

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: P1219501

Luminaire Tested: **LDSQA4A15940D010TE 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: P1219501
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: LDSQA4A15940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

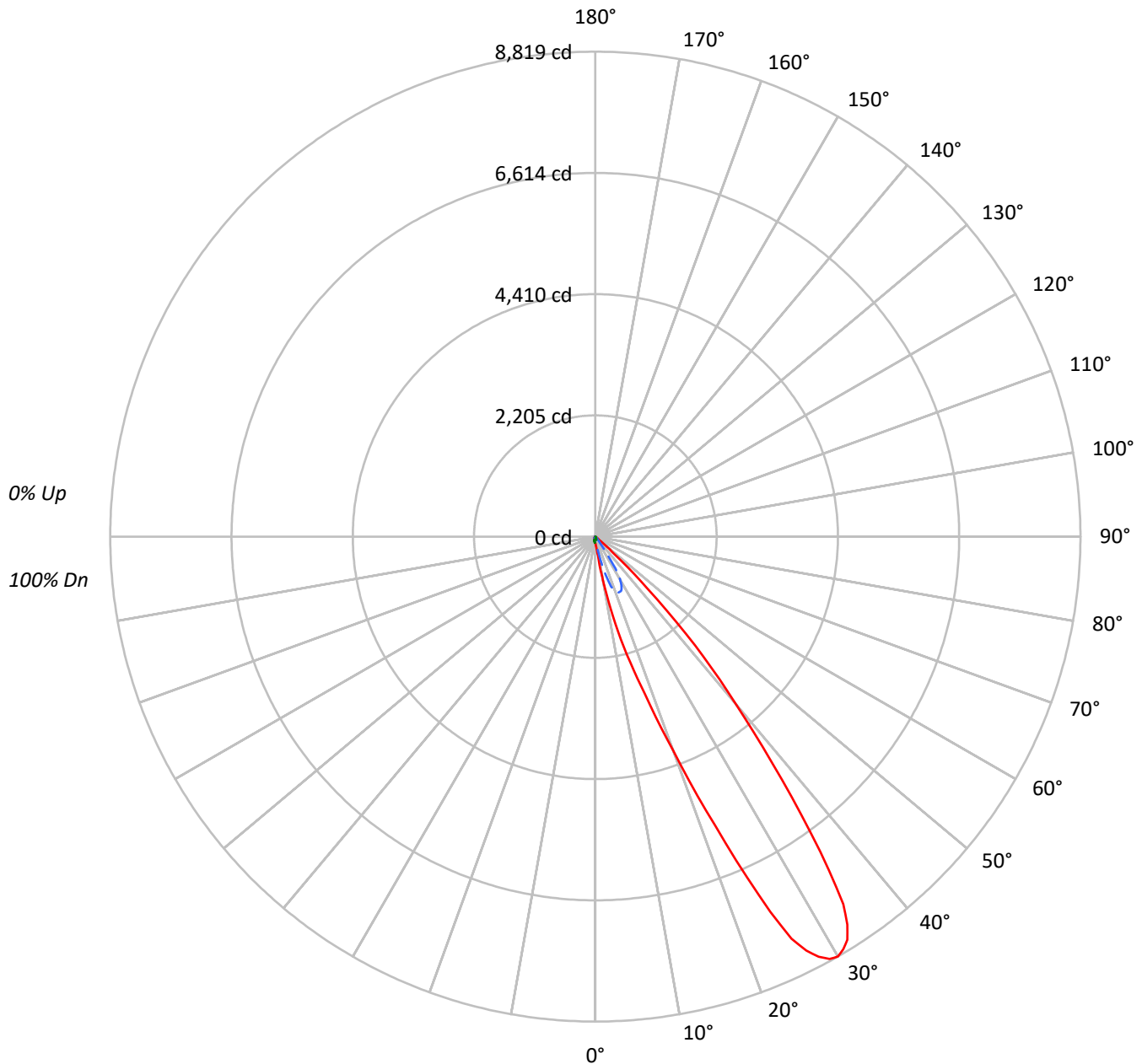
Lumens per Lamp: N/A
Luminaire Lumens: 1356.2 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	11325	11325	11325
5°	18856	10687	9131
10°	80437	9365	7919
15°	222650	7442	7020
20°	427061	5268	6278
25°	805193	3517	5537
30°	986512	2349	4855
35°	876128	1573	4139
40°	499335	1062	3452
45°	182145	863	2877
50°	20060	633	2426
55°	2956	473	2010
60°	678	543	1628
65°	481	642	1146
70°	397	793	991
75°	524	1048	786
80°	0	1562	781
85°	0	2334	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	1.1
10°-20°	146.9	10.8
20°-30°	482.7	35.6
30°-40°	529.3	39.0
40°-50°	165.3	12.2
50°-60°	9.1	0.7
60°-70°	3.7	0.3
70°-80°	2.8	0.2
80°-90°	1.7	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°	644.3	47.5
0°-40°	1173.7	86.5
0°-60°	1348.1	99.4
0°-90°	1356.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	117	117	117	117	117	
5°	194	155	110	97	94	36
15°	2220	713	74	66	70	697
25°	7533	1096	33	41	52	3358
35°	7408	216	13	23	35	4331
45°	1330	22	6	13	21	1221
55°	18	4	3	8	12	27
65°	2	2	3	6	5	2
75°	1	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°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	144.2	145.6	146.3	142.9	143.6	142.2	143.6	140.7	135.8	137.2	133.1
5°	193.9	191.2	190.4	184.8	183.4	180.6	180.6	174.3	165.2	163.8	155.4
7.5°	343.0	328.4	315.7	296.8	278.6	264.6	259.0	236.6	212.2	203.0	183.4
10°	817.7	814.9	783.4	723.9	655.3	605.6	576.9	490.0	380.2	312.9	242.9
12.5°	1488.4	1474.4	1429.6	1320.4	1202.1	1127.8	1069.7	894.7	731.6	600.6	430.6
15°	2220.0	2163.2	2097.4	1928.0	1762.1	1665.5	1582.9	1372.8	1120.2	931.8	713.4
17.5°	3001.3	3026.4	2866.8	2574.9	2280.2	2129.0	1988.9	1666.2	1389.7	1193.6	947.9
20°	4142.5	4089.2	3808.4	3324.7	2889.9	2637.3	2438.4	1972.9	1555.6	1311.3	1078.8
22.5°	5684.7	5515.3	4967.8	4149.4	3459.9	3109.1	2826.9	2199.7	1694.9	1371.4	1099.8
25°	7532.9	7376.1	6362.3	4942.6	3922.6	3468.3	3084.5	2343.9	1750.9	1381.2	1095.6
26°	8136.4	7903.3	6876.9	5224.7	4064.7	3559.2	3148.3	2371.9	1752.3	1373.5	1077.4
27°	8448.7	8265.9	7302.6	5453.7	4162.1	3616.7	3184.0	2378.9	1738.3	1356.1	1049.4
28°	8654.5	8483.6	7572.1	5603.5	4211.8	3639.0	3194.5	2363.5	1706.9	1325.2	1005.3
29°	8781.9	8601.9	7703.8	5671.4	4215.2	3629.2	3174.9	2322.8	1664.1	1288.2	954.3
30°	8819.0	8624.4	7707.2	5643.4	4163.4	3576.8	3119.6	2257.1	1612.3	1241.3	897.5
31°	8753.2	8552.2	7580.5	5516.0	4057.0	3474.5	3032.8	2170.3	1547.9	1191.6	810.0
32°	8644.0	8377.2	7315.2	5304.5	3911.4	3351.3	2924.3	2075.7	1479.3	1128.5	686.8
33°	8411.5	8089.5	6909.1	5039.2	3736.4	3209.9	2797.5	1970.7	1414.2	1020.0	510.3
34°	8062.2	7655.5	6411.3	4730.5	3538.3	3033.5	2651.9	1873.5	1346.3	876.5	349.4
35°	7408.3	7029.6	5861.8	4401.4	3324.7	2862.7	2491.6	1746.1	1253.8	702.9	215.6
36°	6676.8	6398.1	5329.1	4066.8	3106.3	2685.6	2326.4	1652.2	1117.3	517.4	146.3
37°	5929.0	5681.9	4826.3	3737.7	2887.1	2489.6	2158.4	1545.8	955.0	345.1	117.6
38°	5217.0	5021.0	4349.0	3414.3	2659.6	2284.4	1982.0	1432.3	779.9	222.0	96.6
39°	4563.2	4416.2	3881.3	3101.4	2431.4	2083.5	1812.5	1289.6	595.1	158.2	80.5
40°	3948.5	3844.9	3430.4	2792.7	2204.5	1886.0	1659.2	1116.6	413.0	125.3	65.1
42.5°	2685.6	2659.6	2413.9	2009.9	1637.5	1451.2	1311.9	628.0	158.9	75.6	36.4
45°	1329.5	1347.7	1249.7	1149.6	1071.9	1015.1	826.8	261.9	88.2	41.3	22.4
47.5°	470.4	471.1	405.3	361.3	345.1	343.7	250.0	92.4	46.9	25.2	16.1
50°	133.1	143.6	135.1	137.9	107.8	91.7	74.9	44.8	23.8	16.1	10.5
51°	81.9	88.2	82.6	85.4	74.2	66.5	56.0	33.6	18.9	13.3	9.8
52°	52.5	56.0	53.2	54.0	49.7	43.4	37.8	24.6	15.4	11.2	8.4
53°	35.7	37.8	35.7	35.7	32.9	30.8	26.6	18.2	12.6	9.1	6.3
54°	24.6	25.2	25.2	25.2	23.1	21.7	18.9	14.0	10.5	8.4	5.6
55°	17.5	18.2	17.5	17.5	16.8	15.4	14.0	10.5	8.4	7.0	4.2
57.5°	7.7	7.7	7.7	8.4	7.7	7.7	7.0	6.3	5.6	4.2	2.8
60°	3.5	3.5	3.5	3.5	4.2	4.2	4.2	4.2	3.5	2.8	2.8
61°	2.8	2.8	2.8	2.8	2.8	3.5	3.5	3.5	2.8	2.8	2.1
62°	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1
63°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.1	2.1	2.1
64°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	2.1	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1
66°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
77.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	2.1
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	2.1
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	2.1
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	2.1
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	130.2	129.5	126.0	122.6	123.3	121.8	120.4	118.3	116.9	113.5	113.5
5°	148.4	144.9	137.2	130.2	129.5	126.7	122.6	118.3	114.8	109.9	108.5
7.5°	169.4	159.6	147.0	135.8	133.7	129.5	121.8	116.2	109.9	103.7	101.5
10°	199.5	176.4	154.7	137.9	133.7	127.4	117.6	109.9	103.0	95.2	92.4
12.5°	306.6	217.7	164.5	137.9	130.2	122.6	110.6	101.5	93.2	84.7	81.9
15°	511.0	348.0	208.6	137.9	123.9	114.8	100.1	91.0	81.9	74.2	71.4
17.5°	705.7	495.0	290.6	155.4	124.6	105.7	87.5	77.7	70.0	62.3	60.2
20°	818.4	576.9	344.4	173.0	123.3	95.2	74.9	64.4	56.7	51.1	49.0
22.5°	833.1	580.3	332.5	154.7	103.7	79.1	62.3	52.5	46.2	41.3	39.9
25°	793.9	512.4	266.0	109.9	77.0	64.4	49.0	42.0	37.1	32.9	32.2
26°	763.8	471.8	231.8	91.0	67.9	57.4	44.2	37.8	33.6	30.1	29.4
27°	721.1	428.5	198.1	75.6	60.2	51.8	39.2	34.4	30.8	27.3	27.3
28°	672.8	381.5	159.6	63.8	54.0	46.2	35.7	30.8	27.3	25.2	25.2
29°	614.7	313.6	116.9	55.3	47.6	40.6	31.5	27.3	24.6	23.1	23.1
30°	528.6	227.5	80.5	48.3	41.3	35.7	28.0	24.6	22.4	21.0	21.0
31°	413.0	140.0	63.0	42.0	36.4	31.5	25.2	21.7	20.3	18.9	19.6
32°	281.5	87.5	54.0	36.4	32.2	27.3	22.4	19.6	18.2	17.5	17.5
33°	160.3	72.8	46.9	31.5	27.3	23.8	19.6	17.5	16.8	16.1	16.1
34°	106.4	62.3	40.6	26.6	22.4	20.3	16.8	15.4	14.8	14.8	14.8
35°	89.6	54.0	32.9	22.4	19.6	17.5	14.8	14.0	13.3	13.3	14.0
36°	75.6	44.8	26.6	18.9	16.8	15.4	13.3	12.6	11.9	11.9	12.6
37°	63.8	35.7	22.4	16.1	14.0	13.3	11.9	11.2	11.2	11.2	11.9
38°	51.8	28.7	18.9	14.0	12.6	11.2	10.5	9.8	9.8	10.5	11.2
39°	40.6	23.1	15.4	11.9	10.5	9.8	9.1	9.1	9.1	9.1	9.8
40°	32.2	19.6	13.3	10.5	9.1	9.1	8.4	7.7	8.4	8.4	9.8
42.5°	20.3	14.0	9.8	7.7	7.0	7.0	6.3	6.3	6.3	7.0	7.7
45°	14.8	11.2	7.7	6.3	5.6	5.0	5.0	5.0	5.6	6.3	7.0
47.5°	11.2	7.7	5.6	4.2	3.5	3.5	3.5	3.5	4.2	5.0	5.6
50°	7.7	5.0	3.5	2.8	2.8	2.8	2.8	2.8	3.5	4.2	5.0
51°	6.3	4.2	3.5	2.8	2.8	2.1	2.1	2.8	3.5	3.5	4.2
52°	5.0	3.5	2.8	2.1	2.1	2.1	2.1	2.8	2.8	3.5	4.2
53°	4.2	3.5	2.8	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.2
54°	3.5	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.2
55°	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5
57.5°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5
61°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5
62°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.5
63°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5
64°	2.1	2.1	2.1	2.1	2.8	2.8	2.1	2.1	2.8	2.8	3.5
65°	2.1	2.1	2.8	2.8	2.8	2.8	2.1	2.1	2.8	2.8	3.5
66°	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.8	2.8	3.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.8	2.8	2.8
75°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.8	2.8
80°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.8	2.8
82.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.8
85°	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.8	2.8	2.8	2.8	2.1	2.1	2.1	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

TEST NUMBER: P1219501

CATALOG NUMBER: LDSQA4A15940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	112.0	109.9	108.5	107.8	108.5	107.1	105.0	105.7	105.0	104.3	104.3
5°	106.4	103.0	101.5	100.8	100.8	100.1	97.3	98.0	97.3	96.6	96.6
7.5°	98.7	95.9	93.9	93.2	93.2	92.4	89.6	91.0	89.6	88.9	89.6
10°	89.6	86.8	86.1	84.7	84.7	84.1	81.9	82.6	81.9	81.9	81.9
12.5°	79.8	77.0	76.3	75.6	76.3	75.6	73.6	74.9	74.2	74.2	74.9
15°	69.3	67.2	67.2	66.5	67.2	66.5	65.8	66.5	66.5	66.5	67.9
17.5°	58.8	57.4	57.4	56.7	57.4	57.4	56.7	58.8	58.8	60.2	61.6
20°	48.3	46.9	47.6	47.6	49.0	49.0	49.0	51.1	51.8	53.2	55.3
22.5°	39.9	39.2	39.9	39.9	41.3	42.0	42.0	44.2	46.2	47.6	49.7
25°	32.2	32.2	33.6	33.6	34.4	35.7	36.4	39.2	40.6	42.0	44.2
26°	30.1	30.1	30.8	31.5	32.2	33.6	34.4	37.1	38.5	39.9	42.0
27°	27.3	27.3	28.7	29.4	30.1	31.5	32.9	35.0	36.4	38.5	39.9
28°	25.2	25.2	26.6	27.3	28.0	30.1	30.8	32.9	34.4	36.4	38.5
29°	23.1	23.8	25.2	25.2	26.6	28.0	28.7	31.5	32.9	34.4	36.4
30°	21.7	22.4	23.1	23.8	24.6	25.9	27.3	29.4	30.8	32.2	34.4
31°	20.3	21.0	21.7	22.4	23.1	24.6	25.9	28.0	29.4	30.8	32.9
32°	18.9	18.9	20.3	21.0	21.7	23.1	24.6	26.6	28.0	29.4	31.5
33°	17.5	18.2	18.9	19.6	20.3	21.7	23.1	24.6	25.9	28.0	30.1
34°	16.1	16.8	18.2	18.9	19.6	21.0	21.7	23.1	24.6	26.6	28.0
35°	14.8	16.1	16.8	17.5	18.2	19.6	20.3	22.4	23.1	25.2	26.6
36°	14.0	14.8	16.1	16.8	17.5	18.2	18.9	21.0	22.4	23.8	25.2
37°	12.6	14.0	14.8	15.4	16.1	17.5	18.2	19.6	21.0	22.4	23.8
38°	11.9	12.6	14.0	14.8	15.4	16.1	16.8	18.9	19.6	21.0	22.4
39°	11.2	11.9	13.3	14.0	14.0	15.4	16.1	17.5	18.2	19.6	21.7
40°	10.5	11.2	12.6	12.6	13.3	14.8	15.4	16.8	17.5	18.9	20.3
42.5°	9.1	9.8	10.5	11.2	11.9	12.6	13.3	14.8	15.4	16.1	17.5
45°	7.7	8.4	9.8	9.8	10.5	11.2	11.9	12.6	13.3	14.8	15.4
47.5°	6.3	7.7	8.4	9.1	9.1	9.8	10.5	11.2	11.9	12.6	13.3
50°	5.6	6.3	7.0	7.7	7.7	8.4	9.1	9.8	9.8	10.5	11.9
51°	5.6	6.3	7.0	7.0	7.7	8.4	8.4	9.1	9.8	9.8	10.5
52°	5.0	5.6	6.3	7.0	7.0	7.7	8.4	8.4	9.1	9.8	10.5
53°	5.0	5.6	6.3	6.3	7.0	7.7	7.7	8.4	8.4	9.1	9.8
54°	5.0	5.6	6.3	6.3	7.0	7.0	7.7	7.7	8.4	8.4	9.1
55°	4.2	5.0	5.6	6.3	6.3	7.0	7.0	7.7	7.7	8.4	8.4
57.5°	4.2	5.0	5.6	5.6	5.6	6.3	6.3	7.0	7.0	7.0	7.7
60°	4.2	5.0	5.0	5.6	5.6	6.3	6.3	6.3	6.3	7.0	7.0
61°	4.2	4.2	5.0	5.6	5.6	5.6	6.3	6.3	6.3	6.3	7.0
62°	4.2	4.2	5.0	5.0	5.6	5.6	5.6	6.3	6.3	6.3	6.3
63°	3.5	4.2	5.0	5.0	5.6	5.6	5.6	5.6	5.6	6.3	6.3
64°	3.5	4.2	5.0	5.0	5.0	5.6	5.6	5.6	5.6	5.6	5.6
65°	3.5	4.2	5.0	5.0	5.0	5.6	5.6	5.6	5.6	5.6	5.6
66°	3.5	4.2	5.0	5.0	5.0	5.6	5.6	5.6	5.6	5.6	5.6

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219501

CATALOG NUMBER: LDSQA4A15940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.5	3.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.5	3.5	3.5	4.2	4.2	4.2	4.2	4.2	4.2	3.5	3.5
77.5°	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.8
80°	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.1	1.4
87.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1	1.4	1.4
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: P1219501

CATALOG NUMBER: LDSQA4A15940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	105.0	103.0	102.2	102.2	103.0	102.2	103.0	102.2
5°	96.6	94.5	94.5	93.9	94.5	93.9	94.5	93.9
7.5°	89.6	87.5	87.5	87.5	87.5	87.5	88.2	87.5
10°	82.6	80.5	80.5	79.8	80.5	80.5	81.2	80.5
12.5°	75.6	74.2	74.2	73.6	74.9	74.2	75.6	74.9
15°	69.3	67.9	67.9	68.6	69.3	69.3	70.0	70.0
17.5°	63.0	63.0	63.0	63.8	64.4	65.1	65.8	65.1
20°	57.4	57.4	58.1	58.8	59.5	60.2	60.9	60.9
22.5°	51.8	51.8	52.5	54.0	55.3	56.0	56.7	56.7
25°	46.2	46.9	47.6	48.3	50.4	51.1	51.8	51.8
26°	44.2	44.8	46.2	46.9	48.3	49.0	50.4	50.4
27°	42.7	43.4	44.2	44.8	46.9	47.6	49.0	48.3
28°	40.6	41.3	42.0	43.4	44.8	46.2	46.9	46.9
29°	38.5	39.9	40.6	41.3	43.4	44.2	44.8	44.8
30°	37.1	37.8	38.5	39.9	41.3	42.7	43.4	43.4
31°	35.0	36.4	37.1	37.8	39.9	40.6	42.0	42.0
32°	33.6	34.4	35.0	36.4	37.8	39.2	39.9	39.9
33°	31.5	32.9	33.6	34.4	36.4	37.8	38.5	37.8
34°	30.1	31.5	31.5	32.9	34.4	35.7	36.4	36.4
35°	28.7	29.4	30.1	31.5	32.9	34.4	35.0	35.0
36°	27.3	28.0	28.7	30.1	31.5	32.9	33.6	33.6
37°	25.9	26.6	27.3	28.0	30.1	31.5	32.2	32.2
38°	24.6	25.2	25.9	27.3	28.7	29.4	30.8	30.8
39°	23.1	23.8	24.6	25.9	27.3	28.0	29.4	28.7
40°	21.7	23.1	23.1	24.6	25.9	26.6	28.0	27.3
42.5°	18.9	19.6	20.3	21.0	22.4	23.8	24.6	24.6
45°	16.8	17.5	18.2	18.9	19.6	20.3	21.7	21.0
47.5°	14.0	14.8	15.4	16.1	16.8	17.5	18.2	18.2
50°	12.6	12.6	13.3	13.3	14.8	15.4	16.1	16.1
51°	11.2	11.9	12.6	12.6	14.0	14.0	14.8	14.8
52°	11.2	11.2	11.9	11.9	12.6	13.3	14.0	14.0
53°	10.5	10.5	11.2	11.2	11.9	12.6	13.3	13.3
54°	9.8	9.8	10.5	10.5	11.2	11.9	12.6	12.6
55°	9.1	9.1	9.8	9.8	10.5	11.2	11.9	11.9
57.5°	7.7	8.4	8.4	9.1	9.1	9.8	9.8	10.5
60°	7.0	7.7	7.7	7.7	8.4	8.4	8.4	8.4
61°	7.0	7.0	7.0	7.7	7.7	7.0	7.7	7.0
62°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
63°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
64°	6.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.0
66°	5.6	5.6	5.0	5.6	5.0	5.0	5.0	5.0



TEST NUMBER: P1219501

CATALOG NUMBER: LDSQA4A15940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8
75°	3.5	3.5	3.5	2.8	2.8	2.8	2.8	2.1
77.5°	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4
82.5°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4	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

Scaled Data Report





67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.8	2.8	3.5
70°	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.1	2.8	2.8	2.8

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67.5°	3.5	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	3.5	4.2	4.2	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0

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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

Scaled Data Report



67.5°	5.0	5.0	5.0	5.0	5.0	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	3.5	3.5	3.5

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)