

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: P1212302

Luminaire Tested: **LDSQA4A30930D010TE 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: P1212302
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: LDSQA4A30930D010TE 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

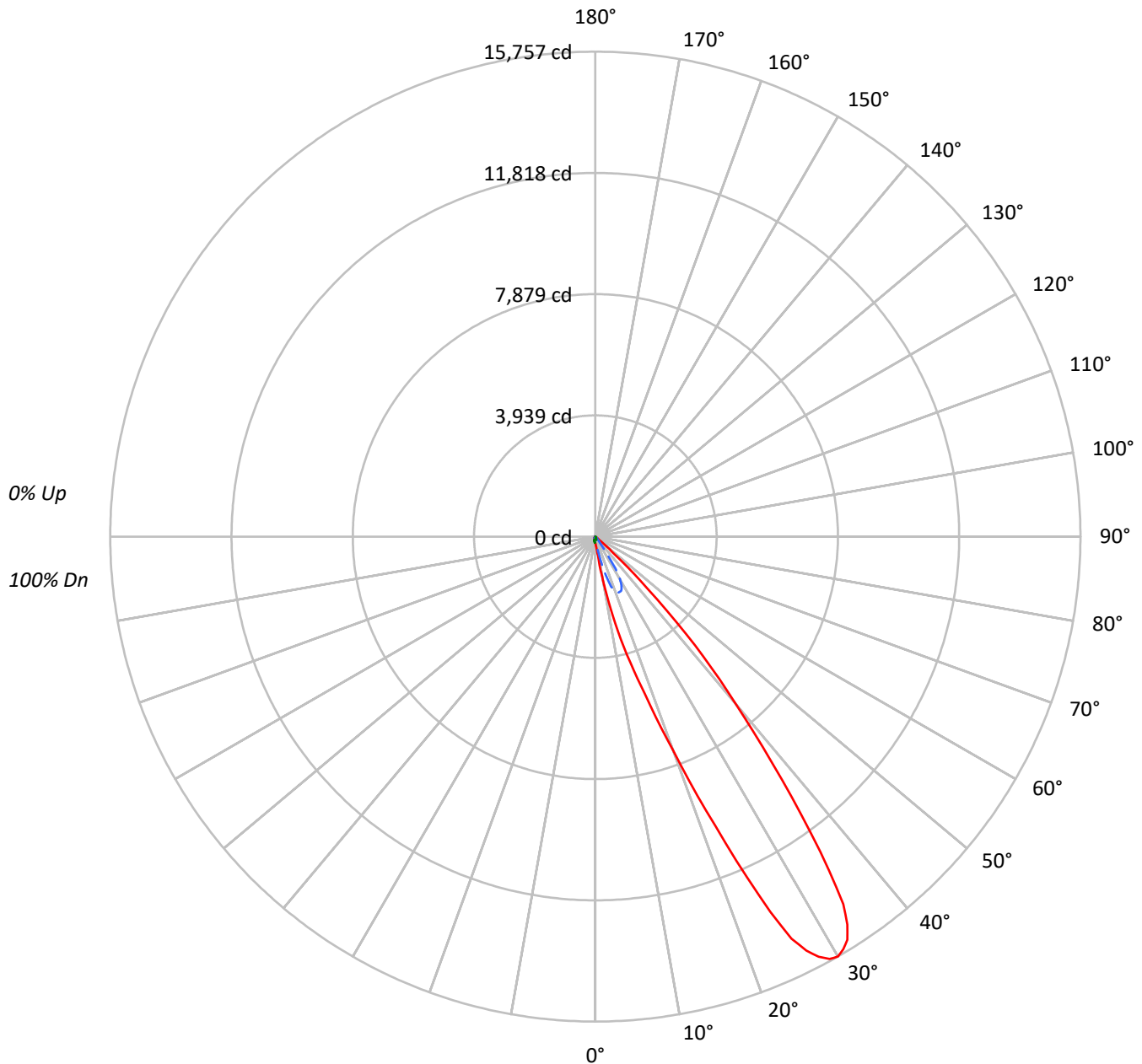
Lumens per Lamp: N/A
Luminaire Lumens: 2423.1 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
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	113	109	107	104	110	107	105	102		103	101	99		99	98	96		96	95	93
2	106	100	95	91	103	98	94	90		95	91	88		92	89	86		89	87	85
3	99	92	86	81	97	90	85	80		87	83	79		85	81	78		83	79	77
4	93	84	77	72	91	83	76	72		80	75	71		78	74	70		76	72	69
5	87	77	70	65	85	76	69	64		74	68	64		72	67	63		70	66	63
6	81	70	63	58	79	69	63	58		68	62	57		66	61	57		65	60	57
7	76	65	57	52	74	64	57	52		62	56	52		61	56	52		60	55	51
8	71	59	52	47	69	59	52	47		57	51	47		56	51	47		55	50	46
9	66	55	48	43	65	54	47	43		53	47	43		52	46	42		51	46	42
10	62	50	43	39	61	50	43	39		49	43	39		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20237	20237	20237
5°	33696	19099	16298
10°	143718	16733	14146
15°	397811	13289	12547
20°	763030	9412	11216
25°	1438667	6285	9887
30°	1762634	4195	8669
35°	1565413	2803	7391
40°	892176	1897	6171
45°	325436	1548	5138
50°	35809	1130	4340
55°	5286	844	3581
60°	1201	969	2906
65°	848	1146	1994
70°	708	1416	1756
75°	936	1871	1385
80°	0	2789	1395
85°	0	4113	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.1
10°-20°	262.6	10.8
20°-30°	862.4	35.6
30°-40°	945.8	39.0
40°-50°	295.4	12.2
50°-60°	16.2	0.7
60°-70°	6.5	0.3
70°-80°	4.9	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°	1151.3	47.5
0°-40°	2097.0	86.5
0°-60°	2408.6	99.4
0°-90°	2423.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2423.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	209	209	209	209	209	
5°	346	278	196	174	168	64
15°	3966	1275	132	119	125	1246
25°	13459	1958	59	72	92	6000
35°	13237	385	24	41	62	7739
45°	2375	40	11	24	38	2181
55°	31	8	5	14	21	49
65°	4	4	5	10	9	3
75°	2	4	5	8	4	2
85°	0	4	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°	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9
2.5°	257.6	260.1	261.5	255.2	256.4	253.9	256.4	251.4	242.7	245.2	237.6
5°	346.5	341.5	340.2	330.2	327.7	322.7	322.7	311.4	295.2	292.7	277.6
7.5°	612.9	586.7	564.1	530.4	497.9	472.8	462.8	422.8	379.0	362.7	327.7
10°	1461.0	1456.0	1399.7	1293.4	1170.8	1082.0	1030.7	875.6	679.2	559.1	434.0
12.5°	2659.3	2634.4	2554.3	2359.1	2147.8	2015.1	1911.3	1598.6	1307.2	1073.3	769.3
15°	3966.5	3865.2	3747.6	3444.9	3148.4	2975.9	2828.2	2453.0	2001.3	1664.9	1274.6
17.5°	5362.5	5407.5	5122.3	4600.7	4074.1	3803.9	3553.7	2977.1	2482.9	2132.8	1693.6
20°	7401.4	7306.4	6804.7	5940.4	5163.5	4712.0	4356.8	3524.9	2779.5	2342.8	1927.6
22.5°	10157.0	9854.4	8876.2	7413.9	6181.8	5555.1	5051.0	3930.3	3028.4	2450.4	1965.1
25°	13459.3	13179.2	11367.9	8831.2	7008.6	6196.8	5511.3	4187.9	3128.4	2467.9	1957.6
26°	14537.6	14121.0	12287.3	9335.3	7262.5	6359.4	5625.1	4238.0	3130.9	2454.2	1925.1
27°	15095.4	14769.0	13047.8	9744.2	7436.4	6462.0	5689.0	4250.5	3105.9	2422.9	1875.0
28°	15463.3	15158.0	13529.4	10011.9	7525.2	6502.0	5707.7	4222.9	3049.6	2367.9	1796.2
29°	15691.0	15369.5	13764.5	10133.3	7531.4	6484.5	5672.7	4150.4	2973.4	2301.6	1704.9
30°	15757.2	15409.5	13770.9	10083.2	7438.9	6390.7	5573.8	4032.9	2880.7	2217.7	1603.6
31°	15639.7	15280.7	13544.4	9855.6	7248.8	6208.1	5418.8	3877.7	2765.7	2129.0	1447.3
32°	15444.5	14967.9	13070.4	9477.9	6988.6	5987.9	5224.9	3708.8	2643.1	2016.4	1227.1
33°	15029.2	14453.8	12344.8	9003.7	6675.9	5735.2	4998.4	3521.2	2526.8	1822.5	911.9
34°	14405.0	13678.2	11455.5	8452.2	6321.9	5420.0	4738.3	3347.3	2405.4	1566.1	624.2
35°	13236.7	12559.9	10473.5	7864.2	5940.4	5114.8	4451.9	3119.7	2240.3	1255.9	385.2
36°	11929.5	11431.6	9521.6	7266.4	5550.1	4798.3	4156.6	2952.0	1996.4	924.3	261.5
37°	10593.6	10152.0	8623.5	6678.4	5158.6	4448.1	3856.5	2761.9	1706.2	616.6	210.2
38°	9321.5	8971.2	7770.4	6100.5	4752.1	4081.6	3541.2	2559.2	1393.5	396.5	172.7
39°	8153.2	7890.5	6934.8	5541.3	4344.3	3722.6	3238.5	2304.1	1063.2	282.7	143.8
40°	7054.9	6869.7	6129.2	4989.7	3939.0	3369.9	2964.6	1995.1	738.0	223.9	116.3
42.5°	4798.3	4752.1	4313.0	3591.3	2925.8	2593.0	2344.2	1122.0	284.0	135.1	65.1
45°	2375.4	2407.9	2232.8	2053.9	1915.1	1813.8	1477.2	467.8	157.6	73.8	40.0
47.5°	840.6	841.8	724.2	645.5	616.6	614.2	446.6	165.1	83.8	45.1	28.8
50°	237.6	256.4	241.4	246.5	192.7	163.8	133.8	80.0	42.5	28.8	18.8
51°	146.3	157.6	147.6	152.5	132.5	118.9	100.1	60.0	33.8	23.7	17.5
52°	93.8	100.1	95.0	96.3	88.8	77.5	67.6	43.7	27.6	20.0	15.0
53°	63.8	67.6	63.8	63.8	58.8	55.0	47.6	32.5	22.5	16.3	11.3
54°	43.7	45.1	45.1	45.1	41.2	38.8	33.8	25.0	18.8	15.0	10.1
55°	31.3	32.5	31.3	31.3	30.1	27.6	25.0	18.8	15.0	12.5	7.5
57.5°	13.8	13.8	13.8	15.0	13.8	13.8	12.5	11.3	10.1	7.5	5.0
60°	6.2	6.2	6.2	6.2	7.5	7.5	7.5	7.5	6.2	5.0	5.0
61°	5.0	5.0	5.0	5.0	5.0	6.2	6.2	6.2	5.0	5.0	3.7
62°	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7
63°	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	3.7	3.7	3.7
64°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	3.7	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7
66°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7



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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	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
77.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	3.7
80°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	3.7
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	3.7
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	3.7
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	3.7
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°	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9
2.5°	232.7	231.4	225.2	218.9	220.1	217.6	215.2	211.4	208.9	202.6	202.6
5°	265.2	258.9	245.2	232.7	231.4	226.5	218.9	211.4	205.1	196.4	193.9
7.5°	302.7	285.2	262.7	242.7	238.9	231.4	217.6	207.7	196.4	185.1	181.4
10°	356.5	315.3	276.4	246.5	238.9	227.7	210.2	196.4	183.9	170.1	165.1
12.5°	547.9	389.1	293.9	246.5	232.7	218.9	197.6	181.4	166.3	151.3	146.3
15°	913.2	621.7	372.8	246.5	221.4	205.1	178.9	162.6	146.3	132.5	127.6
17.5°	1260.9	884.3	519.1	277.6	222.6	188.9	156.4	138.9	125.1	111.3	107.6
20°	1462.2	1030.7	615.4	308.9	220.1	170.1	133.8	115.0	101.4	91.3	87.6
22.5°	1488.5	1037.0	594.2	276.4	185.1	141.4	111.3	93.8	82.6	73.8	71.3
25°	1418.5	915.6	475.3	196.4	137.6	115.0	87.6	75.0	66.3	58.8	57.5
26°	1364.7	843.1	414.0	162.6	121.4	102.6	78.8	67.6	60.0	53.8	52.5
27°	1288.4	765.6	354.0	135.1	107.6	92.5	70.1	61.2	55.0	48.8	48.8
28°	1202.1	681.7	285.2	113.8	96.3	82.6	63.8	55.0	48.8	45.1	45.1
29°	1098.2	560.4	208.9	98.9	85.1	72.5	56.3	48.8	43.7	41.2	41.2
30°	944.5	406.6	143.8	86.3	73.8	63.8	50.1	43.7	40.0	37.5	37.5
31°	738.0	250.2	112.5	75.0	65.1	56.3	45.1	38.8	36.3	33.8	35.0
32°	502.8	156.4	96.3	65.1	57.5	48.8	40.0	35.0	32.5	31.3	31.3
33°	286.5	130.1	83.8	56.3	48.8	42.5	35.0	31.3	30.1	28.8	28.8
34°	190.2	111.3	72.5	47.6	40.0	36.3	30.1	27.6	26.2	26.2	26.2
35°	160.1	96.3	58.8	40.0	35.0	31.3	26.2	25.0	23.7	23.7	25.0
36°	135.1	80.0	47.6	33.8	30.1	27.6	23.7	22.5	21.2	21.2	22.5
37°	113.8	63.8	40.0	28.8	25.0	23.7	21.2	20.0	20.0	20.0	21.2
38°	92.5	51.3	33.8	25.0	22.5	20.0	18.8	17.5	17.5	18.8	20.0
39°	72.5	41.2	27.6	21.2	18.8	17.5	16.3	16.3	16.3	16.3	17.5
40°	57.5	35.0	23.7	18.8	16.3	16.3	15.0	13.8	15.0	15.0	17.5
42.5°	36.3	25.0	17.5	13.8	12.5	12.5	11.3	11.3	11.3	12.5	13.8
45°	26.2	20.0	13.8	11.3	10.1	8.7	8.7	8.7	10.1	11.3	12.5
47.5°	20.0	13.8	10.1	7.5	6.2	6.2	6.2	6.2	7.5	8.7	10.1
50°	13.8	8.7	6.2	5.0	5.0	5.0	5.0	5.0	6.2	7.5	8.7
51°	11.3	7.5	6.2	5.0	5.0	3.7	3.7	5.0	6.2	6.2	7.5
52°	8.7	6.2	5.0	3.7	3.7	3.7	3.7	5.0	5.0	6.2	7.5
53°	7.5	6.2	5.0	3.7	3.7	3.7	3.7	3.7	5.0	6.2	7.5
54°	6.2	5.0	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2	7.5
55°	5.0	5.0	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
57.5°	5.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2
61°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2
62°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2
63°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
64°	3.7	3.7	3.7	3.7	5.0	5.0	3.7	3.7	5.0	5.0	6.2
65°	3.7	3.7	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0	6.2
66°	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0	6.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	5.0	5.0	5.0
75°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0
80°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0
82.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0
85°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7	3.7
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°	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9
2.5°	200.1	196.4	193.9	192.7	193.9	191.4	187.6	188.9	187.6	186.3	186.3
5°	190.2	183.9	181.4	180.1	180.1	178.9	173.9	175.1	173.9	172.7	172.7
7.5°	176.4	171.4	167.6	166.3	166.3	165.1	160.1	162.6	160.1	158.9	160.1
10°	160.1	155.1	153.9	151.3	151.3	150.1	146.3	147.6	146.3	146.3	146.3
12.5°	142.6	137.6	136.4	135.1	136.4	135.1	131.3	133.8	132.5	132.5	133.8
15°	123.8	120.1	120.1	118.9	120.1	118.9	117.6	118.9	118.9	118.9	121.4
17.5°	105.1	102.6	102.6	101.4	102.6	102.6	101.4	105.1	105.1	107.6	110.1
20°	86.3	83.8	85.1	85.1	87.6	87.6	87.6	91.3	92.5	95.0	98.9
22.5°	71.3	70.1	71.3	71.3	73.8	75.0	75.0	78.8	82.6	85.1	88.8
25°	57.5	57.5	60.0	60.0	61.2	63.8	65.1	70.1	72.5	75.0	78.8
26°	53.8	53.8	55.0	56.3	57.5	60.0	61.2	66.3	68.8	71.3	75.0
27°	48.8	48.8	51.3	52.5	53.8	56.3	58.8	62.5	65.1	68.8	71.3
28°	45.1	45.1	47.6	48.8	50.1	53.8	55.0	58.8	61.2	65.1	68.8
29°	41.2	42.5	45.1	45.1	47.6	50.1	51.3	56.3	58.8	61.2	65.1
30°	38.8	40.0	41.2	42.5	43.7	46.3	48.8	52.5	55.0	57.5	61.2
31°	36.3	37.5	38.8	40.0	41.2	43.7	46.3	50.1	52.5	55.0	58.8
32°	33.8	33.8	36.3	37.5	38.8	41.2	43.7	47.6	50.1	52.5	56.3
33°	31.3	32.5	33.8	35.0	36.3	38.8	41.2	43.7	46.3	50.1	53.8
34°	28.8	30.1	32.5	33.8	35.0	37.5	38.8	41.2	43.7	47.6	50.1
35°	26.2	28.8	30.1	31.3	32.5	35.0	36.3	40.0	41.2	45.1	47.6
36°	25.0	26.2	28.8	30.1	31.3	32.5	33.8	37.5	40.0	42.5	45.1
37°	22.5	25.0	26.2	27.6	28.8	31.3	32.5	35.0	37.5	40.0	42.5
38°	21.2	22.5	25.0	26.2	27.6	28.8	30.1	33.8	35.0	37.5	40.0
39°	20.0	21.2	23.7	25.0	25.0	27.6	28.8	31.3	32.5	35.0	38.8
40°	18.8	20.0	22.5	22.5	23.7	26.2	27.6	30.1	31.3	33.8	36.3
42.5°	16.3	17.5	18.8	20.0	21.2	22.5	23.7	26.2	27.6	28.8	31.3
45°	13.8	15.0	17.5	17.5	18.8	20.0	21.2	22.5	23.7	26.2	27.6
47.5°	11.3	13.8	15.0	16.3	16.3	17.5	18.8	20.0	21.2	22.5	23.7
50°	10.1	11.3	12.5	13.8	13.8	15.0	16.3	17.5	17.5	18.8	21.2
51°	10.1	11.3	12.5	12.5	13.8	15.0	15.0	16.3	17.5	17.5	18.8
52°	8.7	10.1	11.3	12.5	12.5	13.8	15.0	15.0	16.3	17.5	18.8
53°	8.7	10.1	11.3	11.3	12.5	13.8	13.8	15.0	15.0	16.3	17.5
54°	8.7	10.1	11.3	11.3	12.5	12.5	13.8	13.8	15.0	15.0	16.3
55°	7.5	8.7	10.1	11.3	11.3	12.5	12.5	13.8	13.8	15.0	15.0
57.5°	7.5	8.7	10.1	10.1	10.1	11.3	11.3	12.5	12.5	12.5	13.8
60°	7.5	8.7	8.7	10.1	10.1	11.3	11.3	11.3	11.3	12.5	12.5
61°	7.5	7.5	8.7	10.1	10.1	10.1	11.3	11.3	11.3	11.3	12.5
62°	7.5	7.5	8.7	8.7	10.1	10.1	10.1	11.3	11.3	11.3	11.3
63°	6.2	7.5	8.7	8.7	10.1	10.1	10.1	10.1	10.1	11.3	11.3
64°	6.2	7.5	8.7	8.7	8.7	10.1	10.1	10.1	10.1	10.1	10.1
65°	6.2	7.5	8.7	8.7	8.7	10.1	10.1	10.1	10.1	10.1	10.1
66°	6.2	7.5	8.7	8.7	8.7	10.1	10.1	10.1	10.1	10.1	10.1

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212302

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
75°	6.2	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	6.2	6.2
77.5°	5.0	5.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.0
80°	5.0	5.0	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	2.5
87.5°	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	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: P1212302

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	208.9	208.9	208.9	208.9	208.9	208.9	208.9	208.9
2.5°	187.6	183.9	182.6	182.6	183.9	182.6	183.9	182.6
5°	172.7	168.8	168.8	167.6	168.8	167.6	168.8	167.6
7.5°	160.1	156.4	156.4	156.4	156.4	156.4	157.6	156.4
10°	147.6	143.8	143.8	142.6	143.8	143.8	145.1	143.8
12.5°	135.1	132.5	132.5	131.3	133.8	132.5	135.1	133.8
15°	123.8	121.4	121.4	122.6	123.8	123.8	125.1	125.1
17.5°	112.5	112.5	112.5	113.8	115.0	116.3	117.6	116.3
20°	102.6	102.6	103.8	105.1	106.3	107.6	108.8	108.8
22.5°	92.5	92.5	93.8	96.3	98.9	100.1	101.4	101.4
25°	82.6	83.8	85.1	86.3	90.1	91.3	92.5	92.5
26°	78.8	80.0	82.6	83.8	86.3	87.6	90.1	90.1
27°	76.3	77.5	78.8	80.0	83.8	85.1	87.6	86.3
28°	72.5	73.8	75.0	77.5	80.0	82.6	83.8	83.8
29°	68.8	71.3	72.5	73.8	77.5	78.8	80.0	80.0
30°	66.3	67.6	68.8	71.3	73.8	76.3	77.5	77.5
31°	62.5	65.1	66.3	67.6	71.3	72.5	75.0	75.0
32°	60.0	61.2	62.5	65.1	67.6	70.1	71.3	71.3
33°	56.3	58.8	60.0	61.2	65.1	67.6	68.8	67.6
34°	53.8	56.3	56.3	58.8	61.2	63.8	65.1	65.1
35°	51.3	52.5	53.8	56.3	58.8	61.2	62.5	62.5
36°	48.8	50.1	51.3	53.8	56.3	58.8	60.0	60.0
37°	46.3	47.6	48.8	50.1	53.8	56.3	57.5	57.5
38°	43.7	45.1	46.3	48.8	51.3	52.5	55.0	55.0
39°	41.2	42.5	43.7	46.3	48.8	50.1	52.5	51.3
40°	38.8	41.2	41.2	43.7	46.3	47.6	50.1	48.8
42.5°	33.8	35.0	36.3	37.5	40.0	42.5	43.7	43.7
45°	30.1	31.3	32.5	33.8	35.0	36.3	38.8	37.5
47.5°	25.0	26.2	27.6	28.8	30.1	31.3	32.5	32.5
50°	22.5	22.5	23.7	23.7	26.2	27.6	28.8	28.8
51°	20.0	21.2	22.5	22.5	25.0	25.0	26.2	26.2
52°	20.0	20.0	21.2	21.2	22.5	23.7	25.0	25.0
53°	18.8	18.8	20.0	20.0	21.2	22.5	23.7	23.7
54°	17.5	17.5	18.8	18.8	20.0	21.2	22.5	22.5
55°	16.3	16.3	17.5	17.5	18.8	20.0	21.2	21.2
57.5°	13.8	15.0	15.0	16.3	16.3	17.5	17.5	18.8
60°	12.5	13.8	13.8	13.8	15.0	15.0	15.0	15.0
61°	12.5	12.5	12.5	13.8	13.8	12.5	13.8	12.5
62°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
63°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
64°	11.3	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	10.1	8.7
66°	10.1	10.1	8.7	10.1	8.7	8.7	8.7	8.7



TEST NUMBER: P1212302

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0
75°	6.2	6.2	6.2	5.0	5.0	5.0	5.0	3.7
77.5°	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5
82.5°	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	2.5	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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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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Scaled Data Report





67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7

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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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Peachtree City, GA 30269

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67.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	5.0	5.0	6.2
70°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	5.0	5.0	5.0

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1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269

Scaled Data Report



67.5°	6.2	7.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
70°	6.2	7.5	7.5	7.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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67.5°	8.7	8.7	8.7	8.7	8.7	7.5	7.5	7.5
70°	7.5	7.5	7.5	7.5	7.5	6.2	6.2	6.2

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)