

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: P1212332

Luminaire Tested: **LDSQA4A30940D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212332
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: LDSQA4A30940D010TE 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

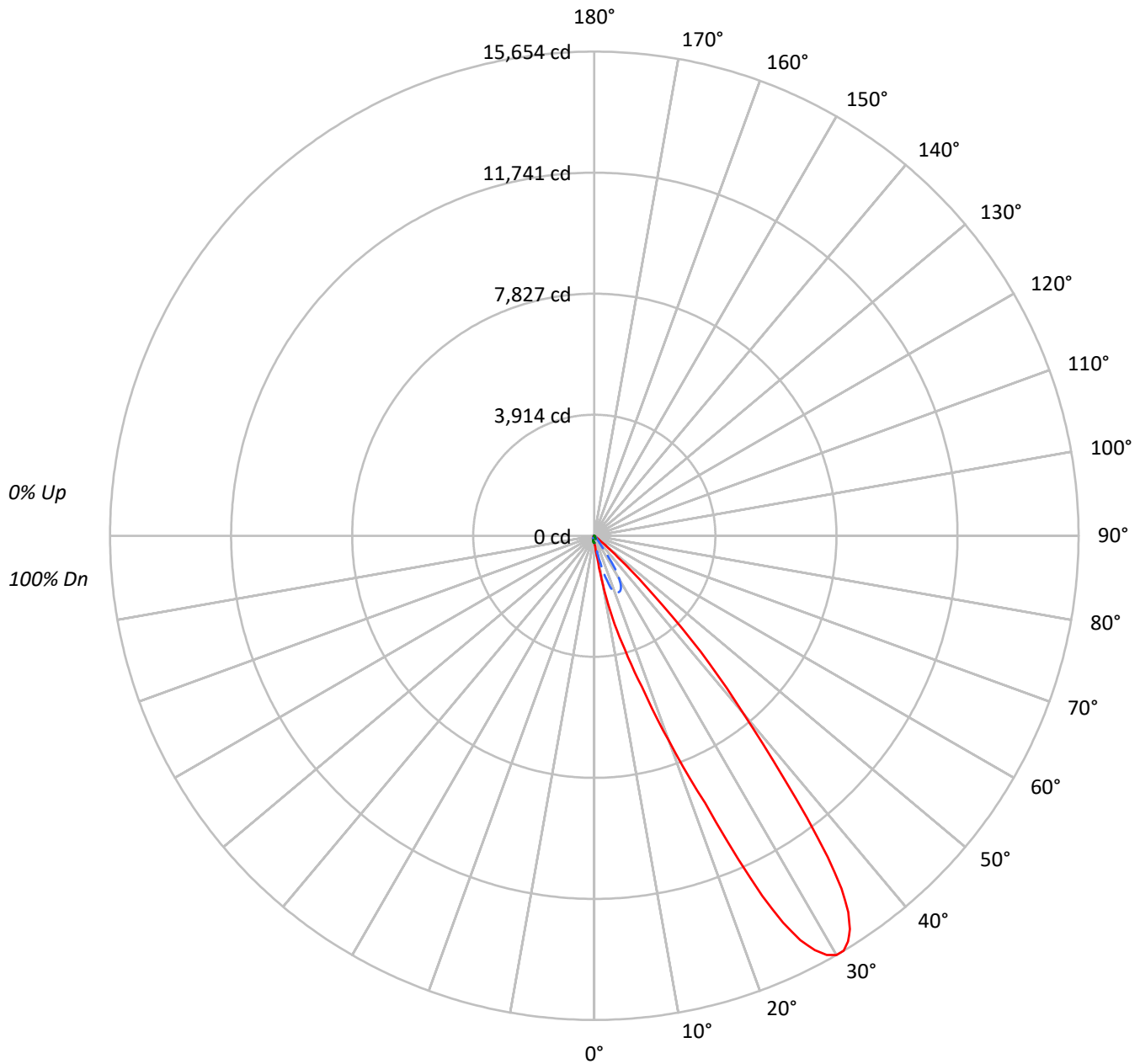
Lumens per Lamp: N/A
Luminaire Lumens: 2457.3 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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°	22465	22465	22465
5°	35679	21355	18438
10°	156310	18917	15700
15°	381925	15325	13680
20°	728659	11392	12515
25°	1373229	8166	10935
30°	1750955	5806	9609
35°	1647097	3560	8231
40°	944885	2415	7069
45°	364756	1685	5973
50°	48514	1221	4943
55°	7364	1149	4138
60°	2131	1046	3429
65°	1238	1238	2521
70°	765	1530	1926
75°	1011	1535	1535
80°	0	2287	1506
85°	0	4557	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.2
10°-20°	263.3	10.7
20°-30°	839.8	34.2
30°-40°	973.2	39.6
40°-50°	316.5	12.9
50°-60°	20.0	0.8
60°-70°	7.3	0.3
70°-80°	5.1	0.2
80°-90°	3.1	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°	1132.1	46.1
0°-40°	2105.3	85.7
0°-60°	2441.8	99.4
0°-90°	2457.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	232	232	232	232	232	
5°	367	307	220	192	190	71
15°	3808	1372	153	131	136	1207
25°	12847	1974	76	80	102	5773
35°	13927	470	30	46	70	8013
45°	2662	57	12	27	44	2377
55°	44	11	7	15	24	68
65°	5	4	5	11	11	5
75°	3	4	4	7	4	2
85°	0	3	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°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9
2.5°	282.4	285.1	285.1	280.9	280.9	276.8	274.1	272.8	271.4	267.4	266.0
5°	366.9	369.6	371.0	360.1	356.0	347.8	341.0	334.1	326.0	316.4	306.9
7.5°	707.9	650.7	660.1	578.3	563.3	527.8	499.2	454.1	421.5	388.7	362.8
10°	1589.0	1534.4	1524.9	1404.8	1286.2	1197.6	1102.1	937.0	787.0	627.4	497.9
12.5°	2722.4	2641.9	2597.0	2361.0	2221.9	2091.0	1945.0	1687.2	1399.4	1154.0	897.4
15°	3808.1	3801.3	3640.4	3377.1	3112.6	2951.6	2763.4	2444.2	2103.3	1729.5	1372.2
17.5°	5118.9	5172.1	4896.6	4382.4	3963.6	3701.8	3442.7	2943.4	2517.9	2155.0	1763.6
20°	7068.0	6926.1	6444.6	5639.9	4932.0	4537.9	4135.5	3400.3	2790.6	2351.4	1954.6
22.5°	9358.1	9248.9	8348.8	7006.6	5884.1	5330.3	4776.5	3820.4	3026.6	2457.9	1991.4
25°	12847.1	12398.4	10651.2	8472.9	6757.1	5972.7	5262.1	4093.2	3133.0	2471.5	1973.7
26°	13917.8	13602.7	11586.8	9055.3	7025.7	6150.0	5383.5	4149.1	3141.2	2459.2	1939.5
27°	14677.5	14437.4	12365.6	9483.5	7220.8	6272.9	5462.6	4172.3	3122.1	2433.3	1893.2
28°	15178.0	14985.7	12953.4	9793.1	7339.5	6338.3	5500.8	4166.9	3083.9	2388.3	1827.7
29°	15495.8	15310.4	13297.2	9969.1	7381.7	6349.2	5491.2	4126.0	3022.5	2321.5	1733.5
30°	15652.8	15450.8	13413.1	9988.2	7335.3	6286.4	5419.0	4035.9	2938.0	2241.0	1629.9
31°	15654.1	15430.4	13316.3	9840.9	7197.5	6152.7	5290.8	3885.8	2827.5	2145.5	1490.8
32°	15472.6	15242.1	12993.0	9542.2	6982.0	5985.0	5118.9	3733.2	2711.5	2039.1	1290.3
33°	15168.6	14895.8	12432.4	9127.6	6706.6	5755.9	4912.9	3562.7	2595.6	1868.6	1027.1
34°	14677.5	14305.1	11649.5	8624.3	6373.8	5488.5	4677.0	3378.5	2478.3	1631.3	733.8
35°	13927.4	13402.1	10743.8	8067.7	6017.7	5199.4	4411.1	3186.1	2335.0	1338.0	470.5
36°	12841.7	12163.8	9801.4	7492.2	5650.9	4895.3	4141.0	3000.7	2108.7	1014.7	308.3
37°	11424.4	10827.1	8899.8	6912.5	5270.3	4570.6	3894.1	2813.8	1830.4	709.3	251.0
38°	9969.1	9528.6	8018.7	6336.9	4876.2	4220.1	3594.0	2618.8	1526.3	466.5	210.1
39°	8657.0	8362.3	7156.6	5766.8	4469.7	3913.2	3294.0	2370.5	1201.6	331.4	177.3
40°	7471.7	7268.5	6323.3	5185.8	4063.3	3542.2	3011.6	2066.4	866.1	264.6	148.7
42.5°	5095.7	4994.8	4423.3	3731.8	3006.1	2707.5	2371.9	1242.5	343.7	167.8	90.1
45°	2662.4	2618.8	2411.4	2185.1	1960.0	1882.2	1524.9	557.9	193.7	98.2	57.3
47.5°	1036.5	1039.4	859.3	733.8	697.0	647.8	491.0	200.5	109.2	60.0	38.2
50°	321.9	346.5	319.1	301.5	230.5	192.3	159.6	99.6	58.6	36.8	24.5
51°	197.7	210.1	197.7	197.7	162.3	141.8	121.4	76.4	46.3	30.1	21.8
52°	128.3	135.0	128.3	120.0	111.9	100.9	87.3	57.3	36.8	24.5	17.7
53°	87.3	91.4	87.3	81.8	75.0	69.6	61.4	42.3	30.1	20.5	15.0
54°	61.4	64.1	61.4	57.3	53.2	49.2	45.0	32.8	24.5	17.7	13.7
55°	43.6	46.3	45.0	42.3	38.2	36.8	34.1	25.9	20.5	15.0	11.0
57.5°	20.5	21.8	21.8	20.5	20.5	19.1	17.7	16.4	12.3	9.5	8.1
60°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	8.1	6.8	6.8
61°	8.1	8.1	8.1	8.1	8.1	8.1	9.5	8.1	6.8	6.8	5.4
62°	6.8	6.8	6.8	6.8	6.8	8.1	8.1	6.8	6.8	5.4	5.4
63°	5.4	5.4	5.4	5.4	6.8	6.8	6.8	6.8	5.4	5.4	5.4
64°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.1
65°	5.4	5.4	4.1	4.1	4.1	5.4	4.1	5.4	4.1	4.1	4.1
66°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1
77.5°	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	2.7	2.7	4.1
80°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	2.7
82.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	2.7	2.7
85°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	2.7	2.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9
2.5°	257.8	251.0	248.3	245.5	244.2	241.4	237.3	233.2	231.9	226.5	220.9
5°	290.5	278.2	268.7	259.1	256.4	249.6	241.4	231.9	227.8	219.6	212.8
7.5°	328.7	304.2	286.5	270.1	263.3	255.0	240.0	227.8	219.6	207.4	199.1
10°	392.8	335.5	301.5	272.8	261.9	251.0	231.9	215.5	204.6	192.3	182.7
12.5°	622.0	435.0	327.4	274.1	259.1	242.8	219.6	200.5	186.9	173.2	165.1
15°	980.7	662.9	424.2	287.8	253.7	229.2	201.8	180.0	166.4	152.8	144.5
17.5°	1309.4	892.0	553.8	320.6	256.4	216.8	180.0	158.2	143.2	131.0	125.4
20°	1467.6	999.8	616.5	327.4	240.0	193.7	155.5	135.0	121.4	110.5	105.0
22.5°	1482.6	992.9	578.3	279.6	199.1	163.6	131.0	111.9	100.9	92.8	87.3
25°	1411.7	881.1	463.8	206.0	155.5	136.4	107.8	91.4	83.2	76.4	72.3
26°	1357.1	817.0	407.8	178.7	141.8	124.1	98.2	84.5	76.4	71.0	66.8
27°	1282.1	742.0	342.4	154.1	131.0	111.9	90.1	77.7	71.0	66.8	62.7
28°	1192.1	668.3	283.7	136.4	118.6	100.9	83.2	71.0	65.4	61.4	57.3
29°	1095.3	571.4	222.3	122.7	106.3	91.4	75.0	64.1	58.6	55.9	53.2
30°	958.8	444.7	170.5	110.5	95.5	81.8	68.3	58.6	54.6	51.9	49.2
31°	766.6	305.6	137.7	98.2	85.9	73.7	61.4	53.2	49.2	46.3	45.0
32°	549.6	188.3	120.0	87.3	76.4	66.8	53.2	47.7	43.6	42.3	40.9
33°	338.2	154.1	106.3	77.7	66.8	58.6	47.7	42.3	39.6	38.2	36.8
34°	222.3	133.7	94.1	66.8	58.6	50.5	40.9	36.8	35.5	34.1	34.1
35°	188.3	118.6	81.8	57.3	49.2	43.6	35.5	32.8	31.4	30.1	31.4
36°	162.3	103.6	68.3	49.2	42.3	36.8	31.4	28.6	27.2	27.2	28.6
37°	143.2	87.3	57.3	40.9	36.8	32.8	27.2	25.9	24.5	24.5	25.9
38°	121.4	71.0	47.7	35.5	31.4	27.2	24.5	23.2	23.2	23.2	24.5
39°	99.6	60.0	40.9	30.1	27.2	24.5	21.8	20.5	20.5	21.8	21.8
40°	81.8	50.5	34.1	25.9	23.2	21.8	19.1	19.1	19.1	19.1	20.5
42.5°	53.2	34.1	24.5	19.1	17.7	16.4	15.0	15.0	15.0	15.0	16.4
45°	35.5	24.5	19.1	15.0	13.7	12.3	12.3	11.0	12.3	12.3	13.7
47.5°	24.5	17.7	13.7	11.0	9.5	8.1	8.1	8.1	9.5	11.0	11.0
50°	17.7	12.3	9.5	6.8	6.8	6.8	6.8	6.8	8.1	8.1	9.5
51°	15.0	11.0	8.1	6.8	6.8	5.4	5.4	5.4	6.8	8.1	9.5
52°	12.3	9.5	6.8	5.4	5.4	5.4	5.4	5.4	6.8	6.8	8.1
53°	11.0	8.1	6.8	5.4	5.4	5.4	5.4	5.4	6.8	6.8	8.1
54°	9.5	6.8	5.4	5.4	5.4	4.1	4.1	5.4	5.4	6.8	8.1
55°	8.1	6.8	5.4	5.4	4.1	4.1	4.1	4.1	5.4	6.8	6.8
57.5°	6.8	5.4	5.4	4.1	4.1	4.1	4.1	4.1	5.4	5.4	6.8
60°	5.4	5.4	5.4	4.1	4.1	4.1	4.1	4.1	5.4	5.4	6.8
61°	5.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.4	5.4	6.8
62°	5.4	4.1	5.4	5.4	5.4	4.1	4.1	4.1	5.4	5.4	6.8
63°	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	5.4	5.4	5.4
64°	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4	6.8
65°	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4	6.8
66°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	5.4	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.1	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4
75°	4.1	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	5.4
77.5°	4.1	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	5.4
80°	4.1	4.1	5.4	5.4	5.4	5.4	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	5.4	5.4	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	4.1	4.1	5.4	5.4	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9
2.5°	218.2	218.2	216.8	214.1	216.8	214.1	211.4	210.1	208.7	207.4	204.6
5°	207.4	206.0	203.2	201.8	201.8	199.1	196.4	193.7	192.3	191.0	188.3
7.5°	193.7	192.3	188.3	186.9	186.9	184.1	180.0	178.7	177.3	175.9	173.2
10°	177.3	175.9	171.9	170.5	170.5	167.8	165.1	162.3	160.9	159.6	156.8
12.5°	158.2	156.8	154.1	152.8	152.8	150.1	147.4	146.0	146.0	144.5	143.2
15°	139.1	137.7	135.0	135.0	135.0	132.3	131.0	129.6	131.0	131.0	129.6
17.5°	120.0	118.6	115.9	115.9	115.9	115.9	114.6	114.6	115.9	117.3	117.3
20°	100.9	99.6	99.6	98.2	99.6	100.9	99.6	100.9	103.6	105.0	106.3
22.5°	83.2	83.2	83.2	83.2	84.5	85.9	85.9	88.7	91.4	92.8	95.5
25°	69.6	69.6	71.0	71.0	72.3	73.7	75.0	76.4	80.5	83.2	84.5
26°	64.1	65.4	65.4	66.8	68.3	69.6	71.0	72.3	76.4	79.1	80.5
27°	60.0	60.0	61.4	62.7	64.1	65.4	66.8	69.6	72.3	75.0	77.7
28°	55.9	55.9	57.3	58.6	60.0	61.4	62.7	65.4	68.3	72.3	73.7
29°	51.9	53.2	53.2	54.6	55.9	57.3	60.0	61.4	65.4	68.3	71.0
30°	47.7	49.2	50.5	50.5	51.9	53.2	55.9	58.6	61.4	65.4	66.8
31°	45.0	46.3	46.3	47.7	49.2	50.5	53.2	55.9	58.6	61.4	64.1
32°	40.9	43.6	43.6	43.6	45.0	47.7	50.5	51.9	55.9	58.6	60.0
33°	38.2	39.6	40.9	40.9	42.3	45.0	47.7	49.2	53.2	55.9	57.3
34°	35.5	36.8	38.2	38.2	39.6	42.3	45.0	46.3	50.5	51.9	54.6
35°	32.8	34.1	35.5	35.5	36.8	39.6	42.3	43.6	46.3	49.2	51.9
36°	30.1	31.4	32.8	34.1	35.5	38.2	39.6	42.3	43.6	46.3	49.2
37°	27.2	28.6	31.4	31.4	34.1	35.5	38.2	39.6	42.3	43.6	46.3
38°	24.5	27.2	28.6	30.1	31.4	34.1	35.5	36.8	39.6	42.3	43.6
39°	23.2	25.9	27.2	28.6	30.1	31.4	32.8	35.5	36.8	39.6	40.9
40°	21.8	23.2	25.9	25.9	28.6	30.1	31.4	32.8	35.5	36.8	39.6
42.5°	17.7	20.5	21.8	23.2	24.5	25.9	27.2	28.6	30.1	32.8	34.1
45°	15.0	17.7	19.1	19.1	20.5	21.8	23.2	24.5	27.2	28.6	30.1
47.5°	12.3	15.0	16.4	17.7	17.7	19.1	20.5	21.8	23.2	24.5	25.9
50°	11.0	12.3	13.7	15.0	16.4	16.4	17.7	19.1	20.5	21.8	21.8
51°	11.0	12.3	13.7	13.7	15.0	16.4	17.7	17.7	19.1	20.5	20.5
52°	9.5	11.0	12.3	13.7	15.0	15.0	16.4	17.7	17.7	19.1	20.5
53°	9.5	11.0	12.3	12.3	13.7	15.0	15.0	16.4	17.7	17.7	19.1
54°	8.1	11.0	12.3	12.3	13.7	13.7	15.0	16.4	16.4	16.4	17.7
55°	8.1	9.5	11.0	12.3	12.3	13.7	13.7	15.0	15.0	16.4	16.4
57.5°	8.1	9.5	11.0	11.0	12.3	12.3	13.7	13.7	13.7	13.7	15.0
60°	6.8	8.1	9.5	11.0	11.0	12.3	12.3	12.3	12.3	12.3	13.7
61°	6.8	8.1	9.5	9.5	11.0	11.0	12.3	12.3	12.3	12.3	12.3
62°	6.8	8.1	9.5	9.5	11.0	11.0	11.0	12.3	12.3	12.3	12.3
63°	6.8	8.1	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0	12.3
64°	6.8	8.1	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0
65°	6.8	8.1	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0
66°	6.8	8.1	9.5	9.5	9.5	9.5	11.0	11.0	11.0	11.0	9.5

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212332

CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.4	6.8	6.8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	6.8
75°	5.4	6.8	6.8	6.8	8.1	8.1	8.1	6.8	6.8	6.8	6.8
77.5°	5.4	5.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.4	5.4
80°	5.4	5.4	5.4	6.8	6.8	6.8	6.8	5.4	5.4	5.4	4.1
82.5°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1
85°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	2.7
87.5°	4.1	4.1	4.1	5.4	5.4	5.4	4.1	4.1	2.7	2.7	2.7
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: P1212332

CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9
2.5°	207.4	208.7	207.4	207.4	204.6	206.0	203.2	207.4
5°	189.6	191.0	189.6	189.6	186.9	186.9	185.5	189.6
7.5°	174.6	175.9	173.2	173.2	170.5	171.9	170.5	173.2
10°	159.6	159.6	159.6	158.2	156.8	158.2	156.8	159.6
12.5°	144.5	146.0	146.0	146.0	144.5	144.5	143.2	147.4
15°	132.3	133.7	135.0	135.0	133.7	135.0	133.7	136.4
17.5°	121.4	124.1	124.1	125.4	125.4	126.9	126.9	129.6
20°	110.5	114.6	114.6	115.9	115.9	118.6	118.6	121.4
22.5°	99.6	103.6	105.0	105.0	106.3	109.2	109.2	111.9
25°	90.1	94.1	95.5	95.5	96.8	99.6	99.6	102.3
26°	85.9	90.1	91.4	92.8	94.1	96.8	96.8	99.6
27°	81.8	85.9	87.3	88.7	90.1	92.8	92.8	95.5
28°	79.1	83.2	84.5	85.9	87.3	90.1	90.1	91.4
29°	75.0	79.1	80.5	81.8	83.2	85.9	85.9	88.7
30°	72.3	75.0	76.4	77.7	79.1	83.2	83.2	85.9
31°	68.3	72.3	73.7	75.0	76.4	79.1	79.1	83.2
32°	65.4	68.3	69.6	71.0	73.7	75.0	76.4	79.1
33°	61.4	65.4	66.8	68.3	69.6	72.3	73.7	76.4
34°	58.6	61.4	64.1	65.4	66.8	69.6	71.0	73.7
35°	55.9	58.6	60.0	61.4	64.1	66.8	66.8	69.6
36°	53.2	55.9	57.3	58.6	61.4	64.1	64.1	66.8
37°	50.5	53.2	54.6	55.9	58.6	61.4	61.4	64.1
38°	47.7	50.5	51.9	53.2	55.9	58.6	60.0	62.7
39°	45.0	49.2	50.5	51.9	53.2	55.9	57.3	58.6
40°	43.6	46.3	47.7	49.2	50.5	53.2	54.6	55.9
42.5°	36.8	40.9	42.3	43.6	45.0	46.3	47.7	49.2
45°	32.8	35.5	35.5	36.8	38.2	40.9	40.9	43.6
47.5°	28.6	30.1	31.4	31.4	32.8	35.5	35.5	36.8
50°	24.5	25.9	27.2	27.2	28.6	30.1	31.4	32.8
51°	23.2	24.5	24.5	25.9	27.2	28.6	30.1	31.4
52°	21.8	23.2	23.2	24.5	25.9	27.2	27.2	28.6
53°	20.5	21.8	21.8	23.2	23.2	25.9	25.9	27.2
54°	19.1	20.5	20.5	21.8	21.8	24.5	24.5	25.9
55°	17.7	19.1	20.5	20.5	20.5	21.8	23.2	24.5
57.5°	16.4	17.7	17.7	17.7	19.1	19.1	20.5	20.5
60°	13.7	15.0	15.0	15.0	16.4	16.4	16.4	17.7
61°	13.7	13.7	15.0	15.0	13.7	13.7	13.7	15.0
62°	12.3	13.7	13.7	12.3	12.3	12.3	12.3	13.7
63°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
64°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
65°	11.0	11.0	11.0	11.0	11.0	11.0	9.5	11.0
66°	9.5	11.0	11.0	9.5	9.5	9.5	9.5	9.5

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212332

CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	6.8	6.8	6.8	6.8	6.8	5.4	5.4	5.4
75°	6.8	5.4	5.4	5.4	5.4	5.4	5.4	4.1
77.5°	5.4	5.4	5.4	5.4	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7
82.5°	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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67.5°	4.1	4.1	5.4	5.4	5.4	5.4	4.1	4.1	4.1	5.4	5.4
70°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4

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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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67.5°	6.8	8.1	8.1	8.1	9.5	9.5	9.5	9.5	9.5	9.5	9.5
70°	6.8	6.8	8.1	8.1	8.1	9.5	9.5	8.1	8.1	8.1	8.1

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67.5°	9.5	9.5	9.5	9.5	8.1	8.1	8.1	8.1
70°	8.1	8.1	8.1	8.1	6.8	6.8	6.8	6.8

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Peachtree City, GA 30269

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(END OF REPORT)