

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: P1212304

Luminaire Tested: **LDSQA4A30930D010TE 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: P1212304
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: LDSQA4A30930D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

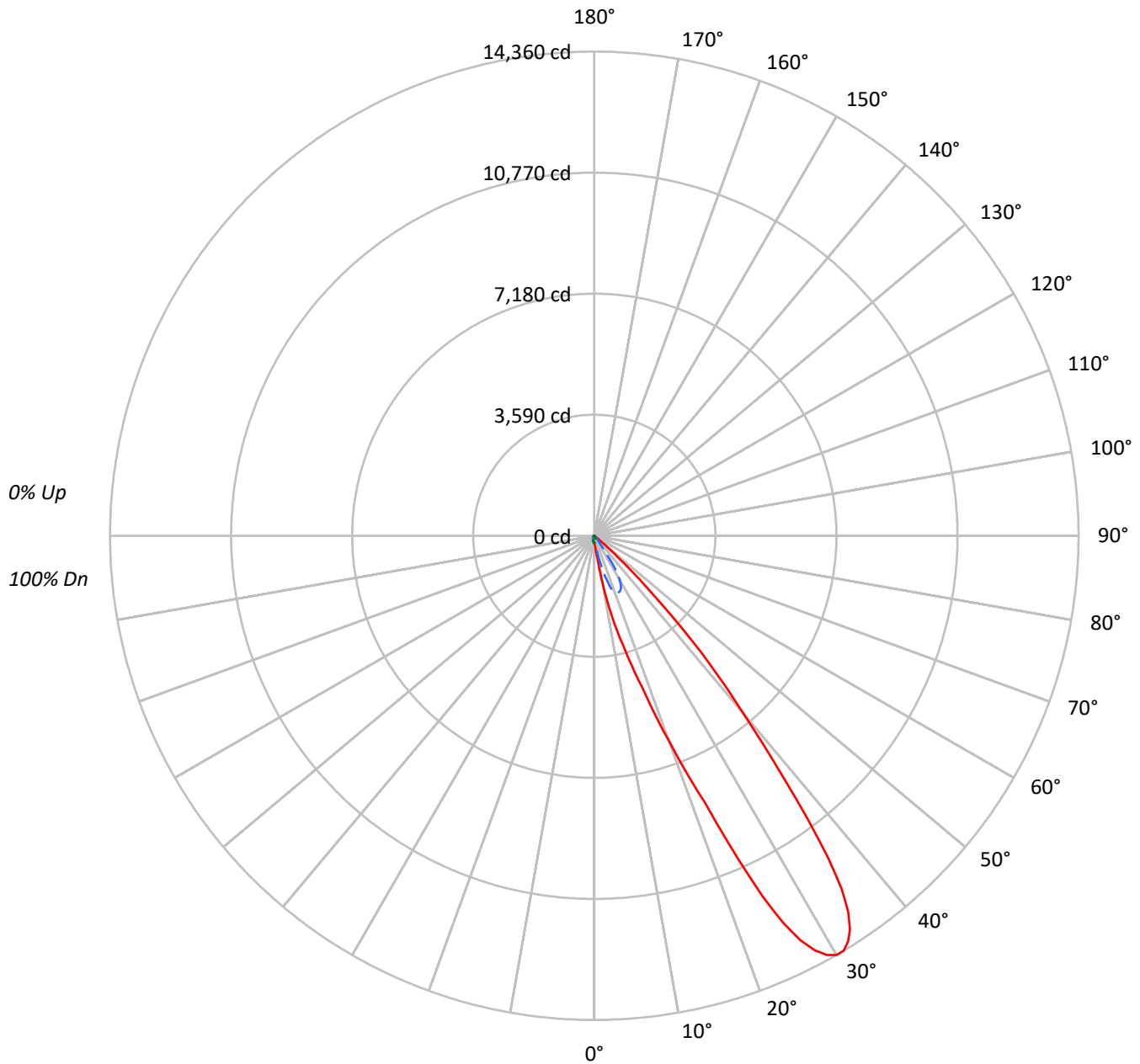
Lumens per Lamp: N/A
Luminaire Lumens: 2254.2 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H 30°

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
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	86	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°	20605	20605	20605
5°	32733	19595	16911
10°	143394	17352	14401
15°	350363	14051	12547
20°	668443	10454	11474
25°	1259733	7493	10026
30°	1606239	5325	8826
35°	1510964	3264	7545
40°	866795	2213	6487
45°	334615	1548	5480
50°	44505	1130	4536
55°	6756	1047	3800
60°	1957	969	3158
65°	1146	1146	2315
70°	708	1416	1756
75°	936	1385	1385
80°	0	2064	1395
85°	0	4113	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	1.2
10°-20°	241.6	10.7
20°-30°	770.4	34.2
30°-40°	892.8	39.6
40°-50°	290.3	12.9
50°-60°	18.4	0.8
60°-70°	6.7	0.3
70°-80°	4.7	0.2
80°-90°	2.8	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°	1038.6	46.1
0°-40°	1931.3	85.7
0°-60°	2240.0	99.4
0°-90°	2254.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	213	213	213	213	213	
5°	337	282	202	176	174	65
15°	3493	1259	140	120	125	1108
25°	11785	1810	70	74	94	5296
35°	12776	432	28	42	64	7351
45°	2442	52	11	25	40	2181
55°	40	10	6	14	22	62
65°	5	4	5	10	10	5
75°	2	4	4	6	4	2
85°	0	2	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°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	259.0	261.5	261.5	257.8	257.8	254.0	251.5	250.3	249.1	245.2	244.0
5°	336.6	339.1	340.4	330.3	326.6	319.1	312.8	306.6	299.0	290.3	281.5
7.5°	649.4	596.9	605.6	530.5	516.7	484.2	458.0	416.6	386.7	356.6	332.8
10°	1457.7	1407.6	1398.8	1288.8	1179.9	1098.6	1011.0	859.6	722.0	575.6	456.7
12.5°	2497.4	2423.6	2382.4	2165.9	2038.3	1918.2	1784.3	1547.8	1283.8	1058.6	823.3
15°	3493.4	3487.2	3339.5	3098.0	2855.3	2707.7	2535.0	2242.3	1929.4	1586.5	1258.7
17.5°	4695.8	4744.6	4492.0	4020.2	3636.1	3395.9	3158.1	2700.1	2309.8	1976.9	1617.8
20°	6483.9	6353.8	5912.0	5173.8	4524.4	4162.8	3793.7	3119.4	2560.0	2157.2	1793.0
22.5°	8584.7	8484.6	7658.8	6427.6	5397.8	4889.8	4381.8	3504.7	2776.5	2254.7	1826.8
25°	11785.3	11373.7	9770.9	7772.7	6198.6	5479.1	4827.2	3755.0	2874.0	2267.2	1810.5
26°	12767.6	12478.6	10629.2	8307.0	6445.1	5641.9	4938.7	3806.3	2881.6	2255.9	1779.3
27°	13464.5	13244.3	11343.7	8699.9	6624.1	5754.4	5011.2	3827.5	2864.1	2232.2	1736.7
28°	13923.7	13747.4	11883.0	8983.8	6732.9	5814.5	5046.2	3822.6	2829.1	2191.0	1676.7
29°	14215.3	14045.1	12198.2	9145.3	6771.6	5824.5	5037.4	3784.9	2772.7	2129.6	1590.4
30°	14359.1	14173.9	12304.7	9162.8	6729.2	5767.0	4971.2	3702.4	2695.2	2055.8	1495.2
31°	14360.4	14155.2	12215.8	9027.7	6602.8	5644.3	4853.6	3564.8	2593.8	1968.2	1367.6
32°	14194.0	13982.5	11919.2	8753.7	6405.1	5490.4	4695.8	3424.6	2487.5	1870.6	1183.7
33°	13914.9	13664.8	11405.0	8373.3	6152.3	5280.3	4506.9	3268.2	2381.1	1714.2	942.2
34°	13464.5	13122.9	10686.7	7911.6	5847.1	5034.9	4290.5	3099.3	2273.4	1496.5	673.1
35°	12776.3	12294.6	9856.0	7401.0	5520.4	4769.7	4046.5	2922.9	2142.1	1227.4	431.7
36°	11780.4	11158.5	8991.4	6873.0	5183.9	4490.7	3798.7	2752.7	1934.4	930.9	282.7
37°	10480.3	9932.2	8164.2	6341.2	4834.8	4192.9	3572.3	2581.3	1679.2	650.7	230.2
38°	9145.3	8741.1	7356.0	5813.3	4473.2	3871.3	3297.0	2402.4	1400.2	427.9	192.7
39°	7941.5	7671.3	6565.2	5290.2	4100.3	3589.8	3021.7	2174.7	1102.3	304.1	162.6
40°	6854.2	6667.8	5800.7	4757.2	3727.4	3249.4	2762.7	1895.6	794.5	242.7	136.4
42.5°	4674.6	4582.0	4057.7	3423.3	2757.8	2483.7	2175.9	1139.8	315.3	153.9	82.6
45°	2442.4	2402.4	2212.2	2004.5	1798.1	1726.8	1398.8	511.8	177.6	90.1	52.5
47.5°	950.9	953.5	788.3	673.1	639.4	594.4	450.4	184.0	100.1	55.0	35.0
50°	295.3	317.9	292.8	276.5	211.4	176.4	146.4	91.3	53.8	33.8	22.5
51°	181.5	192.7	181.5	181.5	148.9	130.2	111.3	70.1	42.5	27.6	20.0
52°	117.6	123.8	117.6	110.1	102.6	92.5	80.1	52.5	33.8	22.5	16.3
53°	80.1	83.8	80.1	75.0	68.8	63.8	56.3	38.8	27.6	18.8	13.8
54°	56.3	58.8	56.3	52.5	48.8	45.1	41.2	30.1	22.5	16.3	12.5
55°	40.0	42.5	41.2	38.8	35.0	33.8	31.3	23.7	18.8	13.8	10.1
57.5°	18.8	20.0	20.0	18.8	18.8	17.5	16.3	15.0	11.3	8.8	7.5
60°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	7.5	6.2	6.2
61°	7.5	7.5	7.5	7.5	7.5	7.5	8.8	7.5	6.2	6.2	5.0
62°	6.2	6.2	6.2	6.2	6.2	7.5	7.5	6.2	6.2	5.0	5.0
63°	5.0	5.0	5.0	5.0	6.2	6.2	6.2	6.2	5.0	5.0	5.0
64°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7
65°	5.0	5.0	3.7	3.7	3.7	5.0	3.7	5.0	3.7	3.7	3.7
66°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	1.2	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	2.5
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	236.5	230.2	227.7	225.2	224.0	221.5	217.8	213.9	212.7	207.7	202.7
5°	266.6	255.3	246.5	237.8	235.3	228.9	221.5	212.7	208.9	201.5	195.2
7.5°	301.6	279.0	262.7	247.7	241.5	234.0	220.2	208.9	201.5	190.2	182.7
10°	360.4	307.8	276.5	250.3	240.2	230.2	212.7	197.7	187.7	176.4	167.7
12.5°	570.5	399.1	300.2	251.5	237.8	222.7	201.5	184.0	171.4	158.9	151.4
15°	899.6	608.1	389.2	264.0	232.8	210.2	185.2	165.2	152.7	140.1	132.7
17.5°	1201.2	818.3	508.0	294.0	235.3	199.0	165.2	145.1	131.4	120.1	115.1
20°	1346.3	917.1	565.6	300.2	220.2	177.6	142.6	123.8	111.3	101.4	96.4
22.5°	1360.1	910.9	530.5	256.5	182.7	150.2	120.1	102.6	92.5	85.1	80.1
25°	1295.0	808.3	425.4	188.9	142.6	125.1	98.9	83.8	76.3	70.1	66.3
26°	1245.0	749.5	374.1	164.0	130.2	113.9	90.1	77.6	70.1	65.1	61.4
27°	1176.1	680.7	314.0	141.4	120.1	102.6	82.6	71.3	65.1	61.4	57.5
28°	1093.6	613.1	260.2	125.1	108.8	92.5	76.3	65.1	60.0	56.3	52.5
29°	1004.8	524.3	204.0	112.7	97.6	83.8	68.8	58.8	53.8	51.3	48.8
30°	879.6	407.9	156.4	101.4	87.6	75.0	62.6	53.8	50.1	47.6	45.1
31°	703.2	280.2	126.3	90.1	78.9	67.6	56.3	48.8	45.1	42.5	41.2
32°	504.2	172.7	110.1	80.1	70.1	61.4	48.8	43.8	40.0	38.8	37.5
33°	310.3	141.4	97.6	71.3	61.4	53.8	43.8	38.8	36.3	35.0	33.8
34°	204.0	122.6	86.3	61.4	53.8	46.3	37.5	33.8	32.5	31.3	31.3
35°	172.7	108.8	75.0	52.5	45.1	40.0	32.5	30.1	28.8	27.6	28.8
36°	148.9	95.1	62.6	45.1	38.8	33.8	28.8	26.3	25.0	25.0	26.3
37°	131.4	80.1	52.5	37.5	33.8	30.1	25.0	23.7	22.5	22.5	23.7
38°	111.3	65.1	43.8	32.5	28.8	25.0	22.5	21.2	21.2	21.2	22.5
39°	91.3	55.0	37.5	27.6	25.0	22.5	20.0	18.8	18.8	20.0	20.0
40°	75.0	46.3	31.3	23.7	21.2	20.0	17.5	17.5	17.5	17.5	18.8
42.5°	48.8	31.3	22.5	17.5	16.3	15.0	13.8	13.8	13.8	13.8	15.0
45°	32.5	22.5	17.5	13.8	12.5	11.3	11.3	10.1	11.3	11.3	12.5
47.5°	22.5	16.3	12.5	10.1	8.8	7.5	7.5	7.5	8.8	10.1	10.1
50°	16.3	11.3	8.8	6.2	6.2	6.2	6.2	6.2	7.5	7.5	8.8
51°	13.8	10.1	7.5	6.2	6.2	5.0	5.0	5.0	6.2	7.5	8.8
52°	11.3	8.8	6.2	5.0	5.0	5.0	5.0	5.0	6.2	6.2	7.5
53°	10.1	7.5	6.2	5.0	5.0	5.0	5.0	5.0	6.2	6.2	7.5
54°	8.8	6.2	5.0	5.0	5.0	3.7	3.7	5.0	5.0	6.2	7.5
55°	7.5	6.2	5.0	5.0	3.7	3.7	3.7	3.7	5.0	6.2	6.2
57.5°	6.2	5.0	5.0	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
60°	5.0	5.0	5.0	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
61°	5.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
62°	5.0	3.7	5.0	5.0	5.0	3.7	3.7	3.7	5.0	5.0	6.2
63°	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0	5.0	5.0
64°	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0	6.2
65°	3.7	5.0	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	5.0	3.7	5.0	5.0	5.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0
75°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0
77.5°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0
80°	3.7	3.7	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	5.0	5.0	3.7	3.7	3.7	3.7	3.7	3.7
85°	3.7	3.7	3.7	5.0	5.0	3.7	3.7	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	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°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	200.2	200.2	199.0	196.4	199.0	196.4	193.9	192.7	191.4	190.2	187.7
5°	190.2	188.9	186.4	185.2	185.2	182.7	180.1	177.6	176.4	175.1	172.7
7.5°	177.6	176.4	172.7	171.4	171.4	168.9	165.2	164.0	162.6	161.4	158.9
10°	162.6	161.4	157.6	156.4	156.4	153.9	151.4	148.9	147.7	146.4	143.8
12.5°	145.1	143.8	141.4	140.1	140.1	137.6	135.1	133.9	133.9	132.7	131.4
15°	127.6	126.3	123.8	123.8	123.8	121.4	120.1	118.9	120.1	120.1	118.9
17.5°	110.1	108.8	106.3	106.3	106.3	106.3	105.1	105.1	106.3	107.6	107.6
20°	92.5	91.3	91.3	90.1	91.3	92.5	91.3	92.5	95.1	96.4	97.6
22.5°	76.3	76.3	76.3	76.3	77.6	78.9	78.9	81.4	83.8	85.1	87.6
25°	63.8	63.8	65.1	65.1	66.3	67.6	68.8	70.1	73.8	76.3	77.6
26°	58.8	60.0	60.0	61.4	62.6	63.8	65.1	66.3	70.1	72.5	73.8
27°	55.0	55.0	56.3	57.5	58.8	60.0	61.4	63.8	66.3	68.8	71.3
28°	51.3	51.3	52.5	53.8	55.0	56.3	57.5	60.0	62.6	66.3	67.6
29°	47.6	48.8	48.8	50.1	51.3	52.5	55.0	56.3	60.0	62.6	65.1
30°	43.8	45.1	46.3	46.3	47.6	48.8	51.3	53.8	56.3	60.0	61.4
31°	41.2	42.5	42.5	43.8	45.1	46.3	48.8	51.3	53.8	56.3	58.8
32°	37.5	40.0	40.0	40.0	41.2	43.8	46.3	47.6	51.3	53.8	55.0
33°	35.0	36.3	37.5	37.5	38.8	41.2	43.8	45.1	48.8	51.3	52.5
34°	32.5	33.8	35.0	35.0	36.3	38.8	41.2	42.5	46.3	47.6	50.1
35°	30.1	31.3	32.5	32.5	33.8	36.3	38.8	40.0	42.5	45.1	47.6
36°	27.6	28.8	30.1	31.3	32.5	35.0	36.3	38.8	40.0	42.5	45.1
37°	25.0	26.3	28.8	28.8	31.3	32.5	35.0	36.3	38.8	40.0	42.5
38°	22.5	25.0	26.3	27.6	28.8	31.3	32.5	33.8	36.3	38.8	40.0
39°	21.2	23.7	25.0	26.3	27.6	28.8	30.1	32.5	33.8	36.3	37.5
40°	20.0	21.2	23.7	23.7	26.3	27.6	28.8	30.1	32.5	33.8	36.3
42.5°	16.3	18.8	20.0	21.2	22.5	23.7	25.0	26.3	27.6	30.1	31.3
45°	13.8	16.3	17.5	17.5	18.8	20.0	21.2	22.5	25.0	26.3	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	15.0	15.0	16.3	17.5	18.8	20.0	20.0
51°	10.1	11.3	12.5	12.5	13.8	15.0	16.3	16.3	17.5	18.8	18.8
52°	8.8	10.1	11.3	12.5	13.8	13.8	15.0	16.3	16.3	17.5	18.8
53°	8.8	10.1	11.3	11.3	12.5	13.8	13.8	15.0	16.3	16.3	17.5
54°	7.5	10.1	11.3	11.3	12.5	12.5	13.8	15.0	15.0	15.0	16.3
55°	7.5	8.8	10.1	11.3	11.3	12.5	12.5	13.8	13.8	15.0	15.0
57.5°	7.5	8.8	10.1	10.1	11.3	11.3	12.5	12.5	12.5	12.5	13.8
60°	6.2	7.5	8.8	10.1	10.1	11.3	11.3	11.3	11.3	11.3	12.5
61°	6.2	7.5	8.8	8.8	10.1	10.1	11.3	11.3	11.3	11.3	11.3
62°	6.2	7.5	8.8	8.8	10.1	10.1	10.1	11.3	11.3	11.3	11.3
63°	6.2	7.5	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1	11.3
64°	6.2	7.5	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1	10.1
65°	6.2	7.5	8.8	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1
66°	6.2	7.5	8.8	8.8	8.8	8.8	10.1	10.1	10.1	10.1	8.8

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212304

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.0	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.2
75°	5.0	6.2	6.2	6.2	7.5	7.5	7.5	6.2	6.2	6.2	6.2
77.5°	5.0	5.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0
80°	5.0	5.0	5.0	6.2	6.2	6.2	6.2	5.0	5.0	5.0	3.7
82.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7
85°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	2.5
87.5°	3.7	3.7	3.7	5.0	5.0	5.0	3.7	3.7	2.5	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: P1212304

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	190.2	191.4	190.2	190.2	187.7	188.9	186.4	190.2
5°	173.9	175.1	173.9	173.9	171.4	171.4	170.2	173.9
7.5°	160.1	161.4	158.9	158.9	156.4	157.6	156.4	158.9
10°	146.4	146.4	146.4	145.1	143.8	145.1	143.8	146.4
12.5°	132.7	133.9	133.9	133.9	132.7	132.7	131.4	135.1
15°	121.4	122.6	123.8	123.8	122.6	123.8	122.6	125.1
17.5°	111.3	113.9	113.9	115.1	115.1	116.4	116.4	118.9
20°	101.4	105.1	105.1	106.3	106.3	108.8	108.8	111.3
22.5°	91.3	95.1	96.4	96.4	97.6	100.1	100.1	102.6
25°	82.6	86.3	87.6	87.6	88.8	91.3	91.3	93.8
26°	78.9	82.6	83.8	85.1	86.3	88.8	88.8	91.3
27°	75.0	78.9	80.1	81.4	82.6	85.1	85.1	87.6
28°	72.5	76.3	77.6	78.9	80.1	82.6	82.6	83.8
29°	68.8	72.5	73.8	75.0	76.3	78.9	78.9	81.4
30°	66.3	68.8	70.1	71.3	72.5	76.3	76.3	78.9
31°	62.6	66.3	67.6	68.8	70.1	72.5	72.5	76.3
32°	60.0	62.6	63.8	65.1	67.6	68.8	70.1	72.5
33°	56.3	60.0	61.4	62.6	63.8	66.3	67.6	70.1
34°	53.8	56.3	58.8	60.0	61.4	63.8	65.1	67.6
35°	51.3	53.8	55.0	56.3	58.8	61.4	61.4	63.8
36°	48.8	51.3	52.5	53.8	56.3	58.8	58.8	61.4
37°	46.3	48.8	50.1	51.3	53.8	56.3	56.3	58.8
38°	43.8	46.3	47.6	48.8	51.3	53.8	55.0	57.5
39°	41.2	45.1	46.3	47.6	48.8	51.3	52.5	53.8
40°	40.0	42.5	43.8	45.1	46.3	48.8	50.1	51.3
42.5°	33.8	37.5	38.8	40.0	41.2	42.5	43.8	45.1
45°	30.1	32.5	32.5	33.8	35.0	37.5	37.5	40.0
47.5°	26.3	27.6	28.8	28.8	30.1	32.5	32.5	33.8
50°	22.5	23.7	25.0	25.0	26.3	27.6	28.8	30.1
51°	21.2	22.5	22.5	23.7	25.0	26.3	27.6	28.8
52°	20.0	21.2	21.2	22.5	23.7	25.0	25.0	26.3
53°	18.8	20.0	20.0	21.2	21.2	23.7	23.7	25.0
54°	17.5	18.8	18.8	20.0	20.0	22.5	22.5	23.7
55°	16.3	17.5	18.8	18.8	18.8	20.0	21.2	22.5
57.5°	15.0	16.3	16.3	16.3	17.5	17.5	18.8	18.8
60°	12.5	13.8	13.8	13.8	15.0	15.0	15.0	16.3
61°	12.5	12.5	13.8	13.8	12.5	12.5	12.5	13.8
62°	11.3	12.5	12.5	11.3	11.3	11.3	11.3	12.5
63°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
64°	10.1	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	8.8	10.1
66°	8.8	10.1	10.1	8.8	8.8	8.8	8.8	8.8

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212304

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H 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	5.0	5.0	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	1.2	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

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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

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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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



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

Scaled Data Report



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

Scaled Data Report



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

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	6.2	7.5	7.5	7.5	8.8	8.8	8.8	8.8	8.8	8.8	8.8
70°	6.2	6.2	7.5	7.5	7.5	8.8	8.8	7.5	7.5	7.5	7.5

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	8.8	8.8	8.8	8.8	7.5	7.5	7.5	7.5
70°	7.5	7.5	7.5	7.5	6.2	6.2	6.2	6.2

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1121 Highway 74 South

Peachtree City, GA 30269

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(END OF REPORT)