

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: P1219515

Luminaire Tested: **LDSQA4A15950D010TE 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: P1219515
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: LDSQA4A15950D010TE 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 / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

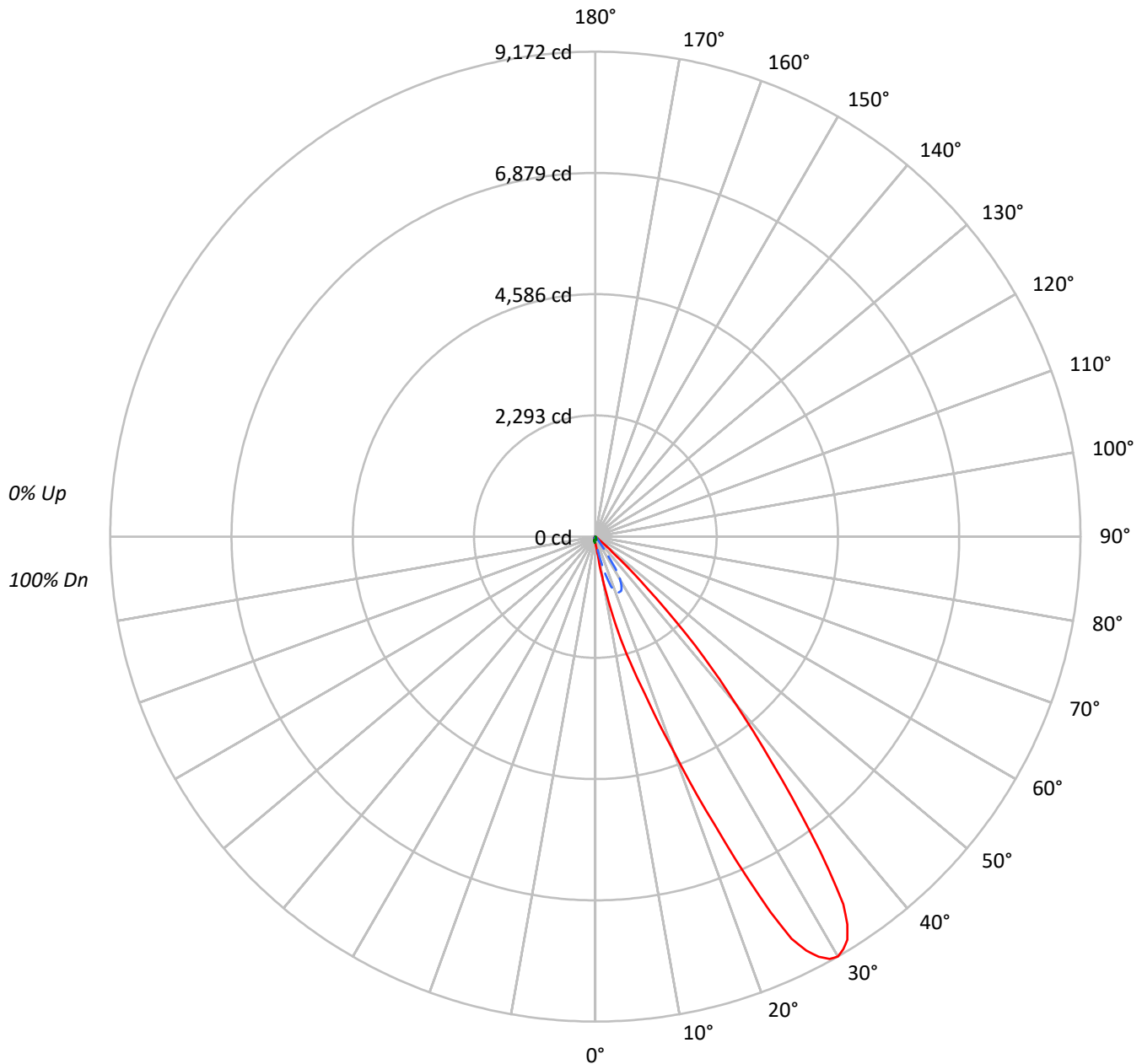
Lumens per Lamp: N/A
Luminaire Lumens: 1410.5 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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°	11780	11780	11780
5°	19614	11115	9501
10°	83654	9739	8234
15°	231556	7743	7301
20°	444144	5474	6526
25°	837399	3656	5761
30°	1025977	2439	5045
35°	911170	1632	4305
40°	519303	1100	3592
45°	189433	904	2987
50°	20858	663	2517
55°	3074	490	2094
60°	698	562	1686
65°	504	665	1192
70°	425	821	1020
75°	561	1085	823
80°	0	1618	837
85°	0	2445	778

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	1.1
10°-20°	152.8	10.8
20°-30°	502.0	35.6
30°-40°	550.5	39.0
40°-50°	172.0	12.2
50°-60°	9.4	0.7
60°-70°	3.8	0.3
70°-80°	2.9	0.2
80°-90°	1.8	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°	670.1	47.5
0°-40°	1220.6	86.5
0°-60°	1402.0	99.4
0°-90°	1410.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	202	162	114	101	98	37
15°	2309	742	77	69	73	725
25°	7834	1139	34	42	54	3492
35°	7705	224	14	24	36	4504
45°	1383	23	7	14	22	1269
55°	18	4	3	8	12	29
65°	2	2	3	6	5	2
75°	2	2	3	4	2	1
85°	0	2	2	2	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°	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6
2.5°	150.0	151.4	152.2	148.6	149.3	147.9	149.3	146.3	141.2	142.7	138.4
5°	201.7	198.8	198.0	192.2	190.7	187.8	187.8	181.3	171.8	170.4	161.6
7.5°	356.7	341.5	328.3	308.7	289.7	275.2	269.4	246.1	220.7	211.1	190.7
10°	850.4	847.5	814.7	752.9	681.5	629.8	600.0	509.6	395.4	325.4	252.6
12.5°	1547.9	1533.4	1486.8	1373.2	1250.2	1172.9	1112.5	930.5	760.9	624.6	447.8
15°	2308.8	2249.7	2181.3	2005.1	1832.6	1732.1	1646.2	1427.7	1165.0	969.1	741.9
17.5°	3121.4	3147.5	2981.5	2677.9	2371.4	2214.2	2068.5	1732.8	1445.3	1241.3	985.8
20°	4308.2	4252.8	3960.7	3457.7	3005.5	2742.8	2535.9	2051.8	1617.8	1363.8	1122.0
22.5°	5912.1	5735.9	5166.5	4315.4	3598.3	3233.5	2940.0	2287.7	1762.7	1426.3	1143.8
25°	7834.2	7671.1	6616.8	5140.3	4079.5	3607.0	3207.9	2437.7	1820.9	1436.4	1139.4
26°	8461.9	8219.4	7152.0	5433.7	4227.3	3701.6	3274.2	2466.8	1822.4	1428.4	1120.5
27°	8786.6	8596.5	7594.7	5671.8	4328.6	3761.4	3311.4	2474.1	1807.8	1410.3	1091.4
28°	9000.7	8822.9	7875.0	5827.6	4380.3	3784.6	3322.3	2458.0	1775.2	1378.2	1045.5
29°	9133.2	8946.0	8012.0	5898.3	4383.8	3774.4	3301.9	2415.7	1730.7	1339.7	992.5
30°	9171.8	8969.4	8015.5	5869.1	4329.9	3719.9	3244.4	2347.4	1676.8	1291.0	933.4
31°	9103.3	8894.3	7883.7	5736.6	4219.3	3613.5	3154.1	2257.1	1609.8	1239.3	842.4
32°	8989.8	8712.3	7607.8	5516.7	4067.9	3485.4	3041.3	2158.7	1538.5	1173.6	714.3
33°	8748.0	8413.1	7185.5	5240.8	3885.9	3338.3	2909.4	2049.5	1470.8	1060.8	530.7
34°	8384.7	7961.7	6667.8	4919.7	3679.8	3154.8	2758.0	1948.4	1400.2	911.6	363.4
35°	7704.6	7310.8	6096.3	4577.5	3457.7	2977.2	2591.3	1815.9	1304.0	731.0	224.2
36°	6943.9	6654.0	5542.3	4229.5	3230.6	2793.0	2419.5	1718.3	1162.0	538.1	152.2
37°	6166.2	5909.2	5019.4	3887.2	3002.6	2589.2	2244.7	1607.6	993.2	358.9	122.3
38°	5425.7	5221.8	4523.0	3550.9	2766.0	2375.8	2061.3	1489.6	811.1	230.9	100.5
39°	4745.7	4592.8	4036.6	3225.5	2528.7	2166.8	1885.0	1341.2	618.9	164.5	83.7
40°	4106.4	3998.7	3567.6	2904.4	2292.7	1961.4	1725.6	1161.3	429.5	130.3	67.7
42.5°	2793.0	2766.0	2510.5	2090.3	1703.0	1509.2	1364.4	653.1	165.3	78.6	37.9
45°	1382.7	1401.6	1299.7	1195.6	1114.8	1055.7	859.9	272.4	91.7	43.0	23.3
47.5°	489.2	489.9	421.5	375.8	358.9	357.4	260.0	96.1	48.8	26.2	16.7
50°	138.4	149.3	140.5	143.4	112.1	95.4	77.9	46.6	24.8	16.7	10.9
51°	85.2	91.7	85.9	88.8	77.2	69.2	58.2	34.9	19.7	13.8	10.2
52°	54.6	58.2	55.3	56.2	51.7	45.1	39.3	25.6	16.0	11.6	8.7
53°	37.1	39.3	37.1	37.1	34.2	32.0	27.7	18.9	13.1	9.5	6.6
54°	25.6	26.2	26.2	26.2	24.0	22.6	19.7	14.6	10.9	8.7	5.8
55°	18.2	18.9	18.2	18.2	17.5	16.0	14.6	10.9	8.7	7.3	4.4
57.5°	8.0	8.0	8.0	8.7	8.0	8.0	7.3	6.6	5.8	4.4	2.9
60°	3.6	3.6	3.6	3.6	4.4	4.4	4.4	4.4	3.6	2.9	2.9
61°	2.9	2.9	2.9	2.9	2.9	3.6	3.6	3.6	2.9	2.9	2.2
62°	2.2	2.2	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2
63°	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.2	2.2	2.2
64°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
65°	2.2	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2
66°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2
77.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	2.2
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	2.2
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	2.2
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	2.2
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5	1.5	2.2
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°	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6
2.5°	135.4	134.7	131.0	127.5	128.2	126.7	125.2	123.0	121.6	118.0	118.0
5°	154.3	150.7	142.7	135.4	134.7	131.8	127.5	123.0	119.4	114.3	112.8
7.5°	176.2	166.0	152.9	141.2	139.0	134.7	126.7	120.8	114.3	107.8	105.6
10°	207.5	183.5	160.9	143.4	139.0	132.5	122.3	114.3	107.1	99.0	96.1
12.5°	318.9	226.4	171.1	143.4	135.4	127.5	115.0	105.6	96.9	88.1	85.2
15°	531.4	361.9	216.9	143.4	128.9	119.4	104.1	94.6	85.2	77.2	74.3
17.5°	733.9	514.8	302.2	161.6	129.6	109.9	91.0	80.8	72.8	64.8	62.6
20°	851.1	600.0	358.2	179.9	128.2	99.0	77.9	67.0	59.0	53.1	51.0
22.5°	866.4	603.5	345.8	160.9	107.8	82.3	64.8	54.6	48.0	43.0	41.5
25°	825.7	532.9	276.6	114.3	80.1	67.0	51.0	43.7	38.6	34.2	33.5
26°	794.4	490.7	241.1	94.6	70.6	59.7	46.0	39.3	34.9	31.3	30.6
27°	749.9	445.6	206.0	78.6	62.6	53.9	40.8	35.8	32.0	28.4	28.4
28°	699.7	396.8	166.0	66.4	56.2	48.0	37.1	32.0	28.4	26.2	26.2
29°	639.3	326.1	121.6	57.5	49.5	42.2	32.8	28.4	25.6	24.0	24.0
30°	549.7	236.6	83.7	50.2	43.0	37.1	29.1	25.6	23.3	21.8	21.8
31°	429.5	145.6	65.5	43.7	37.9	32.8	26.2	22.6	21.1	19.7	20.4
32°	292.8	91.0	56.2	37.9	33.5	28.4	23.3	20.4	18.9	18.2	18.2
33°	166.7	75.7	48.8	32.8	28.4	24.8	20.4	18.2	17.5	16.7	16.7
34°	110.7	64.8	42.2	27.7	23.3	21.1	17.5	16.0	15.4	15.4	15.4
35°	93.2	56.2	34.2	23.3	20.4	18.2	15.4	14.6	13.8	13.8	14.6
36°	78.6	46.6	27.7	19.7	17.5	16.0	13.8	13.1	12.4	12.4	13.1
37°	66.4	37.1	23.3	16.7	14.6	13.8	12.4	11.6	11.6	11.6	12.4
38°	53.9	29.8	19.7	14.6	13.1	11.6	10.9	10.2	10.2	10.9	11.6
39°	42.2	24.0	16.0	12.4	10.9	10.2	9.5	9.5	9.5	9.5	10.2
40°	33.5	20.4	13.8	10.9	9.5	9.5	8.7	8.0	8.7	8.7	10.2
42.5°	21.1	14.6	10.2	8.0	7.3	7.3	6.6	6.6	6.6	7.3	8.0
45°	15.4	11.6	8.0	6.6	5.8	5.2	5.2	5.2	5.8	6.6	7.3
47.5°	11.6	8.0	5.8	4.4	3.6	3.6	3.6	3.6	4.4	5.2	5.8
50°	8.0	5.2	3.6	2.9	2.9	2.9	2.9	2.9	3.6	4.4	5.2
51°	6.6	4.4	3.6	2.9	2.9	2.2	2.2	2.9	3.6	3.6	4.4
52°	5.2	3.6	2.9	2.2	2.2	2.2	2.2	2.9	2.9	3.6	4.4
53°	4.4	3.6	2.9	2.2	2.2	2.2	2.2	2.2	2.9	3.6	4.4
54°	3.6	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.6	4.4
55°	2.9	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	3.6
57.5°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.6
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.6
61°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.6
62°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.6
63°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	3.6
64°	2.2	2.2	2.2	2.2	2.9	2.9	2.2	2.2	2.9	2.9	3.6
65°	2.2	2.2	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9	3.6
66°	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9	3.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.9	2.9	2.9
75°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9
80°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.9	2.9
82.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.9
85°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.2	2.2
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°	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6
2.5°	116.5	114.3	112.8	112.1	112.8	111.4	109.2	109.9	109.2	108.5	108.5
5°	110.7	107.1	105.6	104.8	104.8	104.1	101.2	101.9	101.2	100.5	100.5
7.5°	102.6	99.7	97.7	96.9	96.9	96.1	93.2	94.6	93.2	92.5	93.2
10°	93.2	90.3	89.5	88.1	88.1	87.5	85.2	85.9	85.2	85.2	85.2
12.5°	83.0	80.1	79.4	78.6	79.4	78.6	76.5	77.9	77.2	77.2	77.9
15°	72.1	69.9	69.9	69.2	69.9	69.2	68.4	69.2	69.2	69.2	70.6
17.5°	61.2	59.7	59.7	59.0	59.7	59.7	59.0	61.2	61.2	62.6	64.1
20°	50.2	48.8	49.5	49.5	51.0	51.0	51.0	53.1	53.9	55.3	57.5
22.5°	41.5	40.8	41.5	41.5	43.0	43.7	43.7	46.0	48.0	49.5	51.7
25°	33.5	33.5	34.9	34.9	35.8	37.1	37.9	40.8	42.2	43.7	46.0
26°	31.3	31.3	32.0	32.8	33.5	34.9	35.8	38.6	40.0	41.5	43.7
27°	28.4	28.4	29.8	30.6	31.3	32.8	34.2	36.4	37.9	40.0	41.5
28°	26.2	26.2	27.7	28.4	29.1	31.3	32.0	34.2	35.8	37.9	40.0
29°	24.0	24.8	26.2	26.2	27.7	29.1	29.8	32.8	34.2	35.8	37.9
30°	22.6	23.3	24.0	24.8	25.6	26.9	28.4	30.6	32.0	33.5	35.8
31°	21.1	21.8	22.6	23.3	24.0	25.6	26.9	29.1	30.6	32.0	34.2
32°	19.7	19.7	21.1	21.8	22.6	24.0	25.6	27.7	29.1	30.6	32.8
33°	18.2	18.9	19.7	20.4	21.1	22.6	24.0	25.6	26.9	29.1	31.3
34°	16.7	17.5	18.9	19.7	20.4	21.8	22.6	24.0	25.6	27.7	29.1
35°	15.4	16.7	17.5	18.2	18.9	20.4	21.1	23.3	24.0	26.2	27.7
36°	14.6	15.4	16.7	17.5	18.2	18.9	19.7	21.8	23.3	24.8	26.2
37°	13.1	14.6	15.4	16.0	16.7	18.2	18.9	20.4	21.8	23.3	24.8
38°	12.4	13.1	14.6	15.4	16.0	16.7	17.5	19.7	20.4	21.8	23.3
39°	11.6	12.4	13.8	14.6	14.6	16.0	16.7	18.2	18.9	20.4	22.6
40°	10.9	11.6	13.1	13.1	13.8	15.4	16.0	17.5	18.2	19.7	21.1
42.5°	9.5	10.2	10.9	11.6	12.4	13.1	13.8	15.4	16.0	16.7	18.2
45°	8.0	8.7	10.2	10.2	10.9	11.6	12.4	13.1	13.8	15.4	16.0
47.5°	6.6	8.0	8.7	9.5	9.5	10.2	10.9	11.6	12.4	13.1	13.8
50°	5.8	6.6	7.3	8.0	8.0	8.7	9.5	10.2	10.2	10.9	12.4
51°	5.8	6.6	7.3	7.3	8.0	8.7	8.7	9.5	10.2	10.2	10.9
52°	5.2	5.8	6.6	7.3	7.3	8.0	8.7	8.7	9.5	10.2	10.9
53°	5.2	5.8	6.6	6.6	7.3	8.0	8.0	8.7	8.7	9.5	10.2
54°	5.2	5.8	6.6	6.6	7.3	7.3	8.0	8.0	8.7	8.7	9.5
55°	4.4	5.2	5.8	6.6	6.6	7.3	7.3	8.0	8.0	8.7	8.7
57.5°	4.4	5.2	5.8	5.8	5.8	6.6	6.6	7.3	7.3	7.3	8.0
60°	4.4	5.2	5.2	5.8	5.8	6.6	6.6	6.6	6.6	7.3	7.3
61°	4.4	4.4	5.2	5.8	5.8	5.8	6.6	6.6	6.6	6.6	7.3
62°	4.4	4.4	5.2	5.2	5.8	5.8	5.8	6.6	6.6	6.6	6.6
63°	3.6	4.4	5.2	5.2	5.8	5.8	5.8	5.8	5.8	6.6	6.6
64°	3.6	4.4	5.2	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.8
65°	3.6	4.4	5.2	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.8
66°	3.6	4.4	5.2	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.8

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219515

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.6	3.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	3.6	3.6	3.6	4.4	4.4	4.4	4.4	4.4	4.4	3.6	3.6
77.5°	2.9	2.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.9
80°	2.9	2.9	3.6	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2	1.5
87.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2	1.5	1.5
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: P1219515

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6
2.5°	109.2	107.1	106.3	106.3	107.1	106.3	107.1	106.3
5°	100.5	98.3	98.3	97.7	98.3	97.7	98.3	97.7
7.5°	93.2	91.0	91.0	91.0	91.0	91.0	91.7	91.0
10°	85.9	83.7	83.7	83.0	83.7	83.7	84.4	83.7
12.5°	78.6	77.2	77.2	76.5	77.9	77.2	78.6	77.9
15°	72.1	70.6	70.6	71.3	72.1	72.1	72.8	72.8
17.5°	65.5	65.5	65.5	66.4	67.0	67.7	68.4	67.7
20°	59.7	59.7	60.4	61.2	61.9	62.6	63.3	63.3
22.5°	53.9	53.9	54.6	56.2	57.5	58.2	59.0	59.0
25°	48.0	48.8	49.5	50.2	52.4	53.1	53.9	53.9
26°	46.0	46.6	48.0	48.8	50.2	51.0	52.4	52.4
27°	44.4	45.1	46.0	46.6	48.8	49.5	51.0	50.2
28°	42.2	43.0	43.7	45.1	46.6	48.0	48.8	48.8
29°	40.0	41.5	42.2	43.0	45.1	46.0	46.6	46.6
30°	38.6	39.3	40.0	41.5	43.0	44.4	45.1	45.1
31°	36.4	37.9	38.6	39.3	41.5	42.2	43.7	43.7
32°	34.9	35.8	36.4	37.9	39.3	40.8	41.5	41.5
33°	32.8	34.2	34.9	35.8	37.9	39.3	40.0	39.3
34°	31.3	32.8	32.8	34.2	35.8	37.1	37.9	37.9
35°	29.8	30.6	31.3	32.8	34.2	35.8	36.4	36.4
36°	28.4	29.1	29.8	31.3	32.8	34.2	34.9	34.9
37°	26.9	27.7	28.4	29.1	31.3	32.8	33.5	33.5
38°	25.6	26.2	26.9	28.4	29.8	30.6	32.0	32.0
39°	24.0	24.8	25.6	26.9	28.4	29.1	30.6	29.8
40°	22.6	24.0	24.0	25.6	26.9	27.7	29.1	28.4
42.5°	19.7	20.4	21.1	21.8	23.3	24.8	25.6	25.6
45°	17.5	18.2	18.9	19.7	20.4	21.1	22.6	21.8
47.5°	14.6	15.4	16.0	16.7	17.5	18.2	18.9	18.9
50°	13.1	13.1	13.8	13.8	15.4	16.0	16.7	16.7
51°	11.6	12.4	13.1	13.1	14.6	14.6	15.4	15.4
52°	11.6	11.6	12.4	12.4	13.1	13.8	14.6	14.6
53°	10.9	10.9	11.6	11.6	12.4	13.1	13.8	13.8
54°	10.2	10.2	10.9	10.9	11.6	12.4	13.1	13.1
55°	9.5	9.5	10.2	10.2	10.9	11.6	12.4	12.4
57.5°	8.0	8.7	8.7	9.5	9.5	10.2	10.2	10.9
60°	7.3	8.0	8.0	8.0	8.7	8.7	8.7	8.7
61°	7.3	7.3	7.3	8.0	8.0	7.3	8.0	7.3
62°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
63°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
64°	6.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8
65°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.2
66°	5.8	5.8	5.2	5.8	5.2	5.2	5.2	5.2

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219515

CATALOG NUMBER: LDSQA4A15950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9
75°	3.6	3.6	3.6	2.9	2.9	2.9	2.9	2.2
77.5°	2.9	2.9	2.9	2.9	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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

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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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269

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67.5°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.9	2.9	3.6
70°	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.9	2.9	2.9

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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

Scaled Data Report



67.5°	3.6	4.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
70°	3.6	4.4	4.4	4.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report





67.5°	5.2	5.2	5.2	5.2	5.2	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	3.6	3.6	3.6

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)