

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: P1219559

Luminaire Tested: **LDSQA4A30950D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219559
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: LDSQA4A30950D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

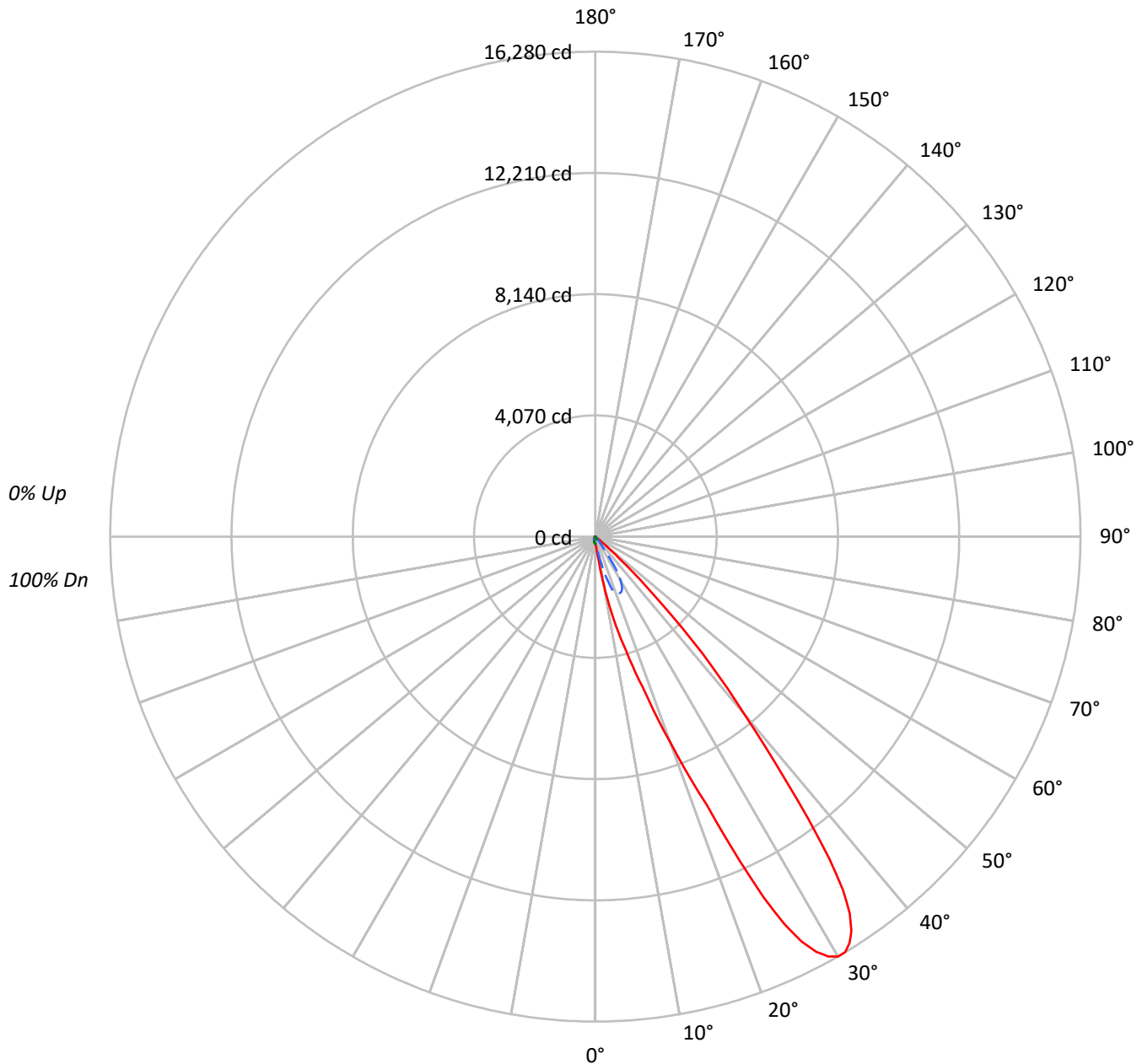
Lumens per Lamp: N/A
Luminaire Lumens: 2555.6 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84
3	99	91	85	81	97	90	85	80	87	83	79	85	81	78	82	79	76
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23366	23366	23366
5°	37109	22211	19177
10°	162566	19674	16329
15°	397200	15937	14232
20°	757803	11845	13021
25°	1428160	8498	11373
30°	1820992	6041	9989
35°	1712981	3702	8562
40°	982685	2517	7347
45°	379346	1754	6206
50°	50458	1266	5139
55°	7651	1199	4307
60°	2209	1085	3565
65°	1284	1284	2613
70°	793	1586	2011
75°	1048	1609	1609
80°	0	2399	1562
85°	0	4780	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	1.2
10°-20°	273.9	10.7
20°-30°	873.4	34.2
30°-40°	1012.1	39.6
40°-50°	329.1	12.9
50°-60°	20.8	0.8
60°-70°	7.6	0.3
70°-80°	5.4	0.2
80°-90°	3.2	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°	1177.4	46.1
0°-40°	2189.5	85.7
0°-60°	2539.5	99.4
0°-90°	2555.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	241	241	241	241	241	
5°	382	319	228	200	197	74
15°	3960	1427	159	136	142	1256
25°	13361	2053	80	84	106	6003
35°	14484	489	31	48	72	8334
45°	2769	60	13	28	45	2472
55°	45	11	7	16	26	70
65°	6	4	6	11	11	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°	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2
2.5°	293.7	296.5	296.5	292.1	292.1	287.9	285.1	283.7	282.3	278.1	276.6
5°	381.6	384.4	385.8	374.5	370.2	361.7	354.6	347.5	339.0	329.1	319.2
7.5°	736.2	676.7	686.5	601.4	585.8	548.9	519.2	472.3	438.4	404.2	377.3
10°	1652.6	1595.8	1585.9	1461.0	1337.6	1245.5	1146.2	974.5	818.5	652.5	517.8
12.5°	2831.3	2747.6	2700.9	2455.4	2310.8	2174.6	2022.8	1754.7	1455.4	1200.2	933.3
15°	3960.4	3953.4	3786.0	3512.2	3237.1	3069.7	2873.9	2542.0	2187.4	1798.7	1427.1
17.5°	5323.7	5379.0	5092.5	4557.7	4122.1	3849.9	3580.4	3061.1	2618.6	2241.2	1834.1
20°	7350.7	7203.1	6702.4	5865.5	5129.3	4719.4	4300.9	3536.3	2902.2	2445.5	2032.8
22.5°	9732.4	9618.9	8682.8	7286.9	6119.5	5543.5	4967.6	3973.2	3147.7	2556.2	2071.1
25°	13361.0	12894.3	11077.2	8811.8	7027.4	6211.6	5472.6	4256.9	3258.3	2570.4	2052.6
26°	14474.5	14146.8	12050.3	9417.5	7306.7	6396.0	5598.8	4315.1	3266.8	2557.6	2017.1
27°	15264.6	15014.9	12860.2	9862.8	7509.6	6523.8	5681.1	4339.2	3247.0	2530.6	1968.9
28°	15785.1	15585.1	13471.5	10184.8	7633.1	6591.8	5720.8	4333.6	3207.3	2483.8	1900.8
29°	16115.6	15922.8	13829.1	10367.9	7677.0	6603.2	5710.8	4291.0	3143.4	2414.4	1802.8
30°	16278.9	16068.8	13949.6	10387.7	7628.7	6537.9	5635.8	4197.3	3055.5	2330.6	1695.1
31°	16280.3	16047.6	13849.0	10234.5	7485.4	6398.8	5502.4	4041.2	2940.6	2231.3	1550.4
32°	16091.5	15851.8	13512.7	9923.9	7261.3	6224.4	5323.7	3882.5	2820.0	2120.7	1341.9
33°	15775.3	15491.6	12929.7	9492.7	6974.9	5986.1	5109.4	3705.2	2699.4	1943.3	1068.2
34°	15264.6	14877.3	12115.5	8969.3	6628.8	5708.0	4864.1	3513.6	2577.4	1696.6	763.2
35°	14484.5	13938.2	11173.6	8390.4	6258.4	5407.4	4587.5	3313.5	2428.4	1391.5	489.3
36°	13355.4	12650.4	10193.5	7791.9	5876.9	5091.1	4306.6	3120.7	2193.0	1055.3	320.6
37°	11881.4	11260.2	9255.8	7189.0	5481.1	4753.4	4049.9	2926.4	1903.6	737.7	261.0
38°	10367.9	9909.7	8339.4	6590.4	5071.2	4388.9	3737.8	2723.6	1587.4	485.2	218.5
39°	9003.3	8696.8	7442.9	5997.5	4648.5	4069.7	3425.8	2465.3	1249.7	344.7	184.4
40°	7770.6	7559.2	6576.2	5393.2	4225.8	3683.9	3132.1	2149.1	900.7	275.2	154.6
42.5°	5299.5	5194.6	4600.2	3881.1	3126.3	2815.8	2466.8	1292.2	357.4	174.5	93.7
45°	2768.9	2723.6	2507.9	2272.5	2038.4	1957.5	1585.9	580.2	201.4	102.1	59.6
47.5°	1078.0	1081.0	893.7	763.2	724.9	673.7	510.6	208.5	113.6	62.4	39.7
50°	334.8	360.4	331.9	313.6	239.7	200.0	166.0	103.6	60.9	38.3	25.5
51°	205.6	218.5	205.6	205.6	168.8	147.5	126.3	79.5	48.2	31.3	22.7
52°	133.4	140.4	133.4	124.8	116.4	104.9	90.8	59.6	38.3	25.5	18.4
53°	90.8	95.1	90.8	85.1	78.0	72.4	63.9	44.0	31.3	21.3	15.6
54°	63.9	66.7	63.9	59.6	55.3	51.2	46.8	34.1	25.5	18.4	14.2
55°	45.3	48.2	46.8	44.0	39.7	38.3	35.5	26.9	21.3	15.6	11.4
57.5°	21.3	22.7	22.7	21.3	21.3	19.9	18.4	17.1	12.8	9.9	8.4
60°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	8.4	7.1	7.1
61°	8.4	8.4	8.4	8.4	8.4	8.4	9.9	8.4	7.1	7.1	5.6
62°	7.1	7.1	7.1	7.1	7.1	8.4	8.4	7.1	7.1	5.6	5.6
63°	5.6	5.6	5.6	5.6	7.1	7.1	7.1	7.1	5.6	5.6	5.6
64°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.3
65°	5.6	5.6	4.3	4.3	4.3	5.6	4.3	5.6	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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
77.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.8	2.8	4.3
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.8	2.8
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.8	2.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2
2.5°	268.1	261.0	258.2	255.3	254.0	251.1	246.8	242.5	241.2	235.6	229.7
5°	302.1	289.3	279.4	269.5	266.7	259.6	251.1	241.2	236.9	228.4	221.3
7.5°	341.8	316.4	298.0	280.9	273.8	265.2	249.6	236.9	228.4	215.7	207.1
10°	408.5	348.9	313.6	283.7	272.4	261.0	241.2	224.1	212.8	200.0	190.0
12.5°	646.9	452.4	340.5	285.1	269.5	252.5	228.4	208.5	194.4	180.1	171.7
15°	1019.9	689.4	441.2	299.3	263.8	238.4	209.9	187.2	173.1	158.9	150.3
17.5°	1361.8	927.7	576.0	333.4	266.7	225.5	187.2	164.5	148.9	136.2	130.4
20°	1526.3	1039.8	641.2	340.5	249.6	201.4	161.7	140.4	126.3	114.9	109.2
22.5°	1541.9	1032.6	601.4	290.8	207.1	170.1	136.2	116.4	104.9	96.5	90.8
25°	1468.2	916.3	482.4	214.2	161.7	141.9	112.1	95.1	86.5	79.5	75.2
26°	1411.4	849.7	424.1	185.8	147.5	129.1	102.1	87.9	79.5	73.8	69.5
27°	1333.4	771.7	356.1	160.3	136.2	116.4	93.7	80.8	73.8	69.5	65.2
28°	1239.8	695.0	295.0	141.9	123.3	104.9	86.5	73.8	68.0	63.9	59.6
29°	1139.1	594.3	231.2	127.6	110.6	95.1	78.0	66.7	60.9	58.1	55.3
30°	997.2	462.5	177.3	114.9	99.3	85.1	71.0	60.9	56.8	54.0	51.2
31°	797.3	317.8	143.2	102.1	89.3	76.6	63.9	55.3	51.2	48.2	46.8
32°	571.6	195.8	124.8	90.8	79.5	69.5	55.3	49.6	45.3	44.0	42.5
33°	351.7	160.3	110.6	80.8	69.5	60.9	49.6	44.0	41.2	39.7	38.3
34°	231.2	139.0	97.9	69.5	60.9	52.5	42.5	38.3	36.9	35.5	35.5
35°	195.8	123.3	85.1	59.6	51.2	45.3	36.9	34.1	32.7	31.3	32.7
36°	168.8	107.7	71.0	51.2	44.0	38.3	32.7	29.7	28.3	28.3	29.7
37°	148.9	90.8	59.6	42.5	38.3	34.1	28.3	26.9	25.5	25.5	26.9
38°	126.3	73.8	49.6	36.9	32.7	28.3	25.5	24.1	24.1	24.1	25.5
39°	103.6	62.4	42.5	31.3	28.3	25.5	22.7	21.3	21.3	22.7	22.7
40°	85.1	52.5	35.5	26.9	24.1	22.7	19.9	19.9	19.9	19.9	21.3
42.5°	55.3	35.5	25.5	19.9	18.4	17.1	15.6	15.6	15.6	15.6	17.1
45°	36.9	25.5	19.9	15.6	14.2	12.8	12.8	11.4	12.8	12.8	14.2
47.5°	25.5	18.4	14.2	11.4	9.9	8.4	8.4	8.4	9.9	11.4	11.4
50°	18.4	12.8	9.9	7.1	7.1	7.1	7.1	7.1	8.4	8.4	9.9
51°	15.6	11.4	8.4	7.1	7.1	5.6	5.6	5.6	7.1	8.4	9.9
52°	12.8	9.9	7.1	5.6	5.6	5.6	5.6	5.6	7.1	7.1	8.4
53°	11.4	8.4	7.1	5.6	5.6	5.6	5.6	5.6	7.1	7.1	8.4
54°	9.9	7.1	5.6	5.6	5.6	4.3	4.3	5.6	5.6	7.1	8.4
55°	8.4	7.1	5.6	5.6	4.3	4.3	4.3	4.3	5.6	7.1	7.1
57.5°	7.1	5.6	5.6	4.3	4.3	4.3	4.3	4.3	5.6	5.6	7.1
60°	5.6	5.6	5.6	4.3	4.3	4.3	4.3	4.3	5.6	5.6	7.1
61°	5.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.6	5.6	7.1
62°	5.6	4.3	5.6	5.6	5.6	4.3	4.3	4.3	5.6	5.6	7.1
63°	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	5.6	5.6	5.6
64°	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6	7.1
65°	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6	7.1
66°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	5.6	5.6	5.6



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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	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6
75°	4.3	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	5.6
77.5°	4.3	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	5.6
80°	4.3	4.3	5.6	5.6	5.6	5.6	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	5.6	5.6	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	5.6	5.6	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°	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2
2.5°	226.9	226.9	225.5	222.7	225.5	222.7	219.9	218.5	217.0	215.7	212.8
5°	215.7	214.2	211.3	209.9	209.9	207.1	204.3	201.4	200.0	198.6	195.8
7.5°	201.4	200.0	195.8	194.4	194.4	191.5	187.2	185.8	184.4	182.9	180.1
10°	184.4	182.9	178.8	177.3	177.3	174.5	171.7	168.8	167.3	166.0	163.1
12.5°	164.5	163.1	160.3	158.9	158.9	156.1	153.3	151.8	151.8	150.3	148.9
15°	144.7	143.2	140.4	140.4	140.4	137.6	136.2	134.8	136.2	136.2	134.8
17.5°	124.8	123.3	120.5	120.5	120.5	120.5	119.2	119.2	120.5	122.0	122.0
20°	104.9	103.6	103.6	102.1	103.6	104.9	103.6	104.9	107.7	109.2	110.6
22.5°	86.5	86.5	86.5	86.5	87.9	89.3	89.3	92.2	95.1	96.5	99.3
25°	72.4	72.4	73.8	73.8	75.2	76.6	78.0	79.5	83.7	86.5	87.9
26°	66.7	68.0	68.0	69.5	71.0	72.4	73.8	75.2	79.5	82.3	83.7
27°	62.4	62.4	63.9	65.2	66.7	68.0	69.5	72.4	75.2	78.0	80.8
28°	58.1	58.1	59.6	60.9	62.4	63.9	65.2	68.0	71.0	75.2	76.6
29°	54.0	55.3	55.3	56.8	58.1	59.6	62.4	63.9	68.0	71.0	73.8
30°	49.6	51.2	52.5	52.5	54.0	55.3	58.1	60.9	63.9	68.0	69.5
31°	46.8	48.2	48.2	49.6	51.2	52.5	55.3	58.1	60.9	63.9	66.7
32°	42.5	45.3	45.3	45.3	46.8	49.6	52.5	54.0	58.1	60.9	62.4
33°	39.7	41.2	42.5	42.5	44.0	46.8	49.6	51.2	55.3	58.1	59.6
34°	36.9	38.3	39.7	39.7	41.2	44.0	46.8	48.2	52.5	54.0	56.8
35°	34.1	35.5	36.9	36.9	38.3	41.2	44.0	45.3	48.2	51.2	54.0
36°	31.3	32.7	34.1	35.5	36.9	39.7	41.2	44.0	45.3	48.2	51.2
37°	28.3	29.7	32.7	32.7	35.5	36.9	39.7	41.2	44.0	45.3	48.2
38°	25.5	28.3	29.7	31.3	32.7	35.5	36.9	38.3	41.2	44.0	45.3
39°	24.1	26.9	28.3	29.7	31.3	32.7	34.1	36.9	38.3	41.2	42.5
40°	22.7	24.1	26.9	26.9	29.7	31.3	32.7	34.1	36.9	38.3	41.2
42.5°	18.4	21.3	22.7	24.1	25.5	26.9	28.3	29.7	31.3	34.1	35.5
45°	15.6	18.4	19.9	19.9	21.3	22.7	24.1	25.5	28.3	29.7	31.3
47.5°	12.8	15.6	17.1	18.4	18.4	19.9	21.3	22.7	24.1	25.5	26.9
50°	11.4	12.8	14.2	15.6	17.1	17.1	18.4	19.9	21.3	22.7	22.7
51°	11.4	12.8	14.2	14.2	15.6	17.1	18.4	18.4	19.9	21.3	21.3
52°	9.9	11.4	12.8	14.2	15.6	15.6	17.1	18.4	18.4	19.9	21.3
53°	9.9	11.4	12.8	12.8	14.2	15.6	15.6	17.1	18.4	18.4	19.9
54°	8.4	11.4	12.8	12.8	14.2	14.2	15.6	17.1	17.1	17.1	18.4
55°	8.4	9.9	11.4	12.8	12.8	14.2	14.2	15.6	15.6	17.1	17.1
57.5°	8.4	9.9	11.4	11.4	12.8	12.8	14.2	14.2	14.2	14.2	15.6
60°	7.1	8.4	9.9	11.4	11.4	12.8	12.8	12.8	12.8	12.8	14.2
61°	7.1	8.4	9.9	9.9	11.4	11.4	12.8	12.8	12.8	12.8	12.8
62°	7.1	8.4	9.9	9.9	11.4	11.4	11.4	12.8	12.8	12.8	12.8
63°	7.1	8.4	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4	12.8
64°	7.1	8.4	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4	11.4
65°	7.1	8.4	9.9	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4
66°	7.1	8.4	9.9	9.9	9.9	9.9	11.4	11.4	11.4	11.4	9.9

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219559

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.6	7.1	7.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.1
75°	5.6	7.1	7.1	7.1	8.4	8.4	8.4	7.1	7.1	7.1	7.1
77.5°	5.6	5.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	5.6	5.6
80°	5.6	5.6	5.6	7.1	7.1	7.1	7.1	5.6	5.6	5.6	4.3
82.5°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3
85°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	2.8
87.5°	4.3	4.3	4.3	5.6	5.6	5.6	4.3	4.3	2.8	2.8	2.8
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: P1219559

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	241.2	241.2	241.2	241.2	241.2	241.2	241.2	241.2
2.5°	215.7	217.0	215.7	215.7	212.8	214.2	211.3	215.7
5°	197.2	198.6	197.2	197.2	194.4	194.4	192.9	197.2
7.5°	181.6	182.9	180.1	180.1	177.3	178.8	177.3	180.1
10°	166.0	166.0	166.0	164.5	163.1	164.5	163.1	166.0
12.5°	150.3	151.8	151.8	151.8	150.3	150.3	148.9	153.3
15°	137.6	139.0	140.4	140.4	139.0	140.4	139.0	141.9
17.5°	126.3	129.1	129.1	130.4	130.4	132.0	132.0	134.8
20°	114.9	119.2	119.2	120.5	120.5	123.3	123.3	126.3
22.5°	103.6	107.7	109.2	109.2	110.6	113.6	113.6	116.4
25°	93.7	97.9	99.3	99.3	100.7	103.6	103.6	106.4
26°	89.3	93.7	95.1	96.5	97.9	100.7	100.7	103.6
27°	85.1	89.3	90.8	92.2	93.7	96.5	96.5	99.3
28°	82.3	86.5	87.9	89.3	90.8	93.7	93.7	95.1
29°	78.0	82.3	83.7	85.1	86.5	89.3	89.3	92.2
30°	75.2	78.0	79.5	80.8	82.3	86.5	86.5	89.3
31°	71.0	75.2	76.6	78.0	79.5	82.3	82.3	86.5
32°	68.0	71.0	72.4	73.8	76.6	78.0	79.5	82.3
33°	63.9	68.0	69.5	71.0	72.4	75.2	76.6	79.5
34°	60.9	63.9	66.7	68.0	69.5	72.4	73.8	76.6
35°	58.1	60.9	62.4	63.9	66.7	69.5	69.5	72.4
36°	55.3	58.1	59.6	60.9	63.9	66.7	66.7	69.5
37°	52.5	55.3	56.8	58.1	60.9	63.9	63.9	66.7
38°	49.6	52.5	54.0	55.3	58.1	60.9	62.4	65.2
39°	46.8	51.2	52.5	54.0	55.3	58.1	59.6	60.9
40°	45.3	48.2	49.6	51.2	52.5	55.3	56.8	58.1
42.5°	38.3	42.5	44.0	45.3	46.8	48.2	49.6	51.2
45°	34.1	36.9	36.9	38.3	39.7	42.5	42.5	45.3
47.5°	29.7	31.3	32.7	32.7	34.1	36.9	36.9	38.3
50°	25.5	26.9	28.3	28.3	29.7	31.3	32.7	34.1
51°	24.1	25.5	25.5	26.9	28.3	29.7	31.3	32.7
52°	22.7	24.1	24.1	25.5	26.9	28.3	28.3	29.7
53°	21.3	22.7	22.7	24.1	24.1	26.9	26.9	28.3
54°	19.9	21.3	21.3	22.7	22.7	25.5	25.5	26.9
55°	18.4	19.9	21.3	21.3	21.3	22.7	24.1	25.5
57.5°	17.1	18.4	18.4	18.4	19.9	19.9	21.3	21.3
60°	14.2	15.6	15.6	15.6	17.1	17.1	17.1	18.4
61°	14.2	14.2	15.6	15.6	14.2	14.2	14.2	15.6
62°	12.8	14.2	14.2	12.8	12.8	12.8	12.8	14.2
63°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
64°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
65°	11.4	11.4	11.4	11.4	11.4	11.4	9.9	11.4
66°	9.9	11.4	11.4	9.9	9.9	9.9	9.9	9.9



TEST NUMBER: P1219559

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	7.1	7.1	7.1	7.1	7.1	5.6	5.6	5.6
75°	7.1	5.6	5.6	5.6	5.6	5.6	5.6	4.3
77.5°	5.6	5.6	5.6	5.6	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8
82.5°	4.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	2.8	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





— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	4.3	4.3	5.6	5.6	5.6	5.6	4.3	4.3	4.3	5.6	5.6
70°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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Scaled Data Report





67.5°	7.1	8.4	8.4	8.4	9.9	9.9	9.9	9.9	9.9	9.9	9.9
70°	7.1	7.1	8.4	8.4	8.4	9.9	9.9	8.4	8.4	8.4	8.4

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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
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Scaled Data Report



67.5°	9.9	9.9	9.9	9.9	8.4	8.4	8.4	8.4
70°	8.4	8.4	8.4	8.4	7.1	7.1	7.1	7.1

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)