

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: P1212246

Luminaire Tested: **LDSQA4A25930D010TE LAR15SP 4LSQA1H 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: P1212246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26799)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25930D010TE LAR15SP 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

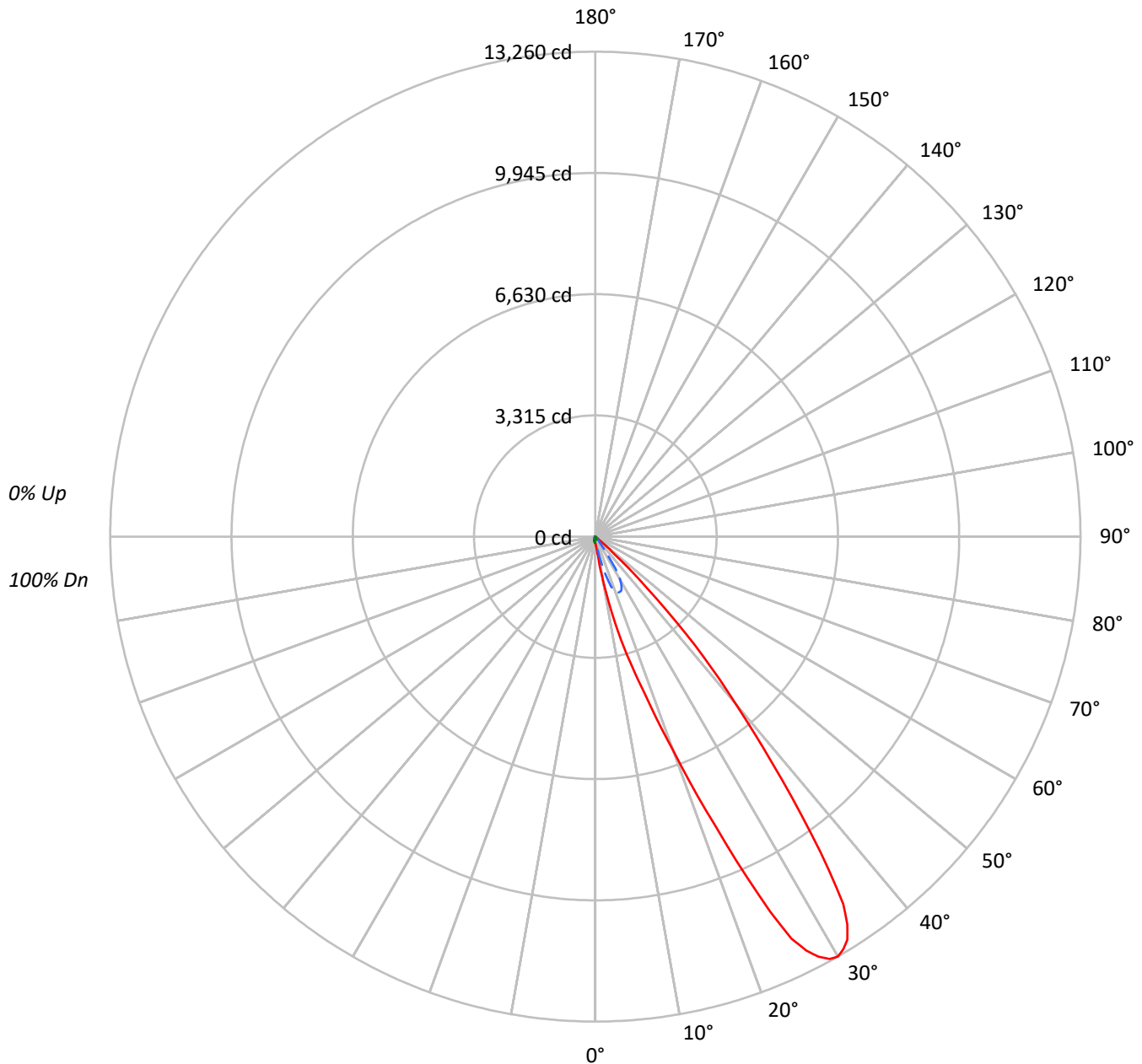
Lumens per Lamp: N/A
Luminaire Lumens: 2039.1 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17031	17031	17031
5°	28357	16075	13712
10°	120946	14077	11903
15°	334777	11183	10551
20°	642133	7928	9443
25°	1210713	5291	8327
30°	1483348	3535	7293
35°	1317368	2353	6221
40°	750817	1606	5198
45°	273868	1302	4329
50°	30142	949	3647
55°	4442	709	3023
60°	1008	814	2461
65°	711	963	1673
70°	595	1190	1473
75°	786	1572	1160
80°	0	2343	1172
85°	0	3446	1223

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	1.1
10°-20°	221.0	10.8
20°-30°	725.8	35.6
30°-40°	795.9	39.0
40°-50°	248.6	12.2
50°-60°	13.6	0.7
60°-70°	5.4	0.3
70°-80°	4.1	0.2
80°-90°	2.6	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°	968.8	47.5
0°-40°	1764.7	86.5
0°-60°	2027.0	99.4
0°-90°	2039.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2039.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	292	234	165	146	141	54
15°	3338	1073	112	100	105	1049
25°	11327	1647	50	61	78	5049
35°	11139	324	20	35	53	6512
45°	1999	34	10	20	32	1835
55°	26	6	4	12	18	41
65°	3	3	4	8	7	3
75°	2	3	4	6	3	1
85°	0	3	3	3	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°	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8
2.5°	216.8	218.9	220.1	214.7	215.8	213.7	215.8	211.6	204.3	206.3	200.0
5°	291.6	287.4	286.4	277.8	275.8	271.6	271.6	262.0	248.4	246.3	233.7
7.5°	515.8	493.7	474.7	446.4	419.0	397.9	389.5	355.9	319.0	305.2	275.8
10°	1229.5	1225.3	1178.0	1088.4	985.3	910.6	867.4	736.9	571.6	470.5	365.3
12.5°	2238.0	2216.9	2149.5	1985.3	1807.4	1695.8	1608.5	1345.3	1100.0	903.2	647.4
15°	3338.0	3252.7	3153.8	2899.0	2649.5	2504.4	2380.0	2064.3	1684.3	1401.1	1072.6
17.5°	4512.8	4550.7	4310.7	3871.7	3428.6	3201.2	2990.6	2505.4	2089.5	1794.8	1425.3
20°	6228.7	6148.6	5726.5	4999.1	4345.3	3965.4	3666.4	2966.4	2339.1	1971.6	1622.1
22.5°	8547.6	8292.9	7469.7	6239.2	5202.3	4674.9	4250.7	3307.5	2548.5	2062.1	1653.7
25°	11326.7	11090.9	9566.6	7431.9	5898.1	5214.9	4638.1	3524.3	2632.7	2076.9	1647.4
26°	12234.1	11883.5	10340.3	7856.1	6111.7	5351.8	4733.8	3566.4	2634.8	2065.3	1620.0
27°	12703.5	12428.8	10980.3	8200.3	6258.1	5438.1	4787.6	3577.0	2613.8	2039.0	1577.9
28°	13013.1	12756.2	11385.7	8425.5	6332.8	5471.8	4803.4	3553.8	2566.4	1992.7	1511.7
29°	13204.7	12934.1	11583.5	8527.7	6338.0	5457.0	4773.8	3492.8	2502.2	1936.9	1434.8
30°	13260.5	12967.8	11588.9	8485.5	6260.2	5378.1	4690.7	3393.8	2424.3	1866.4	1349.5
31°	13161.5	12859.4	11398.2	8294.0	6100.2	5224.4	4560.2	3263.3	2327.5	1791.7	1218.0
32°	12997.3	12596.2	10999.3	7976.1	5881.2	5039.1	4397.0	3121.1	2224.3	1696.9	1032.6
33°	12647.8	12163.6	10388.7	7577.1	5618.1	4826.5	4206.4	2963.2	2126.4	1533.7	767.4
34°	12122.5	11510.9	9640.3	7112.9	5320.2	4561.2	3987.6	2816.9	2024.3	1317.9	525.3
35°	11139.3	10569.8	8813.9	6618.1	4999.1	4304.4	3746.5	2625.4	1885.4	1056.9	324.2
36°	10039.2	9620.3	8012.9	6115.0	4670.7	4038.0	3498.0	2484.3	1680.0	777.8	220.1
37°	8915.0	8543.5	7257.1	5620.2	4341.2	3743.3	3245.4	2324.3	1435.9	518.9	176.9
38°	7844.5	7549.7	6539.2	5133.9	3999.1	3434.9	2980.1	2153.7	1172.7	333.7	145.3
39°	6861.3	6640.2	5836.0	4663.3	3655.9	3132.7	2725.3	1939.0	894.8	238.0	121.0
40°	5937.1	5781.2	5158.1	4199.1	3314.8	2835.9	2494.8	1679.0	621.0	188.4	97.9
42.5°	4038.0	3999.1	3629.6	3022.2	2462.2	2182.2	1972.8	944.2	239.0	113.8	54.8
45°	1999.0	2026.4	1878.9	1728.4	1611.7	1526.4	1243.2	393.7	132.6	62.1	33.7
47.5°	707.4	708.4	609.5	543.2	518.9	516.9	375.8	138.9	70.6	38.0	24.2
50°	200.0	215.8	203.1	207.4	162.2	137.9	112.6	67.4	35.8	24.2	15.8
51°	123.1	132.6	124.2	128.4	111.5	100.0	84.2	50.5	28.5	19.9	14.7
52°	78.9	84.2	80.0	81.0	74.7	65.2	56.8	36.8	23.2	16.8	12.7
53°	53.7	56.8	53.7	53.7	49.5	46.3	40.0	27.4	18.9	13.7	9.5
54°	36.8	38.0	38.0	38.0	34.7	32.6	28.5	21.0	15.8	12.7	8.4
55°	26.3	27.4	26.3	26.3	25.3	23.2	21.0	15.8	12.7	10.6	6.3
57.5°	11.6	11.6	11.6	12.7	11.6	11.6	10.6	9.5	8.4	6.3	4.2
60°	5.2	5.2	5.2	5.2	6.3	6.3	6.3	6.3	5.2	4.2	4.2
61°	4.2	4.2	4.2	4.2	4.2	5.2	5.2	5.2	4.2	4.2	3.1
62°	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	4.2	3.1	3.1
63°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	3.1	3.1	3.1
64°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65°	3.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1
66°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1



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CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1
77.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	3.1
80°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	3.1
82.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	3.1
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	3.1
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	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°	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8
2.5°	195.8	194.8	189.5	184.2	185.3	183.2	181.0	177.9	175.8	170.5	170.5
5°	223.2	217.9	206.3	195.8	194.8	190.5	184.2	177.9	172.6	165.3	163.2
7.5°	254.8	240.0	221.1	204.3	201.1	194.8	183.2	174.8	165.3	155.8	152.7
10°	300.0	265.3	232.6	207.4	201.1	191.6	176.9	165.3	154.7	143.1	138.9
12.5°	461.1	327.4	247.3	207.4	195.8	184.2	166.3	152.7	140.0	127.3	123.1
15°	768.5	523.2	313.7	207.4	186.3	172.6	150.5	136.9	123.1	111.5	107.4
17.5°	1061.1	744.2	436.9	233.7	187.3	159.0	131.6	116.9	105.2	93.7	90.5
20°	1230.5	867.4	517.9	260.0	185.3	143.1	112.6	96.8	85.3	76.9	73.7
22.5°	1252.7	872.7	500.0	232.6	155.8	119.0	93.7	78.9	69.5	62.1	60.0
25°	1193.7	770.6	400.0	165.3	115.8	96.8	73.7	63.1	55.8	49.5	48.4
26°	1148.4	709.5	348.4	136.9	102.1	86.4	66.3	56.8	50.5	45.3	44.2
27°	1084.3	644.3	297.9	113.8	90.5	77.9	59.0	51.6	46.3	41.1	41.1
28°	1011.7	573.7	240.0	95.7	81.0	69.5	53.7	46.3	41.1	38.0	38.0
29°	924.2	471.5	175.8	83.2	71.6	61.1	47.3	41.1	36.8	34.7	34.7
30°	794.8	342.1	121.0	72.6	62.1	53.7	42.1	36.8	33.7	31.6	31.6
31°	621.0	210.6	94.7	63.1	54.8	47.3	38.0	32.6	30.5	28.5	29.5
32°	423.1	131.6	81.0	54.8	48.4	41.1	33.7	29.5	27.4	26.3	26.3
33°	241.1	109.5	70.6	47.3	41.1	35.8	29.5	26.3	25.3	24.2	24.2
34°	160.0	93.7	61.1	40.0	33.7	30.5	25.3	23.2	22.1	22.1	22.1
35°	134.8	81.0	49.5	33.7	29.5	26.3	22.1	21.0	19.9	19.9	21.0
36°	113.8	67.4	40.0	28.5	25.3	23.2	19.9	18.9	17.9	17.9	18.9
37°	95.7	53.7	33.7	24.2	21.0	19.9	17.9	16.8	16.8	16.8	17.9
38°	77.9	43.2	28.5	21.0	18.9	16.8	15.8	14.7	14.7	15.8	16.8
39°	61.1	34.7	23.2	17.9	15.8	14.7	13.7	13.7	13.7	13.7	14.7
40°	48.4	29.5	19.9	15.8	13.7	13.7	12.7	11.6	12.7	12.7	14.7
42.5°	30.5	21.0	14.7	11.6	10.6	10.6	9.5	9.5	9.5	10.6	11.6
45°	22.1	16.8	11.6	9.5	8.4	7.3	7.3	7.3	8.4	9.5	10.6
47.5°	16.8	11.6	8.4	6.3	5.2	5.2	5.2	5.2	6.3	7.3	8.4
50°	11.6	7.3	5.2	4.2	4.2	4.2	4.2	4.2	5.2	6.3	7.3
51°	9.5	6.3	5.2	4.2	4.2	3.1	3.1	4.2	5.2	5.2	6.3
52°	7.3	5.2	4.2	3.1	3.1	3.1	3.1	4.2	4.2	5.2	6.3
53°	6.3	5.2	4.2	3.1	3.1	3.1	3.1	3.1	4.2	5.2	6.3
54°	5.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2	6.3
55°	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	5.2
57.5°	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2
61°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2
62°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2
63°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	5.2
64°	3.1	3.1	3.1	3.1	4.2	4.2	3.1	3.1	4.2	4.2	5.2
65°	3.1	3.1	4.2	4.2	4.2	4.2	3.1	3.1	4.2	4.2	5.2
66°	3.1	4.2	4.2	4.2	4.2	4.2	3.1	3.1	4.2	4.2	5.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	3.1	4.2	4.2	4.2
75°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1	4.2	4.2
80°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1	4.2	4.2
82.5°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1	3.1	4.2
85°	3.1	3.1	4.2	4.2	4.2	4.2	4.2	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	4.2	4.2	4.2	4.2	3.1	3.1	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8
2.5°	168.4	165.3	163.2	162.2	163.2	161.1	157.9	159.0	157.9	156.8	156.8
5°	160.0	154.7	152.7	151.6	151.6	150.5	146.4	147.4	146.4	145.3	145.3
7.5°	148.4	144.3	141.0	140.0	140.0	138.9	134.8	136.9	134.8	133.7	134.8
10°	134.8	130.6	129.5	127.3	127.3	126.3	123.1	124.2	123.1	123.1	123.1
12.5°	120.0	115.8	114.8	113.8	114.8	113.8	110.5	112.6	111.5	111.5	112.6
15°	104.2	101.1	101.1	100.0	101.1	100.0	99.0	100.0	100.0	100.0	102.1
17.5°	88.4	86.4	86.4	85.3	86.4	86.4	85.3	88.4	88.4	90.5	92.6
20°	72.6	70.6	71.6	71.6	73.7	73.7	73.7	76.9	77.9	80.0	83.2
22.5°	60.0	59.0	60.0	60.0	62.1	63.1	63.1	66.3	69.5	71.6	74.7
25°	48.4	48.4	50.5	50.5	51.6	53.7	54.8	59.0	61.1	63.1	66.3
26°	45.3	45.3	46.3	47.3	48.4	50.5	51.6	55.8	57.9	60.0	63.1
27°	41.1	41.1	43.2	44.2	45.3	47.3	49.5	52.6	54.8	57.9	60.0
28°	38.0	38.0	40.0	41.1	42.1	45.3	46.3	49.5	51.6	54.8	57.9
29°	34.7	35.8	38.0	38.0	40.0	42.1	43.2	47.3	49.5	51.6	54.8
30°	32.6	33.7	34.7	35.8	36.8	39.0	41.1	44.2	46.3	48.4	51.6
31°	30.5	31.6	32.6	33.7	34.7	36.8	39.0	42.1	44.2	46.3	49.5
32°	28.5	28.5	30.5	31.6	32.6	34.7	36.8	40.0	42.1	44.2	47.3
33°	26.3	27.4	28.5	29.5	30.5	32.6	34.7	36.8	39.0	42.1	45.3
34°	24.2	25.3	27.4	28.5	29.5	31.6	32.6	34.7	36.8	40.0	42.1
35°	22.1	24.2	25.3	26.3	27.4	29.5	30.5	33.7	34.7	38.0	40.0
36°	21.0	22.1	24.2	25.3	26.3	27.4	28.5	31.6	33.7	35.8	38.0
37°	18.9	21.0	22.1	23.2	24.2	26.3	27.4	29.5	31.6	33.7	35.8
38°	17.9	18.9	21.0	22.1	23.2	24.2	25.3	28.5	29.5	31.6	33.7
39°	16.8	17.9	19.9	21.0	21.0	23.2	24.2	26.3	27.4	29.5	32.6
40°	15.8	16.8	18.9	18.9	19.9	22.1	23.2	25.3	26.3	28.5	30.5
42.5°	13.7	14.7	15.8	16.8	17.9	18.9	19.9	22.1	23.2	24.2	26.3
45°	11.6	12.7	14.7	14.7	15.8	16.8	17.9	18.9	19.9	22.1	23.2
47.5°	9.5	11.6	12.7	13.7	13.7	14.7	15.8	16.8	17.9	18.9	19.9
50°	8.4	9.5	10.6	11.6	11.6	12.7	13.7	14.7	14.7	15.8	17.9
51°	8.4	9.5	10.6	10.6	11.6	12.7	12.7	13.7	14.7	14.7	15.8
52°	7.3	8.4	9.5	10.6	10.6	11.6	12.7	12.7	13.7	14.7	15.8
53°	7.3	8.4	9.5	9.5	10.6	11.6	11.6	12.7	12.7	13.7	14.7
54°	7.3	8.4	9.5	9.5	10.6	10.6	11.6	11.6	12.7	12.7	13.7
55°	6.3	7.3	8.4	9.5	9.5	10.6	10.6	11.6	11.6	12.7	12.7
57.5°	6.3	7.3	8.4	8.4	8.4	9.5	9.5	10.6	10.6	10.6	11.6
60°	6.3	7.3	7.3	8.4	8.4	9.5	9.5	9.5	9.5	10.6	10.6
61°	6.3	6.3	7.3	8.4	8.4	8.4	9.5	9.5	9.5	9.5	10.6
62°	6.3	6.3	7.3	7.3	8.4	8.4	8.4	9.5	9.5	9.5	9.5
63°	5.2	6.3	7.3	7.3	8.4	8.4	8.4	8.4	8.4	9.5	9.5
64°	5.2	6.3	7.3	7.3	7.3	8.4	8.4	8.4	8.4	8.4	8.4
65°	5.2	6.3	7.3	7.3	7.3	8.4	8.4	8.4	8.4	8.4	8.4
66°	5.2	6.3	7.3	7.3	7.3	8.4	8.4	8.4	8.4	8.4	8.4

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212246

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.2	5.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
75°	5.2	5.2	5.2	6.3	6.3	6.3	6.3	6.3	6.3	5.2	5.2
77.5°	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.2
80°	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1	2.1
87.5°	3.1	4.2	4.2	4.2	4.2	4.2	3.1	3.1	3.1	2.1	2.1
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: P1212246

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8
2.5°	157.9	154.7	153.7	153.7	154.7	153.7	154.7	153.7
5°	145.3	142.1	142.1	141.0	142.1	141.0	142.1	141.0
7.5°	134.8	131.6	131.6	131.6	131.6	131.6	132.6	131.6
10°	124.2	121.0	121.0	120.0	121.0	121.0	122.1	121.0
12.5°	113.8	111.5	111.5	110.5	112.6	111.5	113.8	112.6
15°	104.2	102.1	102.1	103.2	104.2	104.2	105.2	105.2
17.5°	94.7	94.7	94.7	95.7	96.8	97.9	99.0	97.9
20°	86.4	86.4	87.4	88.4	89.5	90.5	91.6	91.6
22.5°	77.9	77.9	78.9	81.0	83.2	84.2	85.3	85.3
25°	69.5	70.6	71.6	72.6	75.8	76.9	77.9	77.9
26°	66.3	67.4	69.5	70.6	72.6	73.7	75.8	75.8
27°	64.2	65.2	66.3	67.4	70.6	71.6	73.7	72.6
28°	61.1	62.1	63.1	65.2	67.4	69.5	70.6	70.6
29°	57.9	60.0	61.1	62.1	65.2	66.3	67.4	67.4
30°	55.8	56.8	57.9	60.0	62.1	64.2	65.2	65.2
31°	52.6	54.8	55.8	56.8	60.0	61.1	63.1	63.1
32°	50.5	51.6	52.6	54.8	56.8	59.0	60.0	60.0
33°	47.3	49.5	50.5	51.6	54.8	56.8	57.9	56.8
34°	45.3	47.3	47.3	49.5	51.6	53.7	54.8	54.8
35°	43.2	44.2	45.3	47.3	49.5	51.6	52.6	52.6
36°	41.1	42.1	43.2	45.3	47.3	49.5	50.5	50.5
37°	39.0	40.0	41.1	42.1	45.3	47.3	48.4	48.4
38°	36.8	38.0	39.0	41.1	43.2	44.2	46.3	46.3
39°	34.7	35.8	36.8	39.0	41.1	42.1	44.2	43.2
40°	32.6	34.7	34.7	36.8	39.0	40.0	42.1	41.1
42.5°	28.5	29.5	30.5	31.6	33.7	35.8	36.8	36.8
45°	25.3	26.3	27.4	28.5	29.5	30.5	32.6	31.6
47.5°	21.0	22.1	23.2	24.2	25.3	26.3	27.4	27.4
50°	18.9	18.9	19.9	19.9	22.1	23.2	24.2	24.2
51°	16.8	17.9	18.9	18.9	21.0	21.0	22.1	22.1
52°	16.8	16.8	17.9	17.9	18.9	19.9	21.0	21.0
53°	15.8	15.8	16.8	16.8	17.9	18.9	19.9	19.9
54°	14.7	14.7	15.8	15.8	16.8	17.9	18.9	18.9
55°	13.7	13.7	14.7	14.7	15.8	16.8	17.9	17.9
57.5°	11.6	12.7	12.7	13.7	13.7	14.7	14.7	15.8
60°	10.6	11.6	11.6	11.6	12.7	12.7	12.7	12.7
61°	10.6	10.6	10.6	11.6	11.6	10.6	11.6	10.6
62°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
63°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
64°	9.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4
65°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.3
66°	8.4	8.4	7.3	8.4	7.3	7.3	7.3	7.3

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212246

CATALOG NUMBER: LDSQA4A25930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	5.2	5.2	5.2	5.2	5.2	4.2	4.2	4.2
75°	5.2	5.2	5.2	4.2	4.2	4.2	4.2	3.1
77.5°	4.2	4.2	4.2	4.2	3.1	3.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1
82.5°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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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— 0°-180° - - 45°-225° - - - 90°-270°

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Peachtree City, GA 30269

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67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1

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67.5°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	3.1	4.2	4.2	5.2
70°	3.1	4.2	4.2	4.2	4.2	4.2	4.2	3.1	4.2	4.2	4.2

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67.5°	5.2	6.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
70°	5.2	6.3	6.3	6.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3

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67.5°	7.3	7.3	7.3	7.3	7.3	6.3	6.3	6.3
70°	6.3	6.3	6.3	6.3	6.3	5.2	5.2	5.2

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Peachtree City, GA 30269

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(END OF REPORT)