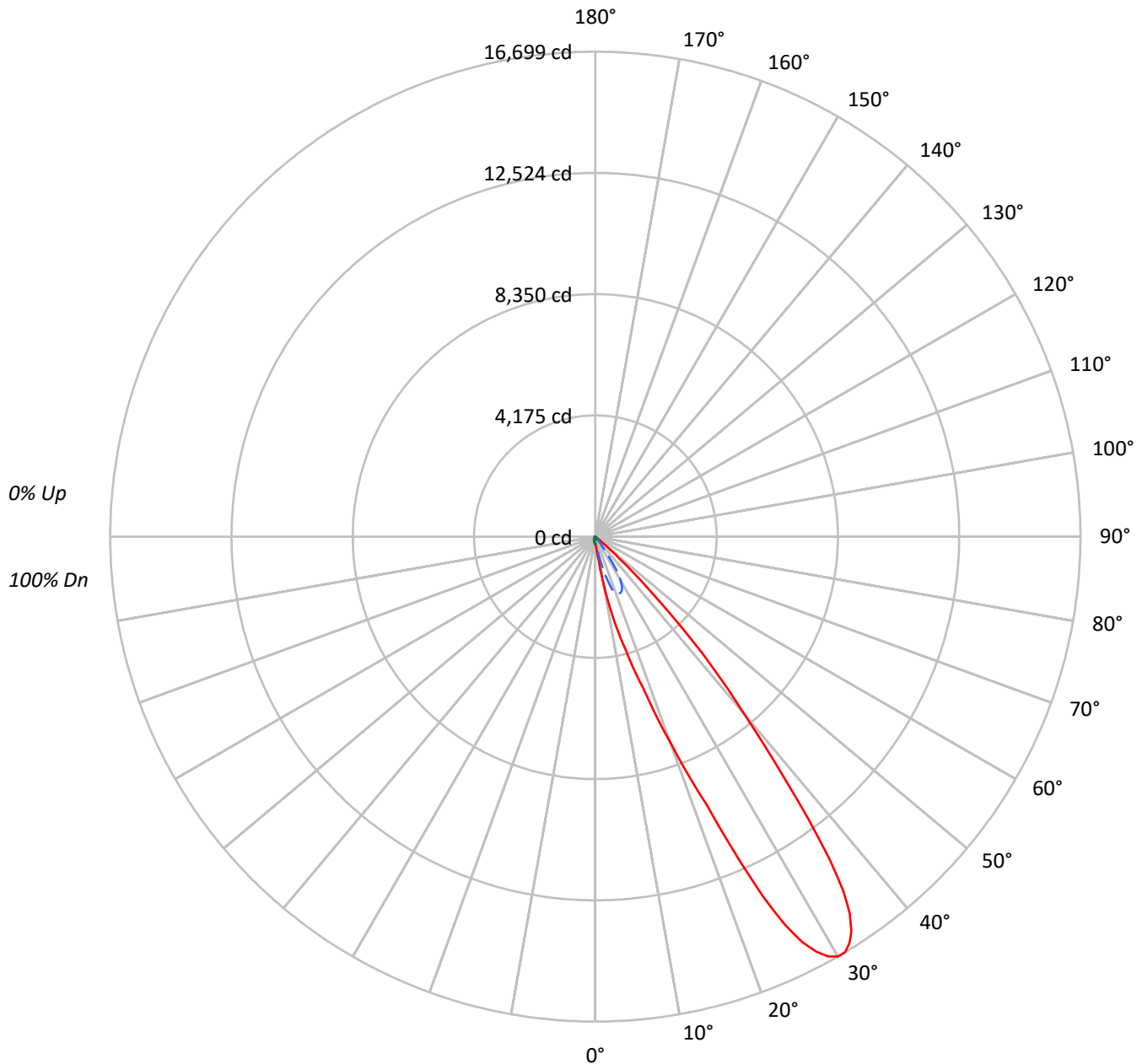
Lumens per Lamp: N/A
Luminaire Lumens: 2621.3 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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	105	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	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	69	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	63	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°	23957	23957	23957
5°	38062	22785	19663
10°	166747	20176	16752
15°	407410	16338	14593
20°	777288	12155	13340
25°	1464866	8712	11662
30°	1867795	6186	10258
35°	1756999	3784	8775
40°	1007952	2580	7537
45°	389101	1795	6371
50°	51739	1311	5275
55°	7854	1216	4408
60°	2267	1124	3662
65°	1330	1330	2682
70°	821	1643	2039
75°	1085	1609	1609
80°	0	2399	1618
85°	0	4780	1667

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.2
10°-20°	280.9	10.7
20°-30°	895.9	34.2
30°-40°	1038.1	39.6
40°-50°	337.6	12.9
50°-60°	21.4	0.8
60°-70°	7.8	0.3
70°-80°	5.5	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°	1207.7	46.1
0°-40°	2245.8	85.7
0°-60°	2604.8	99.4
0°-90°	2621.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	247	247	247	247	247	
5°	391	327	234	205	202	76
15°	4062	1464	163	140	146	1288
25°	13704	2105	82	86	109	6158
35°	14857	502	32	49	74	8548
45°	2840	61	13	29	46	2536
55°	46	12	7	16	26	72
65°	6	4	6	12	12	5
75°	3	4	4	7	4	2
85°	0	3	4	4	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°	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3
2.5°	301.2	304.0	304.0	299.7	299.7	295.4	292.5	291.1	289.6	285.1	283.7
5°	391.4	394.3	395.8	384.1	379.7	371.1	363.7	356.5	347.7	337.6	327.3
7.5°	755.2	694.1	704.2	616.9	600.9	563.0	532.5	484.5	449.7	414.7	387.0
10°	1695.1	1636.9	1626.6	1498.6	1372.1	1277.5	1175.7	999.6	839.5	669.3	531.1
12.5°	2904.1	2818.2	2770.3	2518.6	2370.2	2230.5	2074.8	1799.8	1492.8	1230.9	957.4
15°	4062.2	4055.0	3883.2	3602.5	3320.2	3148.6	2947.8	2607.3	2243.5	1844.9	1463.6
17.5°	5460.5	5517.2	5223.4	4674.8	4228.2	3948.9	3672.3	3139.8	2686.0	2298.8	1881.3
20°	7539.7	7388.3	6874.7	6016.3	5261.1	4840.6	4411.5	3627.3	2976.9	2508.4	2085.0
22.5°	9982.6	9866.2	8905.9	7474.2	6276.7	5686.0	5095.3	4075.4	3228.6	2621.8	2124.2
25°	13704.4	13225.7	11361.9	9038.3	7207.9	6371.3	5613.3	4366.4	3342.0	2636.4	2105.3
26°	14846.6	14510.5	12360.0	9659.6	7494.5	6560.5	5742.8	4426.1	3350.8	2623.3	2069.0
27°	15657.0	15400.9	13190.9	10116.5	7702.7	6691.4	5827.2	4450.8	3330.5	2595.7	2019.5
28°	16191.0	15985.8	13817.9	10446.7	7829.2	6761.3	5868.0	4445.0	3289.7	2547.7	1949.7
29°	16530.0	16332.1	14184.5	10634.5	7874.3	6772.9	5857.7	4401.2	3224.2	2476.4	1849.3
30°	16697.3	16481.9	14308.3	10654.9	7824.9	6706.0	5780.7	4305.3	3134.0	2390.5	1738.7
31°	16698.7	16460.1	14204.9	10497.7	7678.0	6563.4	5643.9	4145.3	3016.1	2288.7	1590.3
32°	16505.3	16259.3	13860.1	10179.0	7448.0	6384.4	5460.5	3982.2	2892.5	2175.2	1376.4
33°	16180.7	15889.8	13262.1	9736.7	7154.1	6140.0	5240.7	3800.4	2768.9	1993.3	1095.6
34°	15657.0	15259.8	12426.9	9199.8	6799.1	5854.8	4989.1	3603.9	2643.6	1740.1	782.8
35°	14856.7	14296.6	11460.9	8606.2	6419.3	5546.4	4705.4	3398.8	2491.0	1427.3	501.9
36°	13698.6	12975.5	10455.5	7992.1	6028.0	5222.0	4417.3	3200.9	2249.4	1082.4	328.8
37°	12186.8	11549.5	9493.6	7373.8	5622.1	4875.6	4153.9	3001.5	1952.6	756.6	267.7
38°	10634.5	10164.4	8553.8	6759.9	5201.6	4501.6	3833.9	2793.6	1628.2	497.6	224.0
39°	9234.6	8920.5	7634.2	6151.6	4768.0	4174.3	3513.8	2528.8	1281.8	353.6	189.1
40°	7970.4	7753.5	6745.3	5531.8	4334.4	3778.6	3212.6	2204.2	923.9	282.2	158.6
42.5°	5435.7	5328.1	4718.4	3980.8	3206.8	2888.2	2530.3	1325.5	366.6	179.0	96.1
45°	2840.1	2793.6	2572.4	2330.9	2090.9	2007.9	1626.6	595.1	206.6	104.8	61.1
47.5°	1105.7	1108.7	916.7	782.8	743.4	691.2	523.8	213.9	116.4	64.0	40.7
50°	343.3	369.6	340.5	321.6	245.9	205.1	170.3	106.1	62.6	39.3	26.1
51°	211.0	224.0	211.0	211.0	173.2	151.4	129.4	81.5	49.4	32.0	23.3
52°	136.8	144.0	136.8	128.0	119.3	107.6	93.1	61.1	39.3	26.1	18.9
53°	93.1	97.5	93.1	87.2	80.0	74.2	65.4	45.0	32.0	21.8	16.1
54°	65.4	68.3	65.4	61.1	56.8	52.4	48.0	35.0	26.1	18.9	14.6
55°	46.5	49.4	48.0	45.0	40.7	39.3	36.4	27.6	21.8	16.1	11.7
57.5°	21.8	23.3	23.3	21.8	21.8	20.4	18.9	17.4	13.1	10.2	8.7
60°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	8.7	7.2	7.2
61°	8.7	8.7	8.7	8.7	8.7	8.7	10.2	8.7	7.2	7.2	5.8
62°	7.2	7.2	7.2	7.2	7.2	8.7	8.7	7.2	7.2	5.8	5.8
63°	5.8	5.8	5.8	5.8	7.2	7.2	7.2	7.2	5.8	5.8	5.8
64°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.3
65°	5.8	5.8	4.3	4.3	4.3	5.8	4.3	5.8	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



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
77.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.3
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	2.9
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9
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°	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3
2.5°	275.0	267.7	264.8	261.9	260.5	257.5	253.2	248.7	247.3	241.5	235.7
5°	310.0	296.8	286.6	276.5	273.6	266.2	257.5	247.3	242.9	234.3	227.0
7.5°	350.7	324.4	305.5	288.1	280.8	272.1	256.1	242.9	234.3	221.1	212.5
10°	419.0	357.9	321.6	291.1	279.4	267.7	247.3	230.0	218.3	205.1	195.0
12.5°	663.4	464.1	349.2	292.5	276.5	259.0	234.3	213.9	199.4	184.8	176.1
15°	1046.1	707.1	452.5	307.0	270.7	244.4	215.4	192.1	177.5	162.9	154.2
17.5°	1396.8	951.6	590.8	341.9	273.6	231.4	192.1	168.7	152.8	139.6	133.9
20°	1565.5	1066.5	657.7	349.2	256.1	206.6	165.9	144.0	129.4	117.9	112.1
22.5°	1581.5	1059.2	616.9	298.3	212.5	174.6	139.6	119.3	107.6	98.9	93.1
25°	1505.8	939.9	494.7	219.7	165.9	145.5	115.0	97.5	88.7	81.5	77.2
26°	1447.7	871.5	435.1	190.7	151.4	132.4	104.8	90.3	81.5	75.7	71.3
27°	1367.6	791.5	365.1	164.4	139.6	119.3	96.1	82.9	75.7	71.3	66.9
28°	1271.7	713.0	302.6	145.5	126.5	107.6	88.7	75.7	69.8	65.4	61.1
29°	1168.4	609.7	237.2	131.0	113.5	97.5	80.0	68.3	62.6	59.6	56.8
30°	1022.8	474.4	181.8	117.9	101.8	87.2	72.8	62.6	58.2	55.3	52.4
31°	817.7	325.9	146.9	104.8	91.7	78.5	65.4	56.8	52.4	49.4	48.0
32°	586.3	200.8	128.0	93.1	81.5	71.3	56.8	51.0	46.5	45.0	43.7
33°	360.8	164.4	113.5	82.9	71.3	62.6	51.0	45.0	42.2	40.7	39.3
34°	237.2	142.6	100.4	71.3	62.6	53.9	43.7	39.3	37.8	36.4	36.4
35°	200.8	126.5	87.2	61.1	52.4	46.5	37.8	35.0	33.5	32.0	33.5
36°	173.2	110.7	72.8	52.4	45.0	39.3	33.5	30.6	29.1	29.1	30.6
37°	152.8	93.1	61.1	43.7	39.3	35.0	29.1	27.6	26.1	26.1	27.6
38°	129.4	75.7	51.0	37.8	33.5	29.1	26.1	24.7	24.7	24.7	26.1
39°	106.1	64.0	43.7	32.0	29.1	26.1	23.3	21.8	21.8	23.3	23.3
40°	87.2	53.9	36.4	27.6	24.7	23.3	20.4	20.4	20.4	20.4	21.8
42.5°	56.8	36.4	26.1	20.4	18.9	17.4	16.1	16.1	16.1	16.1	17.4
45°	37.8	26.1	20.4	16.1	14.6	13.1	13.1	11.7	13.1	13.1	14.6
47.5°	26.1	18.9	14.6	11.7	10.2	8.7	8.7	8.7	10.2	11.7	11.7
50°	18.9	13.1	10.2	7.2	7.2	7.2	7.2	7.2	8.7	8.7	10.2
51°	16.1	11.7	8.7	7.2	7.2	5.8	5.8	5.8	7.2	8.7	10.2
52°	13.1	10.2	7.2	5.8	5.8	5.8	5.8	5.8	7.2	7.2	8.7
53°	11.7	8.7	7.2	5.8	5.8	5.8	5.8	5.8	7.2	7.2	8.7
54°	10.2	7.2	5.8	5.8	5.8	4.3	4.3	5.8	5.8	7.2	8.7
55°	8.7	7.2	5.8	5.8	4.3	4.3	4.3	4.3	5.8	7.2	7.2
57.5°	7.2	5.8	5.8	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2
60°	5.8	5.8	5.8	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2
61°	5.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2
62°	5.8	4.3	5.8	5.8	5.8	4.3	4.3	4.3	5.8	5.8	7.2
63°	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	5.8	5.8	5.8
64°	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8	7.2
65°	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8	7.2
66°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	5.8	5.8	5.8

Classified

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.3	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8
75°	4.3	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	5.8
77.5°	4.3	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	5.8
80°	4.3	4.3	5.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3
2.5°	232.9	232.9	231.4	228.3	231.4	228.3	225.5	224.0	222.6	221.1	218.3
5°	221.1	219.7	216.8	215.4	215.4	212.5	209.4	206.6	205.1	203.7	200.8
7.5°	206.6	205.1	200.8	199.4	199.4	196.4	192.1	190.7	189.1	187.6	184.8
10°	189.1	187.6	183.3	181.8	181.8	179.0	176.1	173.2	171.8	170.3	167.2
12.5°	168.7	167.2	164.4	162.9	162.9	160.0	157.2	155.7	155.7	154.2	152.8
15°	148.3	146.9	144.0	144.0	144.0	141.1	139.6	138.3	139.6	139.6	138.3
17.5°	128.0	126.5	123.7	123.7	123.7	123.7	122.2	122.2	123.7	125.1	125.1
20°	107.6	106.1	106.1	104.8	106.1	107.6	106.1	107.6	110.7	112.1	113.5
22.5°	88.7	88.7	88.7	88.7	90.3	91.7	91.7	94.6	97.5	98.9	101.8
25°	74.2	74.2	75.7	75.7	77.2	78.5	80.0	81.5	85.8	88.7	90.3
26°	68.3	69.8	69.8	71.3	72.8	74.2	75.7	77.2	81.5	84.4	85.8
27°	64.0	64.0	65.4	66.9	68.3	69.8	71.3	74.2	77.2	80.0	82.9
28°	59.6	59.6	61.1	62.6	64.0	65.4	66.9	69.8	72.8	77.2	78.5
29°	55.3	56.8	56.8	58.2	59.6	61.1	64.0	65.4	69.8	72.8	75.7
30°	51.0	52.4	53.9	53.9	55.3	56.8	59.6	62.6	65.4	69.8	71.3
31°	48.0	49.4	49.4	51.0	52.4	53.9	56.8	59.6	62.6	65.4	68.3
32°	43.7	46.5	46.5	46.5	48.0	51.0	53.9	55.3	59.6	62.6	64.0
33°	40.7	42.2	43.7	43.7	45.0	48.0	51.0	52.4	56.8	59.6	61.1
34°	37.8	39.3	40.7	40.7	42.2	45.0	48.0	49.4	53.9	55.3	58.2
35°	35.0	36.4	37.8	37.8	39.3	42.2	45.0	46.5	49.4	52.4	55.3
36°	32.0	33.5	35.0	36.4	37.8	40.7	42.2	45.0	46.5	49.4	52.4
37°	29.1	30.6	33.5	33.5	36.4	37.8	40.7	42.2	45.0	46.5	49.4
38°	26.1	29.1	30.6	32.0	33.5	36.4	37.8	39.3	42.2	45.0	46.5
39°	24.7	27.6	29.1	30.6	32.0	33.5	35.0	37.8	39.3	42.2	43.7
40°	23.3	24.7	27.6	27.6	30.6	32.0	33.5	35.0	37.8	39.3	42.2
42.5°	18.9	21.8	23.3	24.7	26.1	27.6	29.1	30.6	32.0	35.0	36.4
45°	16.1	18.9	20.4	20.4	21.8	23.3	24.7	26.1	29.1	30.6	32.0
47.5°	13.1	16.1	17.4	18.9	18.9	20.4	21.8	23.3	24.7	26.1	27.6
50°	11.7	13.1	14.6	16.1	17.4	17.4	18.9	20.4	21.8	23.3	23.3
51°	11.7	13.1	14.6	14.6	16.1	17.4	18.9	18.9	20.4	21.8	21.8
52°	10.2	11.7	13.1	14.6	16.1	16.1	17.4	18.9	18.9	20.4	21.8
53°	10.2	11.7	13.1	13.1	14.6	16.1	16.1	17.4	18.9	18.9	20.4
54°	8.7	11.7	13.1	13.1	14.6	14.6	16.1	17.4	17.4	17.4	18.9
55°	8.7	10.2	11.7	13.1	13.1	14.6	14.6	16.1	16.1	17.4	17.4
57.5°	8.7	10.2	11.7	11.7	13.1	13.1	14.6	14.6	14.6	14.6	16.1
60°	7.2	8.7	10.2	11.7	11.7	13.1	13.1	13.1	13.1	13.1	14.6
61°	7.2	8.7	10.2	10.2	11.7	11.7	13.1	13.1	13.1	13.1	13.1
62°	7.2	8.7	10.2	10.2	11.7	11.7	11.7	13.1	13.1	13.1	13.1
63°	7.2	8.7	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7	13.1
64°	7.2	8.7	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.2	8.7	10.2	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7
66°	7.2	8.7	10.2	10.2	10.2	10.2	11.7	11.7	11.7	11.7	10.2

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212360

CATALOG NUMBER: LDSQA4A35930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.8	7.2	7.2	8.7	8.7	8.7	8.7	8.7	8.7	8.7	7.2
75°	5.8	7.2	7.2	7.2	8.7	8.7	8.7	7.2	7.2	7.2	7.2
77.5°	5.8	5.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	5.8	5.8
80°	5.8	5.8	5.8	7.2	7.2	7.2	7.2	5.8	5.8	5.8	4.3
82.5°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3
85°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	2.9
87.5°	4.3	4.3	4.3	5.8	5.8	5.8	4.3	4.3	2.9	2.9	2.9
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: P1212360

CATALOG NUMBER: LDSQA4A35930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3
2.5°	221.1	222.6	221.1	221.1	218.3	219.7	216.8	221.1
5°	202.2	203.7	202.2	202.2	199.4	199.4	197.9	202.2
7.5°	186.2	187.6	184.8	184.8	181.8	183.3	181.8	184.8
10°	170.3	170.3	170.3	168.7	167.2	168.7	167.2	170.3
12.5°	154.2	155.7	155.7	155.7	154.2	154.2	152.8	157.2
15°	141.1	142.6	144.0	144.0	142.6	144.0	142.6	145.5
17.5°	129.4	132.4	132.4	133.9	133.9	135.3	135.3	138.3
20°	117.9	122.2	122.2	123.7	123.7	126.5	126.5	129.4
22.5°	106.1	110.7	112.1	112.1	113.5	116.4	116.4	119.3
25°	96.1	100.4	101.8	101.8	103.3	106.1	106.1	109.1
26°	91.7	96.1	97.5	98.9	100.4	103.3	103.3	106.1
27°	87.2	91.7	93.1	94.6	96.1	98.9	98.9	101.8
28°	84.4	88.7	90.3	91.7	93.1	96.1	96.1	97.5
29°	80.0	84.4	85.8	87.2	88.7	91.7	91.7	94.6
30°	77.2	80.0	81.5	82.9	84.4	88.7	88.7	91.7
31°	72.8	77.2	78.5	80.0	81.5	84.4	84.4	88.7
32°	69.8	72.8	74.2	75.7	78.5	80.0	81.5	84.4
33°	65.4	69.8	71.3	72.8	74.2	77.2	78.5	81.5
34°	62.6	65.4	68.3	69.8	71.3	74.2	75.7	78.5
35°	59.6	62.6	64.0	65.4	68.3	71.3	71.3	74.2
36°	56.8	59.6	61.1	62.6	65.4	68.3	68.3	71.3
37°	53.9	56.8	58.2	59.6	62.6	65.4	65.4	68.3
38°	51.0	53.9	55.3	56.8	59.6	62.6	64.0	66.9
39°	48.0	52.4	53.9	55.3	56.8	59.6	61.1	62.6
40°	46.5	49.4	51.0	52.4	53.9	56.8	58.2	59.6
42.5°	39.3	43.7	45.0	46.5	48.0	49.4	51.0	52.4
45°	35.0	37.8	37.8	39.3	40.7	43.7	43.7	46.5
47.5°	30.6	32.0	33.5	33.5	35.0	37.8	37.8	39.3
50°	26.1	27.6	29.1	29.1	30.6	32.0	33.5	35.0
51°	24.7	26.1	26.1	27.6	29.1	30.6	32.0	33.5
52°	23.3	24.7	24.7	26.1	27.6	29.1	29.1	30.6
53°	21.8	23.3	23.3	24.7	24.7	27.6	27.6	29.1
54°	20.4	21.8	21.8	23.3	23.3	26.1	26.1	27.6
55°	18.9	20.4	21.8	21.8	21.8	23.3	24.7	26.1
57.5°	17.4	18.9	18.9	18.9	20.4	20.4	21.8	21.8
60°	14.6	16.1	16.1	16.1	17.4	17.4	17.4	18.9
61°	14.6	14.6	16.1	16.1	14.6	14.6	14.6	16.1
62°	13.1	14.6	14.6	13.1	13.1	13.1	13.1	14.6
63°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
64°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	11.7	11.7	11.7	11.7	11.7	11.7	10.2	11.7
66°	10.2	11.7	11.7	10.2	10.2	10.2	10.2	10.2



TEST NUMBER: P1212360

CATALOG NUMBER: LDSQA4A35930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	7.2	7.2	7.2	7.2	7.2	5.8	5.8	5.8
75°	7.2	5.8	5.8	5.8	5.8	5.8	5.8	4.3
77.5°	5.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9
82.5°	4.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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

1121 Highway 74 South

Peachtree City, GA 30269



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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3

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67.5°	4.3	4.3	5.8	5.8	5.8	5.8	4.3	4.3	4.3	5.8	5.8
70°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8

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Peachtree City, GA 30269

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Peachtree City, GA 30269

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67.5°	7.2	8.7	8.7	8.7	10.2	10.2	10.2	10.2	10.2	10.2	10.2
70°	7.2	7.2	8.7	8.7	8.7	10.2	10.2	8.7	8.7	8.7	8.7

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67.5°	10.2	10.2	10.2	10.2	8.7	8.7	8.7	8.7
70°	8.7	8.7	8.7	8.7	7.2	7.2	7.2	7.2

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Peachtree City, GA 30269

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(END OF REPORT)