

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: P1212318

Luminaire Tested: **LDSQA4A30935D010TE LAR15SP 4LSQAL1H 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: P1212318
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: LDSQA4A30935D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

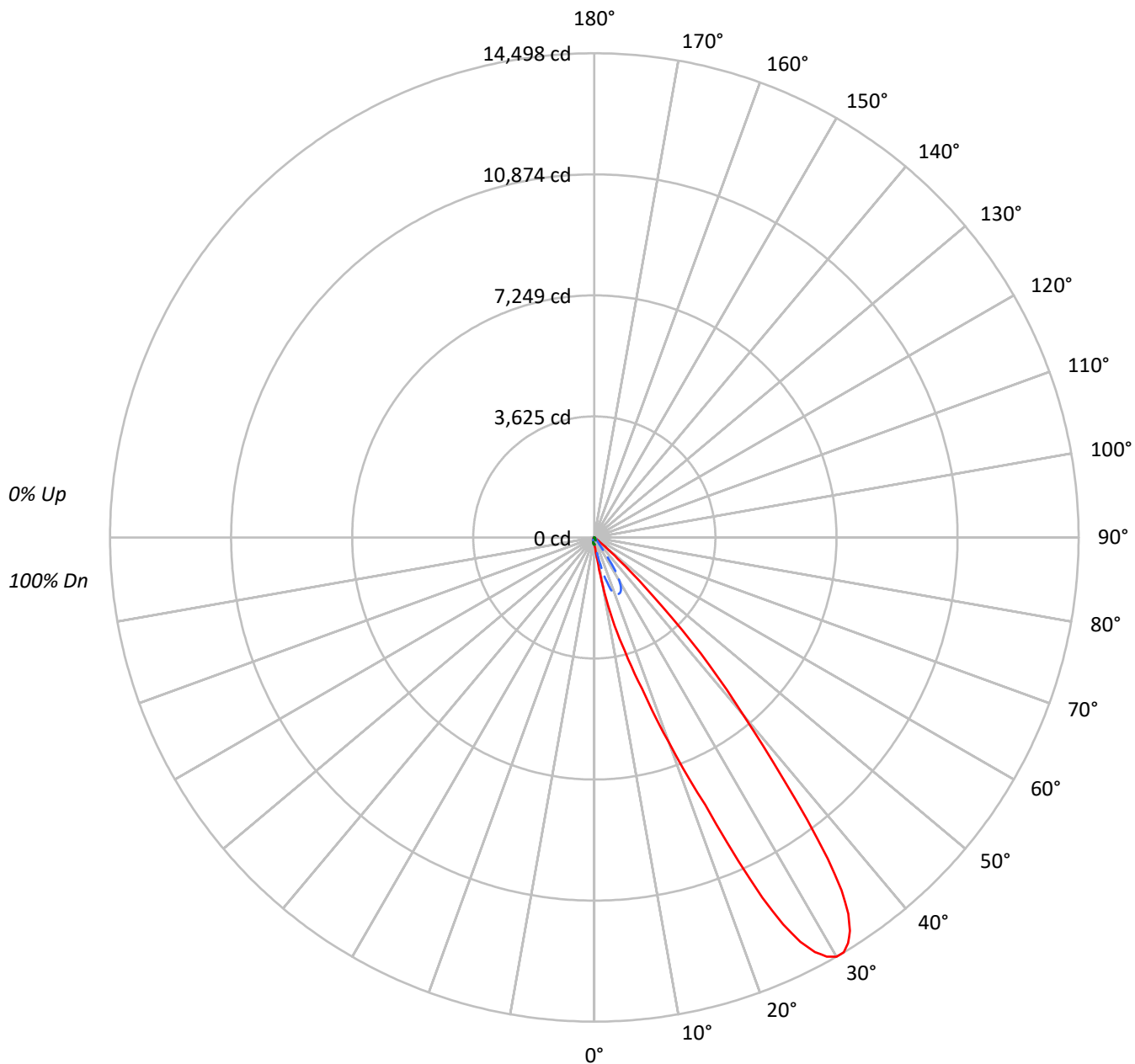
Lumens per Lamp: N/A
Luminaire Lumens: 2275.9 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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	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	85	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	71	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°	20799	20799	20799
5°	33044	19780	17076
10°	144771	17520	14539
15°	353733	14191	12667
20°	674855	10557	11588
25°	1271822	7557	10123
30°	1621654	5369	8904
35°	1525463	3288	7616
40°	875116	2238	6551
45°	337835	1562	5549
50°	44927	1145	4567
55°	6840	1064	3834
60°	1957	988	3178
65°	1169	1169	2315
70°	708	1445	1784
75°	936	1422	1422
80°	0	2120	1395
85°	0	4224	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.2
10°-20°	243.9	10.7
20°-30°	777.8	34.2
30°-40°	901.3	39.6
40°-50°	293.1	12.9
50°-60°	18.6	0.8
60°-70°	6.8	0.3
70°-80°	4.8	0.2
80°-90°	2.8	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°	1048.5	46.1
0°-40°	1949.9	85.7
0°-60°	2261.5	99.4
0°-90°	2275.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	215	215	215	215	215	
5°	340	284	203	178	176	66
15°	3527	1271	142	121	126	1118
25°	11898	1828	71	75	95	5346
35°	12899	436	28	43	64	7422
45°	2466	53	11	25	40	2202
55°	40	10	6	14	23	63
65°	5	4	5	10	10	5
75°	2	4	4	6	4	2
85°	0	2	4	4	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°	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7
2.5°	261.5	264.0	264.0	260.2	260.2	256.4	253.9	252.7	251.4	247.6	246.3
5°	339.8	342.4	343.6	333.5	329.7	322.2	315.8	309.5	301.9	293.1	284.2
7.5°	655.6	602.5	611.4	535.6	521.7	488.8	462.4	420.7	390.3	360.0	336.1
10°	1471.7	1421.1	1412.3	1301.1	1191.2	1109.1	1020.7	867.8	728.8	581.0	461.0
12.5°	2521.5	2446.9	2405.2	2186.7	2057.8	1936.6	1801.3	1562.7	1296.1	1068.8	831.2
15°	3527.0	3520.6	3371.6	3127.7	2882.7	2733.7	2559.3	2263.7	1947.9	1601.8	1270.8
17.5°	4740.9	4790.2	4535.0	4058.7	3670.9	3428.4	3188.4	2726.1	2332.0	1995.9	1633.4
20°	6546.1	6414.8	5968.8	5223.5	4567.9	4202.8	3830.1	3149.3	2584.5	2177.8	1810.3
22.5°	8667.1	8566.1	7732.3	6489.3	5449.7	4936.7	4423.8	3538.4	2803.1	2276.4	1844.4
25°	11898.4	11482.8	9864.7	7847.3	6258.1	5531.7	4873.6	3791.0	2901.6	2289.0	1827.9
26°	12890.1	12598.3	10731.3	8386.6	6507.0	5696.0	4986.0	3842.8	2909.2	2277.6	1796.4
27°	13593.7	13371.4	11452.6	8783.3	6687.6	5809.7	5059.2	3864.3	2891.6	2253.7	1753.4
28°	14057.3	13879.2	11997.0	9070.1	6797.5	5870.2	5094.6	3859.2	2856.2	2212.0	1692.7
29°	14351.7	14179.9	12315.3	9233.0	6836.6	5880.4	5085.8	3821.3	2799.3	2150.1	1605.6
30°	14496.9	14310.0	12422.7	9250.7	6793.7	5822.3	5018.9	3737.9	2721.0	2075.5	1509.6
31°	14498.2	14291.0	12333.0	9114.2	6666.1	5698.5	4900.1	3598.9	2618.7	1987.1	1380.7
32°	14330.2	14116.8	12033.6	8837.6	6466.5	5543.1	4740.9	3457.5	2511.3	1888.6	1195.0
33°	14048.5	13795.8	11514.5	8453.6	6211.4	5330.9	4550.2	3299.6	2404.0	1730.6	951.2
34°	13593.7	13248.9	10789.4	7987.5	5903.1	5083.3	4331.6	3129.1	2295.3	1510.8	679.6
35°	12898.9	12412.6	9950.6	7472.0	5573.4	4815.5	4085.3	2950.9	2162.7	1239.3	435.8
36°	11893.4	11265.5	9077.6	6939.0	5233.6	4533.8	3835.2	2779.1	1953.0	939.8	285.4
37°	10580.9	10027.6	8242.7	6402.1	4881.1	4233.1	3606.5	2606.1	1695.2	656.9	232.4
38°	9233.0	8825.0	7426.6	5869.0	4516.0	3908.4	3328.6	2425.4	1413.5	432.0	194.6
39°	8017.8	7744.9	6628.2	5340.9	4139.6	3624.2	3050.8	2195.5	1112.9	307.0	164.2
40°	6920.0	6731.7	5856.3	4802.8	3763.2	3280.6	2789.2	1913.8	802.2	245.1	137.7
42.5°	4719.4	4626.0	4096.7	3456.2	2784.2	2507.6	2196.7	1150.8	318.3	155.4	83.4
45°	2465.9	2425.4	2233.4	2023.7	1815.2	1743.3	1412.3	516.6	179.3	91.0	53.1
47.5°	960.0	962.5	795.9	679.6	645.6	600.0	454.7	185.7	101.0	55.6	35.4
50°	298.1	320.8	295.6	279.2	213.5	178.1	147.8	92.2	54.4	34.1	22.7
51°	183.2	194.6	183.2	183.2	150.3	131.4	112.4	70.7	42.9	27.8	20.2
52°	118.8	125.1	118.8	111.2	103.6	93.5	80.8	53.1	34.1	22.7	16.4
53°	80.8	84.6	80.8	75.8	69.5	64.4	56.8	39.2	27.8	19.0	13.9
54°	56.8	59.3	56.8	53.1	49.3	45.4	41.7	30.3	22.7	16.4	12.7
55°	40.5	42.9	41.7	39.2	35.4	34.1	31.5	24.0	19.0	13.9	10.1
57.5°	19.0	20.2	20.2	19.0	19.0	17.7	16.4	15.1	11.4	8.8	7.6
60°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	7.6	6.3	6.3
61°	7.6	7.6	7.6	7.6	7.6	7.6	8.8	7.6	6.3	6.3	5.1
62°	6.3	6.3	6.3	6.3	6.3	7.6	7.6	6.3	6.3	5.1	5.1
63°	5.1	5.1	5.1	5.1	6.3	6.3	6.3	6.3	5.1	5.1	5.1
64°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.8
65°	5.1	5.1	3.8	3.8	3.8	5.1	3.8	5.1	3.8	3.8	3.8
66°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8
77.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.8
80°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5
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°	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7
2.5°	238.8	232.4	230.0	227.4	226.1	223.6	219.8	216.1	214.7	209.7	204.6
5°	269.1	257.8	248.8	240.0	237.5	231.2	223.6	214.7	211.0	203.4	197.1
7.5°	304.4	281.7	265.3	250.1	243.9	236.2	222.4	211.0	203.4	192.0	184.4
10°	363.9	310.7	279.2	252.7	242.5	232.4	214.7	199.6	189.5	178.1	169.3
12.5°	576.1	403.0	303.2	253.9	240.0	224.9	203.4	185.7	173.1	160.5	152.9
15°	908.3	613.9	392.9	266.6	234.9	212.2	187.0	166.8	154.1	141.5	133.9
17.5°	1212.7	826.1	512.9	296.9	237.5	200.8	166.8	146.6	132.7	121.2	116.2
20°	1359.3	925.9	571.0	303.2	222.4	179.3	144.0	125.1	112.4	102.4	97.3
22.5°	1373.2	919.6	535.6	259.0	184.4	151.5	121.2	103.6	93.5	85.9	80.8
25°	1307.4	816.1	429.5	190.7	144.0	126.3	99.8	84.6	77.1	70.7	66.9
26°	1256.9	756.6	377.8	165.4	131.4	114.9	91.0	78.3	70.7	65.7	61.9
27°	1187.4	687.2	317.1	142.7	121.2	103.6	83.4	72.0	65.7	61.9	58.1
28°	1104.1	619.0	262.7	126.3	109.9	93.5	77.1	65.7	60.7	56.8	53.1
29°	1014.4	529.3	205.9	113.7	98.5	84.6	69.5	59.3	54.4	51.8	49.3
30°	888.1	411.8	157.9	102.4	88.5	75.8	63.2	54.4	50.5	48.0	45.4
31°	710.0	283.0	127.6	91.0	79.6	68.3	56.8	49.3	45.4	42.9	41.7
32°	509.1	174.4	111.2	80.8	70.7	61.9	49.3	44.2	40.5	39.2	37.9
33°	313.2	142.7	98.5	72.0	61.9	54.4	44.2	39.2	36.6	35.4	34.1
34°	205.9	123.8	87.1	61.9	54.4	46.8	37.9	34.1	32.9	31.5	31.5
35°	174.4	109.9	75.8	53.1	45.4	40.5	32.9	30.3	29.0	27.8	29.0
36°	150.3	96.0	63.2	45.4	39.2	34.1	29.0	26.6	25.3	25.3	26.6
37°	132.7	80.8	53.1	37.9	34.1	30.3	25.3	24.0	22.7	22.7	24.0
38°	112.4	65.7	44.2	32.9	29.0	25.3	22.7	21.5	21.5	21.5	22.7
39°	92.2	55.6	37.9	27.8	25.3	22.7	20.2	19.0	19.0	20.2	20.2
40°	75.8	46.8	31.5	24.0	21.5	20.2	17.7	17.7	17.7	17.7	19.0
42.5°	49.3	31.5	22.7	17.7	16.4	15.1	13.9	13.9	13.9	13.9	15.1
45°	32.9	22.7	17.7	13.9	12.7	11.4	11.4	10.1	11.4	11.4	12.7
47.5°	22.7	16.4	12.7	10.1	8.8	7.6	7.6	7.6	8.8	10.1	10.1
50°	16.4	11.4	8.8	6.3	6.3	6.3	6.3	6.3	7.6	7.6	8.8
51°	13.9	10.1	7.6	6.3	6.3	5.1	5.1	5.1	6.3	7.6	8.8
52°	11.4	8.8	6.3	5.1	5.1	5.1	5.1	5.1	6.3	6.3	7.6
53°	10.1	7.6	6.3	5.1	5.1	5.1	5.1	5.1	6.3	6.3	7.6
54°	8.8	6.3	5.1	5.1	5.1	3.8	3.8	5.1	5.1	6.3	7.6
55°	7.6	6.3	5.1	5.1	3.8	3.8	3.8	3.8	5.1	6.3	6.3
57.5°	6.3	5.1	5.1	3.8	3.8	3.8	3.8	3.8	5.1	5.1	6.3
60°	5.1	5.1	5.1	3.8	3.8	3.8	3.8	3.8	5.1	5.1	6.3
61°	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	5.1	6.3
62°	5.1	3.8	5.1	5.1	5.1	3.8	3.8	3.8	5.1	5.1	6.3
63°	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8	5.1	5.1	5.1
64°	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8	5.1	5.1	6.3
65°	3.8	5.1	5.1	5.1	5.1	5.1	3.8	3.8	5.1	5.1	6.3
66°	3.8	5.1	5.1	5.1	5.1	5.1	5.1	3.8	5.1	5.1	5.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.8	3.8	5.1	5.1	5.1	5.1	5.1	3.8	3.8	5.1	5.1
75°	3.8	3.8	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8	5.1
77.5°	3.8	3.8	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8	5.1
80°	3.8	3.8	5.1	5.1	5.1	5.1	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	5.1	5.1	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.8	3.8	3.8	5.1	5.1	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7
2.5°	202.2	202.2	200.8	198.3	200.8	198.3	195.8	194.6	193.2	192.0	189.5
5°	192.0	190.7	188.3	187.0	187.0	184.4	181.9	179.3	178.1	176.8	174.4
7.5°	179.3	178.1	174.4	173.1	173.1	170.5	166.8	165.4	164.2	162.9	160.5
10°	164.2	162.9	159.2	157.9	157.9	155.4	152.9	150.3	149.0	147.8	145.3
12.5°	146.6	145.3	142.7	141.5	141.5	139.0	136.4	135.1	135.1	133.9	132.7
15°	128.8	127.6	125.1	125.1	125.1	122.5	121.2	120.0	121.2	121.2	120.0
17.5°	111.2	109.9	107.4	107.4	107.4	107.4	106.1	106.1	107.4	108.6	108.6
20°	93.5	92.2	92.2	91.0	92.2	93.5	92.2	93.5	96.0	97.3	98.5
22.5°	77.1	77.1	77.1	77.1	78.3	79.6	79.6	82.2	84.6	85.9	88.5
25°	64.4	64.4	65.7	65.7	66.9	68.3	69.5	70.7	74.6	77.1	78.3
26°	59.3	60.7	60.7	61.9	63.2	64.4	65.7	66.9	70.7	73.2	74.6
27°	55.6	55.6	56.8	58.1	59.3	60.7	61.9	64.4	66.9	69.5	72.0
28°	51.8	51.8	53.1	54.4	55.6	56.8	58.1	60.7	63.2	66.9	68.3
29°	48.0	49.3	49.3	50.5	51.8	53.1	55.6	56.8	60.7	63.2	65.7
30°	44.2	45.4	46.8	46.8	48.0	49.3	51.8	54.4	56.8	60.7	61.9
31°	41.7	42.9	42.9	44.2	45.4	46.8	49.3	51.8	54.4	56.8	59.3
32°	37.9	40.5	40.5	40.5	41.7	44.2	46.8	48.0	51.8	54.4	55.6
33°	35.4	36.6	37.9	37.9	39.2	41.7	44.2	45.4	49.3	51.8	53.1
34°	32.9	34.1	35.4	35.4	36.6	39.2	41.7	42.9	46.8	48.0	50.5
35°	30.3	31.5	32.9	32.9	34.1	36.6	39.2	40.5	42.9	45.4	48.0
36°	27.8	29.0	30.3	31.5	32.9	35.4	36.6	39.2	40.5	42.9	45.4
37°	25.3	26.6	29.0	29.0	31.5	32.9	35.4	36.6	39.2	40.5	42.9
38°	22.7	25.3	26.6	27.8	29.0	31.5	32.9	34.1	36.6	39.2	40.5
39°	21.5	24.0	25.3	26.6	27.8	29.0	30.3	32.9	34.1	36.6	37.9
40°	20.2	21.5	24.0	24.0	26.6	27.8	29.0	30.3	32.9	34.1	36.6
42.5°	16.4	19.0	20.2	21.5	22.7	24.0	25.3	26.6	27.8	30.3	31.5
45°	13.9	16.4	17.7	17.7	19.0	20.2	21.5	22.7	25.3	26.6	27.8
47.5°	11.4	13.9	15.1	16.4	16.4	17.7	19.0	20.2	21.5	22.7	24.0
50°	10.1	11.4	12.7	13.9	15.1	15.1	16.4	17.7	19.0	20.2	20.2
51°	10.1	11.4	12.7	12.7	13.9	15.1	16.4	16.4	17.7	19.0	19.0
52°	8.8	10.1	11.4	12.7	13.9	13.9	15.1	16.4	16.4	17.7	19.0
53°	8.8	10.1	11.4	11.4	12.7	13.9	13.9	15.1	16.4	16.4	17.7
54°	7.6	10.1	11.4	11.4	12.7	12.7	13.9	15.1	15.1	15.1	16.4
55°	7.6	8.8	10.1	11.4	11.4	12.7	12.7	13.9	13.9	15.1	15.1
57.5°	7.6	8.8	10.1	10.1	11.4	11.4	12.7	12.7	12.7	12.7	13.9
60°	6.3	7.6	8.8	10.1	10.1	11.4	11.4	11.4	11.4	11.4	12.7
61°	6.3	7.6	8.8	8.8	10.1	10.1	11.4	11.4	11.4	11.4	11.4
62°	6.3	7.6	8.8	8.8	10.1	10.1	10.1	11.4	11.4	11.4	11.4
63°	6.3	7.6	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1	11.4
64°	6.3	7.6	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	6.3	7.6	8.8	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1
66°	6.3	7.6	8.8	8.8	8.8	8.8	10.1	10.1	10.1	10.1	8.8



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.1	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3
75°	5.1	6.3	6.3	6.3	7.6	7.6	7.6	6.3	6.3	6.3	6.3
77.5°	5.1	5.1	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.1	5.1
80°	5.1	5.1	5.1	6.3	6.3	6.3	6.3	5.1	5.1	5.1	3.8
82.5°	3.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8
85°	3.8	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8	3.8	2.5
87.5°	3.8	3.8	3.8	5.1	5.1	5.1	3.8	3.8	2.5	2.5	2.5
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: P1212318

CATALOG NUMBER: LDSQA4A30935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7
2.5°	192.0	193.2	192.0	192.0	189.5	190.7	188.3	192.0
5°	175.6	176.8	175.6	175.6	173.1	173.1	171.8	175.6
7.5°	161.7	162.9	160.5	160.5	157.9	159.2	157.9	160.5
10°	147.8	147.8	147.8	146.6	145.3	146.6	145.3	147.8
12.5°	133.9	135.1	135.1	135.1	133.9	133.9	132.7	136.4
15°	122.5	123.8	125.1	125.1	123.8	125.1	123.8	126.3
17.5°	112.4	114.9	114.9	116.2	116.2	117.5	117.5	120.0
20°	102.4	106.1	106.1	107.4	107.4	109.9	109.9	112.4
22.5°	92.2	96.0	97.3	97.3	98.5	101.0	101.0	103.6
25°	83.4	87.1	88.5	88.5	89.7	92.2	92.2	94.7
26°	79.6	83.4	84.6	85.9	87.1	89.7	89.7	92.2
27°	75.8	79.6	80.8	82.2	83.4	85.9	85.9	88.5
28°	73.2	77.1	78.3	79.6	80.8	83.4	83.4	84.6
29°	69.5	73.2	74.6	75.8	77.1	79.6	79.6	82.2
30°	66.9	69.5	70.7	72.0	73.2	77.1	77.1	79.6
31°	63.2	66.9	68.3	69.5	70.7	73.2	73.2	77.1
32°	60.7	63.2	64.4	65.7	68.3	69.5	70.7	73.2
33°	56.8	60.7	61.9	63.2	64.4	66.9	68.3	70.7
34°	54.4	56.8	59.3	60.7	61.9	64.4	65.7	68.3
35°	51.8	54.4	55.6	56.8	59.3	61.9	61.9	64.4
36°	49.3	51.8	53.1	54.4	56.8	59.3	59.3	61.9
37°	46.8	49.3	50.5	51.8	54.4	56.8	56.8	59.3
38°	44.2	46.8	48.0	49.3	51.8	54.4	55.6	58.1
39°	41.7	45.4	46.8	48.0	49.3	51.8	53.1	54.4
40°	40.5	42.9	44.2	45.4	46.8	49.3	50.5	51.8
42.5°	34.1	37.9	39.2	40.5	41.7	42.9	44.2	45.4
45°	30.3	32.9	32.9	34.1	35.4	37.9	37.9	40.5
47.5°	26.6	27.8	29.0	29.0	30.3	32.9	32.9	34.1
50°	22.7	24.0	25.3	25.3	26.6	27.8	29.0	30.3
51°	21.5	22.7	22.7	24.0	25.3	26.6	27.8	29.0
52°	20.2	21.5	21.5	22.7	24.0	25.3	25.3	26.6
53°	19.0	20.2	20.2	21.5	21.5	24.0	24.0	25.3
54°	17.7	19.0	19.0	20.2	20.2	22.7	22.7	24.0
55°	16.4	17.7	19.0	19.0	19.0	20.2	21.5	22.7
57.5°	15.1	16.4	16.4	16.4	17.7	17.7	19.0	19.0
60°	12.7	13.9	13.9	13.9	15.1	15.1	15.1	16.4
61°	12.7	12.7	13.9	13.9	12.7	12.7	12.7	13.9
62°	11.4	12.7	12.7	11.4	11.4	11.4	11.4	12.7
63°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
64°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	10.1	10.1	10.1	10.1	10.1	10.1	8.8	10.1
66°	8.8	10.1	10.1	8.8	8.8	8.8	8.8	8.8



TEST NUMBER: P1212318

CATALOG NUMBER: LDSQA4A30935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	6.3	6.3	6.3	6.3	6.3	5.1	5.1	5.1
75°	6.3	5.1	5.1	5.1	5.1	5.1	5.1	3.8
77.5°	5.1	5.1	5.1	5.1	3.8	3.8	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5
82.5°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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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Peachtree City, GA 30269

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8

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67.5°	3.8	3.8	5.1	5.1	5.1	5.1	3.8	3.8	3.8	5.1	5.1
70°	3.8	5.1	5.1	5.1	5.1	5.1	5.1	3.8	3.8	5.1	5.1

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67.5°	6.3	7.6	7.6	7.6	8.8	8.8	8.8	8.8	8.8	8.8	8.8
70°	6.3	6.3	7.6	7.6	7.6	8.8	8.8	7.6	7.6	7.6	7.6

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Peachtree City, GA 30269

Scaled Data Report



67.5°	8.8	8.8	8.8	8.8	7.6	7.6	7.6	7.6
70°	7.6	7.6	7.6	7.6	6.3	6.3	6.3	6.3

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)