

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: P1219461

Luminaire Tested: **LDSQA4A15927D010TE 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: P1219461
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: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

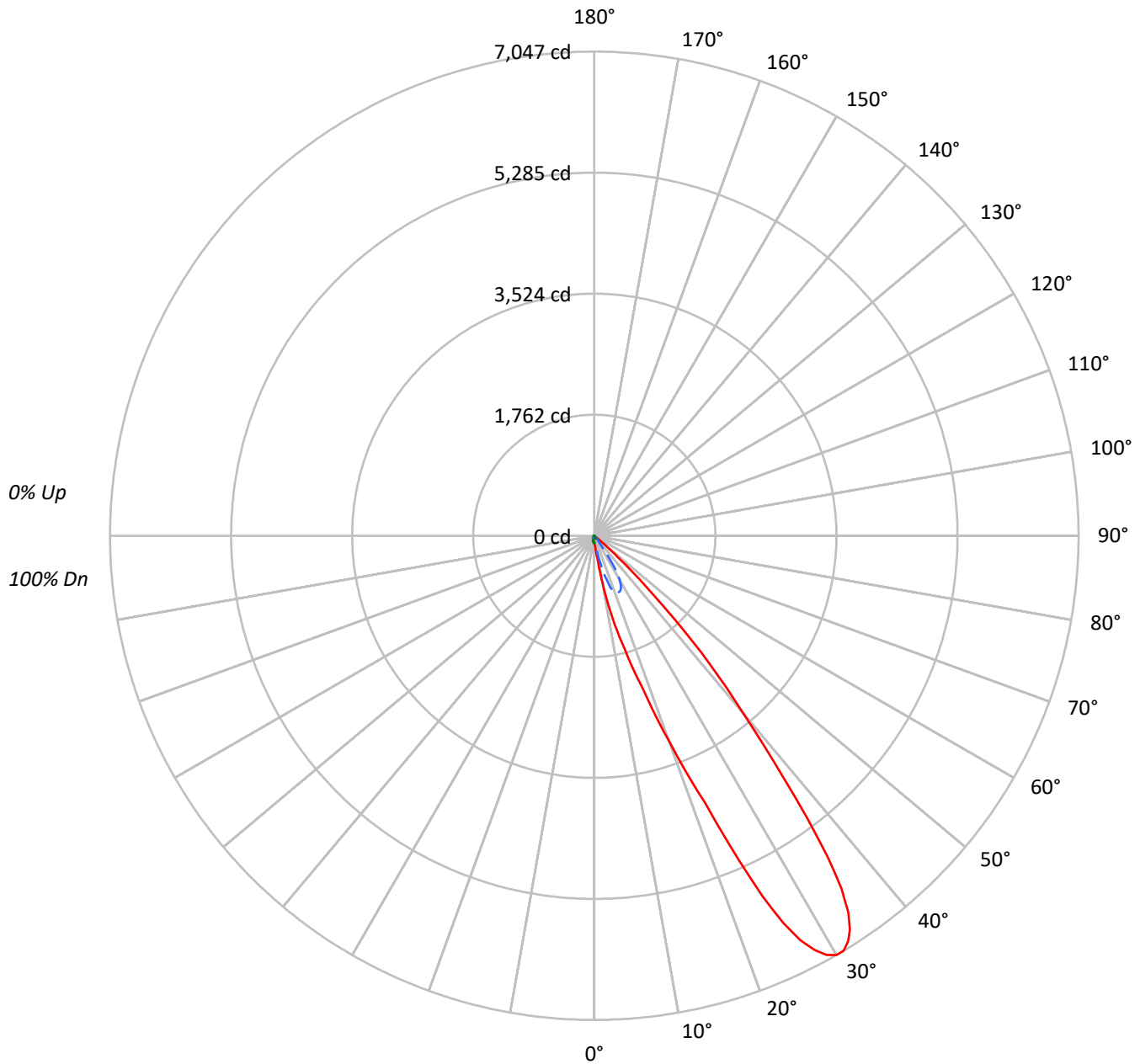
Lumens per Lamp: N/A
Luminaire Lumens: 1106.3 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

Luminous Intensity Polar Plot



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10104	10104	10104
5°	16055	9618	8295
10°	70364	8509	7073
15°	171932	6900	6158
20°	328020	5124	5629
25°	618167	3677	4917
30°	788203	2618	4329
35°	741450	1597	3702
40°	425342	1088	3174
45°	164198	754	2685
50°	21838	558	2231
55°	3310	524	1875
60°	969	484	1550
65°	573	573	1146
70°	340	708	878
75°	449	711	711
80°	0	1060	669
85°	0	2112	667



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	1.2
10°-20°	118.5	10.7
20°-30°	378.1	34.2
30°-40°	438.1	39.6
40°-50°	142.5	12.9
50°-60°	9.0	0.8
60°-70°	3.3	0.3
70°-80°	2.4	0.2
80°-90°	1.4	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°	509.6	46.1
0°-40°	947.7	85.7
0°-60°	1099.2	99.4
0°-90°	1106.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	165	138	99	86	85	32
15°	1714	618	69	59	61	544
25°	5783	888	34	36	46	2599
35°	6270	212	14	21	31	3607
45°	1198	26	6	12	20	1070
55°	20	5	3	7	11	30
65°	2	2	2	5	5	2
75°	1	2	2	3	2	1
85°	0	1	2	2	1	0
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	127.1	128.3	128.3	126.5	126.5	124.6	123.5	122.8	122.2	120.4	119.7
5°	165.1	166.4	167.0	162.1	160.3	156.6	153.4	150.4	146.7	142.5	138.1
7.5°	318.7	292.8	297.2	260.4	253.5	237.6	224.7	204.4	189.7	175.0	163.4
10°	715.3	690.7	686.5	632.4	579.0	539.1	496.1	421.8	354.3	282.4	224.1
12.5°	1225.5	1189.3	1169.1	1062.9	1000.2	941.3	875.6	759.5	629.9	519.5	404.0
15°	1714.3	1711.2	1638.7	1520.2	1401.1	1328.7	1243.9	1100.3	946.7	778.5	617.7
17.5°	2304.3	2328.3	2204.2	1972.8	1784.3	1666.4	1549.7	1325.0	1133.5	970.1	793.9
20°	3181.8	3117.9	2901.1	2538.9	2220.2	2042.8	1861.6	1530.7	1256.2	1058.5	879.8
22.5°	4212.6	4163.5	3758.2	3154.1	2648.7	2399.5	2150.2	1719.8	1362.4	1106.4	896.4
25°	5783.2	5581.2	4794.7	3814.2	3041.8	2688.6	2368.8	1842.6	1410.4	1112.6	888.4
26°	6265.2	6123.3	5215.9	4076.3	3162.7	2768.5	2423.4	1867.7	1414.0	1107.0	873.1
27°	6607.2	6499.2	5566.5	4269.1	3250.5	2823.8	2459.1	1878.2	1405.4	1095.3	852.2
28°	6832.6	6746.0	5831.1	4408.5	3303.9	2853.3	2476.3	1875.8	1388.3	1075.1	822.8
29°	6975.6	6892.1	5985.8	4487.7	3322.9	2858.1	2471.9	1857.3	1360.7	1045.0	780.4
30°	7046.2	6955.3	6038.0	4496.3	3302.0	2829.9	2439.4	1816.8	1322.5	1008.8	733.7
31°	7046.8	6946.1	5994.4	4430.0	3240.1	2769.7	2381.6	1749.2	1272.8	965.8	671.1
32°	6965.1	6861.4	5848.9	4295.5	3143.1	2694.2	2304.3	1680.5	1220.7	917.9	580.8
33°	6828.2	6705.5	5596.6	4108.9	3019.0	2591.0	2211.7	1603.8	1168.4	841.2	462.3
34°	6607.2	6439.6	5244.1	3882.3	2869.2	2470.7	2105.4	1520.8	1115.6	734.4	330.4
35°	6269.5	6033.2	4836.4	3631.8	2708.9	2340.6	1985.6	1434.3	1051.2	602.3	211.9
36°	5780.8	5475.6	4412.1	3372.6	2543.8	2203.6	1864.1	1350.8	949.2	456.8	138.8
37°	5142.9	4873.9	4006.3	3111.8	2372.4	2057.5	1753.0	1266.7	824.0	319.3	113.0
38°	4487.7	4289.4	3609.6	2852.6	2195.0	1899.7	1617.9	1178.9	687.1	210.0	94.5
39°	3897.0	3764.4	3221.7	2596.0	2012.1	1761.5	1482.8	1067.1	540.9	149.2	79.8
40°	3363.4	3272.0	2846.4	2334.4	1829.1	1594.6	1355.7	930.2	389.9	119.1	66.9
42.5°	2293.9	2248.5	1991.2	1679.9	1353.2	1218.8	1067.7	559.4	154.7	75.5	40.5
45°	1198.5	1178.9	1085.5	983.7	882.3	847.3	686.5	251.2	87.2	44.3	25.7
47.5°	466.6	467.9	386.8	330.4	313.7	291.7	221.1	90.3	49.1	27.0	17.2
50°	144.9	155.9	143.6	135.7	103.8	86.5	71.9	44.8	26.4	16.5	11.1
51°	89.0	94.5	89.0	89.0	73.1	63.9	54.6	34.4	20.9	13.5	9.8
52°	57.7	60.8	57.7	54.1	50.4	45.4	39.3	25.7	16.5	11.1	8.0
53°	39.3	41.2	39.3	36.8	33.8	31.3	27.6	19.0	13.5	9.2	6.7
54°	27.6	28.8	27.6	25.7	24.0	22.1	20.3	14.8	11.1	8.0	6.1
55°	19.6	20.9	20.3	19.0	17.2	16.5	15.3	11.7	9.2	6.7	5.0
57.5°	9.2	9.8	9.8	9.2	9.2	8.6	8.0	7.3	5.5	4.3	3.7
60°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.1	3.1
61°	3.7	3.7	3.7	3.7	3.7	3.7	4.3	3.7	3.1	3.1	2.5
62°	3.1	3.1	3.1	3.1	3.1	3.7	3.7	3.1	3.1	2.5	2.5
63°	2.5	2.5	2.5	2.5	3.1	3.1	3.1	3.1	2.5	2.5	2.5
64°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9
65°	2.5	2.5	1.9	1.9	1.9	2.5	1.9	2.5	1.9	1.9	1.9
66°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9
77.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.9
80°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	116.0	113.0	111.8	110.5	109.9	108.7	106.8	105.0	104.3	102.0	99.5
5°	130.8	125.2	121.0	116.6	115.4	112.4	108.7	104.3	102.6	98.9	95.8
7.5°	148.0	136.9	128.9	121.6	118.5	114.8	108.1	102.6	98.9	93.4	89.6
10°	176.8	151.1	135.7	122.8	117.9	113.0	104.3	97.0	92.1	86.5	82.3
12.5°	280.0	195.8	147.3	123.5	116.6	109.3	98.9	90.3	84.2	78.0	74.2
15°	441.4	298.4	191.0	129.6	114.2	103.2	90.9	81.1	74.9	68.8	65.0
17.5°	589.4	401.5	249.3	144.2	115.4	97.6	81.1	71.2	64.4	58.9	56.5
20°	660.6	450.1	277.5	147.3	108.1	87.2	70.0	60.8	54.6	49.7	47.3
22.5°	667.5	447.0	260.4	125.8	89.6	73.7	58.9	50.4	45.4	41.8	39.3
25°	635.5	396.6	208.8	92.7	70.0	61.4	48.5	41.2	37.4	34.4	32.6
26°	610.9	367.8	183.5	80.4	63.9	55.8	44.3	38.1	34.4	32.0	30.1
27°	577.2	334.0	154.1	69.4	58.9	50.4	40.5	35.0	32.0	30.1	28.2
28°	536.7	300.9	127.7	61.4	53.5	45.4	37.4	32.0	29.5	27.6	25.7
29°	493.0	257.3	100.1	55.2	47.9	41.2	33.8	28.8	26.4	25.1	24.0
30°	431.6	200.2	76.7	49.7	43.0	36.8	30.7	26.4	24.6	23.4	22.1
31°	345.1	137.5	62.0	44.3	38.7	33.2	27.6	24.0	22.1	20.9	20.3
32°	247.4	84.7	54.1	39.3	34.4	30.1	24.0	21.5	19.6	19.0	18.4
33°	152.3	69.4	47.9	35.0	30.1	26.4	21.5	19.0	17.8	17.2	16.5
34°	100.1	60.2	42.4	30.1	26.4	22.7	18.4	16.5	15.9	15.3	15.3
35°	84.7	53.5	36.8	25.7	22.1	19.6	15.9	14.8	14.2	13.5	14.2
36°	73.1	46.6	30.7	22.1	19.0	16.5	14.2	12.9	12.3	12.3	12.9
37°	64.4	39.3	25.7	18.4	16.5	14.8	12.3	11.7	11.1	11.1	11.7
38°	54.6	32.0	21.5	15.9	14.2	12.3	11.1	10.4	10.4	10.4	11.1
39°	44.8	27.0	18.4	13.5	12.3	11.1	9.8	9.2	9.2	9.8	9.8
40°	36.8	22.7	15.3	11.7	10.4	9.8	8.6	8.6	8.6	8.6	9.2
42.5°	24.0	15.3	11.1	8.6	8.0	7.3	6.7	6.7	6.7	6.7	7.3
45°	15.9	11.1	8.6	6.7	6.1	5.5	5.5	5.0	5.5	5.5	6.1
47.5°	11.1	8.0	6.1	5.0	4.3	3.7	3.7	3.7	4.3	5.0	5.0
50°	8.0	5.5	4.3	3.1	3.1	3.1	3.1	3.1	3.7	3.7	4.3
51°	6.7	5.0	3.7	3.1	3.1	2.5	2.5	2.5	3.1	3.7	4.3
52°	5.5	4.3	3.1	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.7
53°	5.0	3.7	3.1	2.5	2.5	2.5	2.5	2.5	3.1	3.1	3.7
54°	4.3	3.1	2.5	2.5	2.5	1.9	1.9	2.5	2.5	3.1	3.7
55°	3.7	3.1	2.5	2.5	1.9	1.9	1.9	1.9	2.5	3.1	3.1
57.5°	3.1	2.5	2.5	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
60°	2.5	2.5	2.5	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
61°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.5	3.1
62°	2.5	1.9	2.5	2.5	2.5	1.9	1.9	1.9	2.5	2.5	3.1
63°	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	2.5	2.5	2.5
64°	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5	3.1
65°	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5	3.1
66°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	2.5	2.5	2.5



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	1.9	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5
75°	1.9	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	2.5
77.5°	1.9	1.9	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	2.5
80°	1.9	1.9	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	1.9	1.9	2.5	2.5	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	98.2	98.2	97.6	96.4	97.6	96.4	95.1	94.5	94.0	93.4	92.1
5°	93.4	92.7	91.5	90.9	90.9	89.6	88.4	87.2	86.5	85.9	84.7
7.5°	87.2	86.5	84.7	84.2	84.2	82.9	81.1	80.4	79.8	79.2	78.0
10°	79.8	79.2	77.3	76.7	76.7	75.5	74.2	73.1	72.5	71.9	70.6
12.5°	71.2	70.6	69.4	68.8	68.8	67.5	66.3	65.7	65.7	65.0	64.4
15°	62.7	62.0	60.8	60.8	60.8	59.6	58.9	58.3	58.9	58.9	58.3
17.5°	54.1	53.5	52.2	52.2	52.2	52.2	51.6	51.6	52.2	52.8	52.8
20°	45.4	44.8	44.8	44.3	44.8	45.4	44.8	45.4	46.6	47.3	47.9
22.5°	37.4	37.4	37.4	37.4	38.1	38.7	38.7	39.9	41.2	41.8	43.0
25°	31.3	31.3	32.0	32.0	32.6	33.2	33.8	34.4	36.2	37.4	38.1
26°	28.8	29.5	29.5	30.1	30.7	31.3	32.0	32.6	34.4	35.6	36.2
27°	27.0	27.0	27.6	28.2	28.8	29.5	30.1	31.3	32.6	33.8	35.0
28°	25.1	25.1	25.7	26.4	27.0	27.6	28.2	29.5	30.7	32.6	33.2
29°	23.4	24.0	24.0	24.6	25.1	25.7	27.0	27.6	29.5	30.7	32.0
30°	21.5	22.1	22.7	22.7	23.4	24.0	25.1	26.4	27.6	29.5	30.1
31°	20.3	20.9	20.9	21.5	22.1	22.7	24.0	25.1	26.4	27.6	28.8
32°	18.4	19.6	19.6	19.6	20.3	21.5	22.7	23.4	25.1	26.4	27.0
33°	17.2	17.8	18.4	18.4	19.0	20.3	21.5	22.1	24.0	25.1	25.7
34°	15.9	16.5	17.2	17.2	17.8	19.0	20.3	20.9	22.7	23.4	24.6
35°	14.8	15.3	15.9	15.9	16.5	17.8	19.0	19.6	20.9	22.1	23.4
36°	13.5	14.2	14.8	15.3	15.9	17.2	17.8	19.0	19.6	20.9	22.1
37°	12.3	12.9	14.2	14.2	15.3	15.9	17.2	17.8	19.0	19.6	20.9
38°	11.1	12.3	12.9	13.5	14.2	15.3	15.9	16.5	17.8	19.0	19.6
39°	10.4	11.7	12.3	12.9	13.5	14.2	14.8	15.9	16.5	17.8	18.4
40°	9.8	10.4	11.7	11.7	12.9	13.5	14.2	14.8	15.9	16.5	17.8
42.5°	8.0	9.2	9.8	10.4	11.1	11.7	12.3	12.9	13.5	14.8	15.3
45°	6.7	8.0	8.6	8.6	9.2	9.8	10.4	11.1	12.3	12.9	13.5
47.5°	5.5	6.7	7.3	8.0	8.0	8.6	9.2	9.8	10.4	11.1	11.7
50°	5.0	5.5	6.1	6.7	7.3	7.3	8.0	8.6	9.2	9.8	9.8
51°	5.0	5.5	6.1	6.1	6.7	7.3	8.0	8.0	8.6	9.2	9.2
52°	4.3	5.0	5.5	6.1	6.7	6.7	7.3	8.0	8.0	8.6	9.2
53°	4.3	5.0	5.5	5.5	6.1	6.7	6.7	7.3	8.0	8.0	8.6
54°	3.7	5.0	5.5	5.5	6.1	6.1	6.7	7.3	7.3	7.3	8.0
55°	3.7	4.3	5.0	5.5	5.5	6.1	6.1	6.7	6.7	7.3	7.3
57.5°	3.7	4.3	5.0	5.0	5.5	5.5	6.1	6.1	6.1	6.1	6.7
60°	3.1	3.7	4.3	5.0	5.0	5.5	5.5	5.5	5.5	5.5	6.1
61°	3.1	3.7	4.3	4.3	5.0	5.0	5.5	5.5	5.5	5.5	5.5
62°	3.1	3.7	4.3	4.3	5.0	5.0	5.0	5.5	5.5	5.5	5.5
63°	3.1	3.7	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0	5.5
64°	3.1	3.7	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	3.1	3.7	4.3	4.3	4.3	5.0	5.0	5.0	5.0	5.0	5.0
66°	3.1	3.7	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.0	4.3



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	2.5	3.1	3.1	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.1
75°	2.5	3.1	3.1	3.1	3.7	3.7	3.7	3.1	3.1	3.1	3.1
77.5°	2.5	2.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.5	2.5
80°	2.5	2.5	2.5	3.1	3.1	3.1	3.1	2.5	2.5	2.5	1.9
82.5°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9
85°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.2
87.5°	1.9	1.9	1.9	2.5	2.5	2.5	1.9	1.9	1.2	1.2	1.2
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: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	93.4	94.0	93.4	93.4	92.1	92.7	91.5	93.4
5°	85.3	85.9	85.3	85.3	84.2	84.2	83.5	85.3
7.5°	78.6	79.2	78.0	78.0	76.7	77.3	76.7	78.0
10°	71.9	71.9	71.9	71.2	70.6	71.2	70.6	71.9
12.5°	65.0	65.7	65.7	65.7	65.0	65.0	64.4	66.3
15°	59.6	60.2	60.8	60.8	60.2	60.8	60.2	61.4
17.5°	54.6	55.8	55.8	56.5	56.5	57.1	57.1	58.3
20°	49.7	51.6	51.6	52.2	52.2	53.5	53.5	54.6
22.5°	44.8	46.6	47.3	47.3	47.9	49.1	49.1	50.4
25°	40.5	42.4	43.0	43.0	43.6	44.8	44.8	46.0
26°	38.7	40.5	41.2	41.8	42.4	43.6	43.6	44.8
27°	36.8	38.7	39.3	39.9	40.5	41.8	41.8	43.0
28°	35.6	37.4	38.1	38.7	39.3	40.5	40.5	41.2
29°	33.8	35.6	36.2	36.8	37.4	38.7	38.7	39.9
30°	32.6	33.8	34.4	35.0	35.6	37.4	37.4	38.7
31°	30.7	32.6	33.2	33.8	34.4	35.6	35.6	37.4
32°	29.5	30.7	31.3	32.0	33.2	33.8	34.4	35.6
33°	27.6	29.5	30.1	30.7	31.3	32.6	33.2	34.4
34°	26.4	27.6	28.8	29.5	30.1	31.3	32.0	33.2
35°	25.1	26.4	27.0	27.6	28.8	30.1	30.1	31.3
36°	24.0	25.1	25.7	26.4	27.6	28.8	28.8	30.1
37°	22.7	24.0	24.6	25.1	26.4	27.6	27.6	28.8
38°	21.5	22.7	23.4	24.0	25.1	26.4	27.0	28.2
39°	20.3	22.1	22.7	23.4	24.0	25.1	25.7	26.4
40°	19.6	20.9	21.5	22.1	22.7	24.0	24.6	25.1
42.5°	16.5	18.4	19.0	19.6	20.3	20.9	21.5	22.1
45°	14.8	15.9	15.9	16.5	17.2	18.4	18.4	19.6
47.5°	12.9	13.5	14.2	14.2	14.8	15.9	15.9	16.5
50°	11.1	11.7	12.3	12.3	12.9	13.5	14.2	14.8
51°	10.4	11.1	11.1	11.7	12.3	12.9	13.5	14.2
52°	9.8	10.4	10.4	11.1	11.7	12.3	12.3	12.9
53°	9.2	9.8	9.8	10.4	10.4	11.7	11.7	12.3
54°	8.6	9.2	9.2	9.8	9.8	11.1	11.1	11.7
55°	8.0	8.6	9.2	9.2	9.2	9.8	10.4	11.1
57.5°	7.3	8.0	8.0	8.0	8.6	8.6	9.2	9.2
60°	6.1	6.7	6.7	6.7	7.3	7.3	7.3	8.0
61°	6.1	6.1	6.7	6.7	6.1	6.1	6.1	6.7
62°	5.5	6.1	6.1	5.5	5.5	5.5	5.5	6.1
63°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
64°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	5.0	5.0	5.0	5.0	5.0	5.0	4.3	5.0
66°	4.3	5.0	5.0	4.3	4.3	4.3	4.3	4.3



TEST NUMBER: P1219461

CATALOG NUMBER: LDSQA4A15927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.1	3.1	3.1	3.1	3.1	2.5	2.5	2.5
75°	3.1	2.5	2.5	2.5	2.5	2.5	2.5	1.9
77.5°	2.5	2.5	2.5	2.5	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.2	1.2
82.5°	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	1.9	1.9	2.5	2.5	2.5	2.5	1.9	1.9	1.9	2.5	2.5
70°	1.9	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	2.5	2.5

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	3.1	3.7	3.7	3.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	3.1	3.1	3.7	3.7	3.7	4.3	4.3	3.7	3.7	3.7	3.7

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	4.3	4.3	4.3	4.3	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.1	3.1	3.1	3.1

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)