

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: P1212388

Luminaire Tested: **LDSQA4A35940D010TE 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: P1212388
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: LDSQA4A35940D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

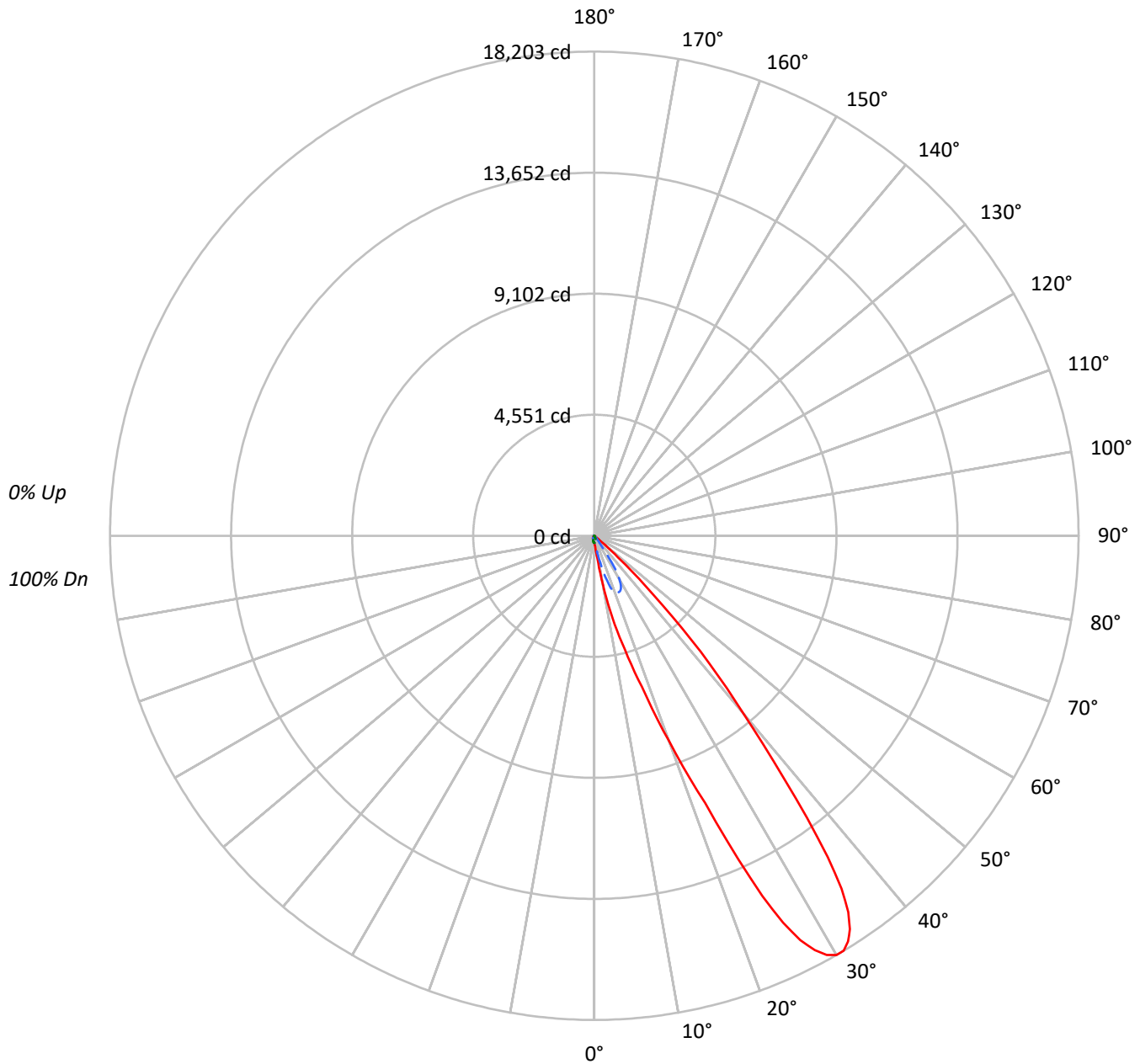
Lumens per Lamp: N/A
Luminaire Lumens: 2857.4 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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°	26127	26127	26127
5°	41495	24827	21443
10°	181768	22005	18257
15°	444117	17822	15906
20°	847308	13247	14546
25°	1596833	9492	12709
30°	2036058	6745	11175
35°	1915294	4139	9579
40°	1098739	2807	8220
45°	424146	1959	6946
50°	56411	1432	5742
55°	8563	1334	4814
60°	2480	1221	4011
65°	1444	1444	2934
70°	878	1784	2238
75°	1160	1759	1759
80°	0	2622	1729
85°	0	5224	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	1.2
10°-20°	306.2	10.7
20°-30°	976.6	34.2
30°-40°	1131.7	39.6
40°-50°	368.0	12.9
50°-60°	23.3	0.8
60°-70°	8.4	0.3
70°-80°	6.0	0.2
80°-90°	3.5	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°	1316.5	46.1
0°-40°	2448.1	85.7
0°-60°	2839.4	99.4
0°-90°	2857.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	270	270	270	270	270	
5°	427	357	255	224	220	83
15°	4428	1596	178	152	159	1404
25°	14939	2295	89	94	119	6713
35°	16195	547	35	54	81	9318
45°	3096	67	14	32	51	2764
55°	51	13	8	17	28	79
65°	6	5	6	13	13	6
75°	3	5	5	8	5	2
85°	0	3	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°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7
2.5°	328.4	331.5	331.5	326.7	326.7	321.9	318.8	317.2	315.7	310.9	309.3
5°	426.7	429.8	431.4	418.8	413.9	404.4	396.5	388.6	379.1	367.9	356.9
7.5°	823.2	756.6	767.7	672.5	655.0	613.8	580.5	528.1	490.1	452.0	421.9
10°	1847.8	1784.3	1773.2	1633.6	1495.6	1392.5	1281.5	1089.6	915.2	729.6	579.0
12.5°	3165.7	3072.1	3019.9	2745.5	2583.7	2431.4	2261.7	1961.9	1627.2	1341.9	1043.6
15°	4428.2	4420.3	4233.2	3927.0	3619.4	3432.2	3213.4	2842.2	2445.7	2011.1	1595.6
17.5°	5952.4	6014.3	5693.9	5096.0	4609.0	4304.5	4003.2	3422.7	2927.9	2505.9	2050.8
20°	8218.9	8053.9	7494.0	6558.3	5735.1	5276.7	4808.9	3954.0	3245.1	2734.3	2272.9
22.5°	10881.9	10754.9	9708.2	8147.5	6842.3	6198.3	5554.3	4442.5	3519.4	2858.1	2315.6
25°	14939.0	14417.2	12385.5	9852.5	7857.4	6945.3	6118.9	4759.7	3643.2	2874.0	2295.0
26°	16184.0	15817.6	13473.5	10529.7	8169.6	7151.4	6260.2	4824.7	3652.6	2859.6	2255.3
27°	17067.4	16788.3	14379.1	11027.7	8396.6	7294.3	6352.2	4851.7	3630.4	2829.6	2201.5
28°	17649.5	17425.9	15062.7	11387.8	8534.6	7370.4	6396.6	4845.4	3586.1	2777.1	2125.2
29°	18019.0	17803.4	15462.3	11592.4	8583.7	7383.1	6385.4	4797.8	3514.7	2699.5	2015.8
30°	18201.5	17966.7	15597.2	11614.6	8529.7	7310.1	6301.4	4693.1	3416.4	2606.0	1895.3
31°	18203.1	17943.0	15484.5	11443.3	8369.5	7154.6	6152.3	4518.6	3287.9	2494.9	1733.5
32°	17992.1	17724.0	15108.7	11095.9	8118.9	6959.6	5952.4	4341.1	3153.1	2371.1	1500.4
33°	17638.5	17321.3	14456.8	10613.8	7798.6	6693.2	5712.9	4142.8	3018.3	2172.8	1194.3
34°	17067.4	16634.4	13546.4	10028.6	7411.6	6382.2	5438.5	3928.6	2881.9	1896.9	853.3
35°	16195.2	15584.4	12493.2	9381.4	6997.6	6046.0	5129.3	3705.0	2715.2	1555.9	547.1
36°	14932.7	14144.4	11397.3	8712.2	6571.0	5692.4	4815.3	3489.3	2452.1	1180.0	358.4
37°	13284.7	12590.1	10348.9	8038.1	6128.5	5314.8	4528.2	3272.0	2128.4	824.8	291.9
38°	11592.4	11080.2	9324.4	7368.8	5670.2	4907.3	4179.2	3045.2	1774.8	542.4	244.3
39°	10066.7	9724.0	8321.9	6705.9	5197.5	4550.4	3830.3	2756.5	1397.3	385.4	206.2
40°	8688.3	8452.0	7352.9	6030.2	4724.9	4119.0	3502.0	2402.9	1007.2	307.8	172.9
42.5°	5925.5	5808.2	5143.5	4339.5	3495.6	3148.3	2758.1	1444.9	399.7	195.1	104.8
45°	3095.9	3045.2	2804.1	2540.9	2279.1	2188.8	1773.2	648.8	225.2	114.2	66.6
47.5°	1205.3	1208.6	999.2	853.3	810.4	753.3	570.9	233.1	126.9	69.8	44.4
50°	374.3	402.9	371.1	350.5	268.1	223.7	185.6	115.8	68.2	42.9	28.5
51°	230.0	244.3	230.0	230.0	188.7	164.9	141.1	88.8	53.9	35.0	25.3
52°	149.1	157.0	149.1	139.6	130.1	117.3	101.5	66.6	42.9	28.5	20.7
53°	101.5	106.3	101.5	95.1	87.2	81.0	71.3	49.1	35.0	23.8	17.4
54°	71.3	74.5	71.3	66.6	61.9	57.2	52.3	38.1	28.5	20.7	15.9
55°	50.7	53.9	52.3	49.1	44.4	42.9	39.7	30.1	23.8	17.4	12.8
57.5°	23.8	25.3	25.3	23.8	23.8	22.2	20.7	19.1	14.3	11.0	9.5
60°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	9.5	7.9	7.9
61°	9.5	9.5	9.5	9.5	9.5	9.5	11.0	9.5	7.9	7.9	6.3
62°	7.9	7.9	7.9	7.9	7.9	9.5	9.5	7.9	7.9	6.3	6.3
63°	6.3	6.3	6.3	6.3	7.9	7.9	7.9	7.9	6.3	6.3	6.3
64°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	4.7
65°	6.3	6.3	4.7	4.7	4.7	6.3	4.7	6.3	4.7	4.7	4.7
66°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7
77.5°	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	3.1	3.1	4.7
80°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.1	3.1	3.1
82.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	3.1	3.1
85°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	3.1	3.1
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°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7
2.5°	299.7	291.9	288.7	285.5	284.0	280.7	275.9	271.2	269.7	263.3	256.9
5°	337.8	323.5	312.4	301.3	298.1	290.2	280.7	269.7	264.9	255.3	247.4
7.5°	382.2	353.8	333.1	314.0	306.2	296.6	279.1	264.9	255.3	241.1	231.6
10°	456.8	390.1	350.5	317.2	304.6	291.9	269.7	250.6	238.0	223.7	212.5
12.5°	723.2	505.9	380.7	318.8	301.3	282.4	255.3	233.1	217.3	201.4	192.0
15°	1140.4	770.8	493.3	334.7	295.0	266.4	234.7	209.3	193.5	177.7	168.0
17.5°	1522.6	1037.3	644.0	372.8	298.1	252.1	209.3	184.0	166.5	152.3	145.9
20°	1706.6	1162.6	716.9	380.7	279.1	225.2	180.8	157.0	141.1	128.5	122.1
22.5°	1724.0	1154.6	672.5	325.1	231.6	190.2	152.3	130.1	117.3	107.9	101.5
25°	1641.6	1024.6	539.3	239.5	180.8	158.6	125.3	106.3	96.7	88.8	84.1
26°	1578.1	950.0	474.2	207.8	164.9	144.2	114.2	98.3	88.8	82.5	77.7
27°	1490.9	862.8	398.1	179.2	152.3	130.1	104.8	90.4	82.5	77.7	72.9
28°	1386.3	777.1	330.0	158.6	138.0	117.3	96.7	82.5	76.1	71.3	66.6
29°	1273.6	664.5	258.5	142.7	123.7	106.3	87.2	74.5	68.2	65.0	61.9
30°	1114.9	517.1	198.3	128.5	111.0	95.1	79.4	68.2	63.4	60.3	57.2
31°	891.4	355.3	160.2	114.2	99.9	85.7	71.3	61.9	57.2	53.9	52.3
32°	639.1	218.9	139.6	101.5	88.8	77.7	61.9	55.5	50.7	49.1	47.6
33°	393.3	179.2	123.7	90.4	77.7	68.2	55.5	49.1	46.0	44.4	42.9
34°	258.5	155.4	109.4	77.7	68.2	58.8	47.6	42.9	41.2	39.7	39.7
35°	218.9	138.0	95.1	66.6	57.2	50.7	41.2	38.1	36.5	35.0	36.5
36°	188.7	120.5	79.4	57.2	49.1	42.9	36.5	33.2	31.7	31.7	33.2
37°	166.5	101.5	66.6	47.6	42.9	38.1	31.7	30.1	28.5	28.5	30.1
38°	141.1	82.5	55.5	41.2	36.5	31.7	28.5	26.9	26.9	26.9	28.5
39°	115.8	69.8	47.6	35.0	31.7	28.5	25.3	23.8	23.8	25.3	25.3
40°	95.1	58.8	39.7	30.1	26.9	25.3	22.2	22.2	22.2	22.2	23.8
42.5°	61.9	39.7	28.5	22.2	20.7	19.1	17.4	17.4	17.4	17.4	19.1
45°	41.2	28.5	22.2	17.4	15.9	14.3	14.3	12.8	14.3	14.3	15.9
47.5°	28.5	20.7	15.9	12.8	11.0	9.5	9.5	9.5	11.0	12.8	12.8
50°	20.7	14.3	11.0	7.9	7.9	7.9	7.9	7.9	9.5	9.5	11.0
51°	17.4	12.8	9.5	7.9	7.9	6.3	6.3	6.3	7.9	9.5	11.0
52°	14.3	11.0	7.9	6.3	6.3	6.3	6.3	6.3	7.9	7.9	9.5
53°	12.8	9.5	7.9	6.3	6.3	6.3	6.3	6.3	7.9	7.9	9.5
54°	11.0	7.9	6.3	6.3	6.3	4.7	4.7	6.3	6.3	7.9	9.5
55°	9.5	7.9	6.3	6.3	4.7	4.7	4.7	4.7	6.3	7.9	7.9
57.5°	7.9	6.3	6.3	4.7	4.7	4.7	4.7	4.7	6.3	6.3	7.9
60°	6.3	6.3	6.3	4.7	4.7	4.7	4.7	4.7	6.3	6.3	7.9
61°	6.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	7.9
62°	6.3	4.7	6.3	6.3	6.3	4.7	4.7	4.7	6.3	6.3	7.9
63°	6.3	6.3	6.3	6.3	6.3	4.7	4.7	4.7	6.3	6.3	6.3
64°	6.3	6.3	6.3	6.3	6.3	6.3	4.7	4.7	6.3	6.3	7.9
65°	4.7	6.3	6.3	6.3	6.3	6.3	4.7	4.7	6.3	6.3	7.9
66°	4.7	6.3	6.3	6.3	6.3	6.3	6.3	4.7	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	4.7	4.7	6.3	6.3
75°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	4.7	4.7	4.7	6.3
77.5°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	4.7	4.7	4.7	6.3
80°	4.7	4.7	6.3	6.3	6.3	6.3	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	6.3	6.3	4.7	4.7	4.7	4.7	4.7	4.7
85°	4.7	4.7	4.7	6.3	6.3	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7
2.5°	253.7	253.7	252.1	249.0	252.1	249.0	245.9	244.3	242.7	241.1	238.0
5°	241.1	239.5	236.2	234.7	234.7	231.6	228.3	225.2	223.7	222.1	218.9
7.5°	225.2	223.7	218.9	217.3	217.3	214.0	209.3	207.8	206.2	204.6	201.4
10°	206.2	204.6	199.9	198.3	198.3	195.1	192.0	188.7	187.1	185.6	182.4
12.5°	184.0	182.4	179.2	177.7	177.7	174.5	171.3	169.8	169.8	168.0	166.5
15°	161.8	160.2	157.0	157.0	157.0	153.9	152.3	150.7	152.3	152.3	150.7
17.5°	139.6	138.0	134.8	134.8	134.8	134.8	133.2	133.2	134.8	136.4	136.4
20°	117.3	115.8	115.8	114.2	115.8	117.3	115.8	117.3	120.5	122.1	123.7
22.5°	96.7	96.7	96.7	96.7	98.3	99.9	99.9	103.1	106.3	107.9	111.0
25°	81.0	81.0	82.5	82.5	84.1	85.7	87.2	88.8	93.6	96.7	98.3
26°	74.5	76.1	76.1	77.7	79.4	81.0	82.5	84.1	88.8	92.0	93.6
27°	69.8	69.8	71.3	72.9	74.5	76.1	77.7	81.0	84.1	87.2	90.4
28°	65.0	65.0	66.6	68.2	69.8	71.3	72.9	76.1	79.4	84.1	85.7
29°	60.3	61.9	61.9	63.4	65.0	66.6	69.8	71.3	76.1	79.4	82.5
30°	55.5	57.2	58.8	58.8	60.3	61.9	65.0	68.2	71.3	76.1	77.7
31°	52.3	53.9	53.9	55.5	57.2	58.8	61.9	65.0	68.2	71.3	74.5
32°	47.6	50.7	50.7	50.7	52.3	55.5	58.8	60.3	65.0	68.2	69.8
33°	44.4	46.0	47.6	47.6	49.1	52.3	55.5	57.2	61.9	65.0	66.6
34°	41.2	42.9	44.4	44.4	46.0	49.1	52.3	53.9	58.8	60.3	63.4
35°	38.1	39.7	41.2	41.2	42.9	46.0	49.1	50.7	53.9	57.2	60.3
36°	35.0	36.5	38.1	39.7	41.2	44.4	46.0	49.1	50.7	53.9	57.2
37°	31.7	33.2	36.5	36.5	39.7	41.2	44.4	46.0	49.1	50.7	53.9
38°	28.5	31.7	33.2	35.0	36.5	39.7	41.2	42.9	46.0	49.1	50.7
39°	26.9	30.1	31.7	33.2	35.0	36.5	38.1	41.2	42.9	46.0	47.6
40°	25.3	26.9	30.1	30.1	33.2	35.0	36.5	38.1	41.2	42.9	46.0
42.5°	20.7	23.8	25.3	26.9	28.5	30.1	31.7	33.2	35.0	38.1	39.7
45°	17.4	20.7	22.2	22.2	23.8	25.3	26.9	28.5	31.7	33.2	35.0
47.5°	14.3	17.4	19.1	20.7	20.7	22.2	23.8	25.3	26.9	28.5	30.1
50°	12.8	14.3	15.9	17.4	19.1	19.1	20.7	22.2	23.8	25.3	25.3
51°	12.8	14.3	15.9	15.9	17.4	19.1	20.7	20.7	22.2	23.8	23.8
52°	11.0	12.8	14.3	15.9	17.4	17.4	19.1	20.7	20.7	22.2	23.8
53°	11.0	12.8	14.3	14.3	15.9	17.4	17.4	19.1	20.7	20.7	22.2
54°	9.5	12.8	14.3	14.3	15.9	15.9	17.4	19.1	19.1	19.1	20.7
55°	9.5	11.0	12.8	14.3	14.3	15.9	15.9	17.4	17.4	19.1	19.1
57.5°	9.5	11.0	12.8	12.8	14.3	14.3	15.9	15.9	15.9	15.9	17.4
60°	7.9	9.5	11.0	12.8	12.8	14.3	14.3	14.3	14.3	14.3	15.9
61°	7.9	9.5	11.0	11.0	12.8	12.8	14.3	14.3	14.3	14.3	14.3
62°	7.9	9.5	11.0	11.0	12.8	12.8	12.8	14.3	14.3	14.3	14.3
63°	7.9	9.5	11.0	11.0	12.8	12.8	12.8	12.8	12.8	12.8	14.3
64°	7.9	9.5	11.0	11.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8
65°	7.9	9.5	11.0	11.0	11.0	12.8	12.8	12.8	12.8	12.8	12.8
66°	7.9	9.5	11.0	11.0	11.0	11.0	12.8	12.8	12.8	12.8	11.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212388

CATALOG NUMBER: LDSQA4A35940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	6.3	7.9	7.9	9.5	9.5	9.5	9.5	9.5	9.5	9.5	7.9
75°	6.3	7.9	7.9	7.9	9.5	9.5	9.5	7.9	7.9	7.9	7.9
77.5°	6.3	6.3	7.9	7.9	7.9	7.9	7.9	7.9	7.9	6.3	6.3
80°	6.3	6.3	6.3	7.9	7.9	7.9	7.9	6.3	6.3	6.3	4.7
82.5°	4.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3	4.7	4.7	4.7
85°	4.7	6.3	6.3	6.3	6.3	6.3	6.3	4.7	4.7	4.7	3.1
87.5°	4.7	4.7	4.7	6.3	6.3	6.3	4.7	4.7	3.1	3.1	3.1
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: P1212388

CATALOG NUMBER: LDSQA4A35940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7
2.5°	241.1	242.7	241.1	241.1	238.0	239.5	236.2	241.1
5°	220.5	222.1	220.5	220.5	217.3	217.3	215.8	220.5
7.5°	203.0	204.6	201.4	201.4	198.3	199.9	198.3	201.4
10°	185.6	185.6	185.6	184.0	182.4	184.0	182.4	185.6
12.5°	168.0	169.8	169.8	169.8	168.0	168.0	166.5	171.3
15°	153.9	155.4	157.0	157.0	155.4	157.0	155.4	158.6
17.5°	141.1	144.2	144.2	145.9	145.9	147.5	147.5	150.7
20°	128.5	133.2	133.2	134.8	134.8	138.0	138.0	141.1
22.5°	115.8	120.5	122.1	122.1	123.7	126.9	126.9	130.1
25°	104.8	109.4	111.0	111.0	112.6	115.8	115.8	118.9
26°	99.9	104.8	106.3	107.9	109.4	112.6	112.6	115.8
27°	95.1	99.9	101.5	103.1	104.8	107.9	107.9	111.0
28°	92.0	96.7	98.3	99.9	101.5	104.8	104.8	106.3
29°	87.2	92.0	93.6	95.1	96.7	99.9	99.9	103.1
30°	84.1	87.2	88.8	90.4	92.0	96.7	96.7	99.9
31°	79.4	84.1	85.7	87.2	88.8	92.0	92.0	96.7
32°	76.1	79.4	81.0	82.5	85.7	87.2	88.8	92.0
33°	71.3	76.1	77.7	79.4	81.0	84.1	85.7	88.8
34°	68.2	71.3	74.5	76.1	77.7	81.0	82.5	85.7
35°	65.0	68.2	69.8	71.3	74.5	77.7	77.7	81.0
36°	61.9	65.0	66.6	68.2	71.3	74.5	74.5	77.7
37°	58.8	61.9	63.4	65.0	68.2	71.3	71.3	74.5
38°	55.5	58.8	60.3	61.9	65.0	68.2	69.8	72.9
39°	52.3	57.2	58.8	60.3	61.9	65.0	66.6	68.2
40°	50.7	53.9	55.5	57.2	58.8	61.9	63.4	65.0
42.5°	42.9	47.6	49.1	50.7	52.3	53.9	55.5	57.2
45°	38.1	41.2	41.2	42.9	44.4	47.6	47.6	50.7
47.5°	33.2	35.0	36.5	36.5	38.1	41.2	41.2	42.9
50°	28.5	30.1	31.7	31.7	33.2	35.0	36.5	38.1
51°	26.9	28.5	28.5	30.1	31.7	33.2	35.0	36.5
52°	25.3	26.9	26.9	28.5	30.1	31.7	31.7	33.2
53°	23.8	25.3	25.3	26.9	26.9	30.1	30.1	31.7
54°	22.2	23.8	23.8	25.3	25.3	28.5	28.5	30.1
55°	20.7	22.2	23.8	23.8	23.8	25.3	26.9	28.5
57.5°	19.1	20.7	20.7	20.7	22.2	22.2	23.8	23.8
60°	15.9	17.4	17.4	17.4	19.1	19.1	19.1	20.7
61°	15.9	15.9	17.4	17.4	15.9	15.9	15.9	17.4
62°	14.3	15.9	15.9	14.3	14.3	14.3	14.3	15.9
63°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
64°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
65°	12.8	12.8	12.8	12.8	12.8	12.8	11.0	12.8
66°	11.0	12.8	12.8	11.0	11.0	11.0	11.0	11.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212388

CATALOG NUMBER: LDSQA4A35940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	7.9	7.9	7.9	7.9	7.9	6.3	6.3	6.3
75°	7.9	6.3	6.3	6.3	6.3	6.3	6.3	4.7
77.5°	6.3	6.3	6.3	6.3	4.7	4.7	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1
82.5°	4.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab
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67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7

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67.5°	4.7	4.7	6.3	6.3	6.3	6.3	4.7	4.7	4.7	6.3	6.3
70°	4.7	6.3	6.3	6.3	6.3	6.3	6.3	4.7	4.7	6.3	6.3

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

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67.5°	7.9	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0
70°	7.9	7.9	9.5	9.5	9.5	11.0	11.0	9.5	9.5	9.5	9.5

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67.5°	11.0	11.0	11.0	11.0	9.5	9.5	9.5	9.5
70°	9.5	9.5	9.5	9.5	7.9	7.9	7.9	7.9

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(END OF REPORT)