

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: P1219489

Luminaire Tested: **LDSQA4A15935D010TE 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: P1219489
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: LDSQA4A15935D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

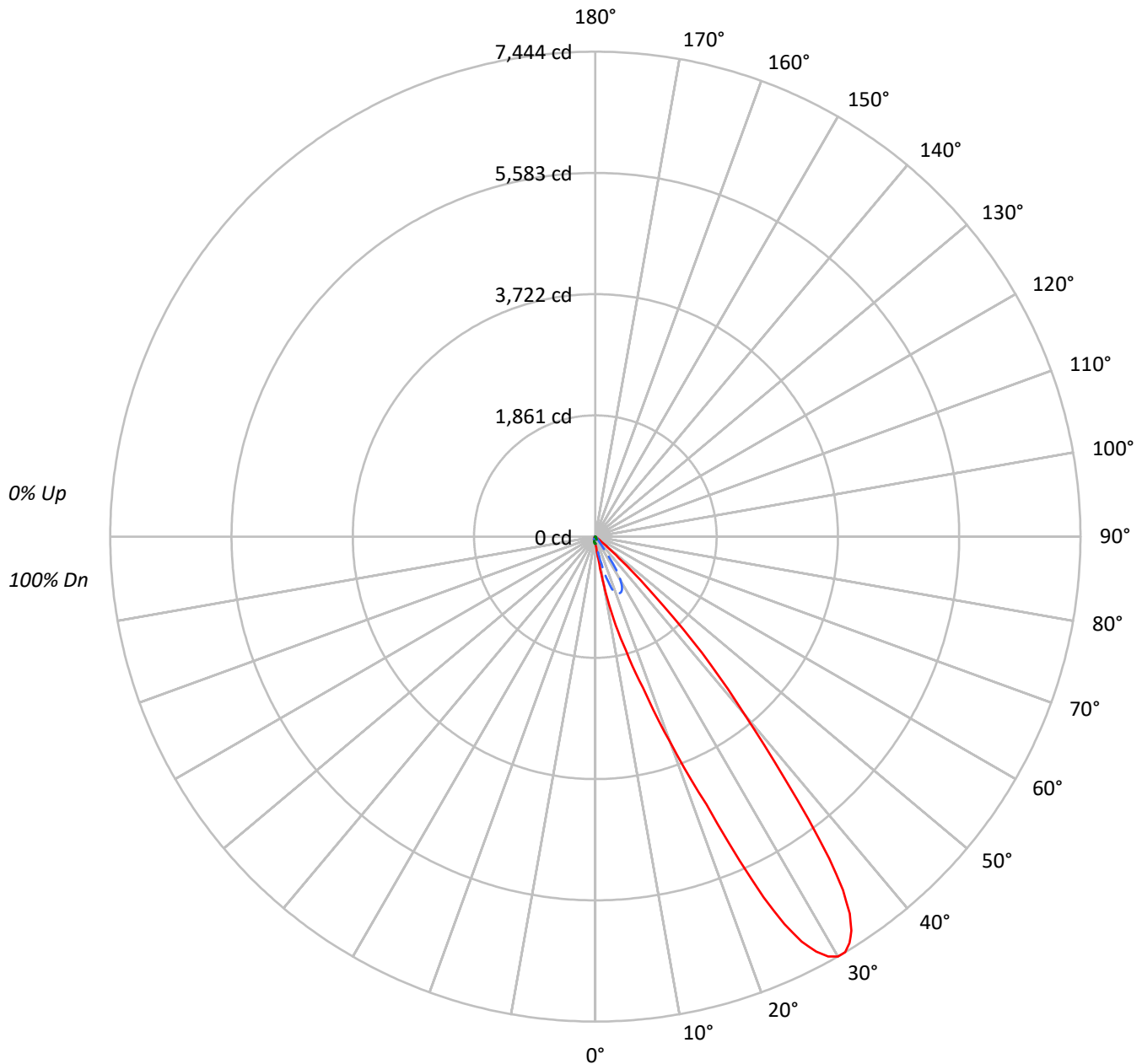
Lumens per Lamp: N/A
Luminaire Lumens: 1168.6 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	10685	10685	10685
5°	16960	10152	8772
10°	74328	9001	7466
15°	181610	7291	6499
20°	346494	5423	5948
25°	652992	3880	5195
30°	832601	2763	4575
35°	783221	1691	3915
40°	449306	1151	3364
45°	173445	795	2850
50°	23074	588	2336
55°	3513	557	1976
60°	988	504	1628
65°	596	596	1169
70°	368	736	935
75°	487	749	749
80°	0	1116	725
85°	0	2223	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	1.2
10°-20°	125.2	10.7
20°-30°	399.4	34.2
30°-40°	462.8	39.6
40°-50°	150.5	12.9
50°-60°	9.5	0.8
60°-70°	3.5	0.3
70°-80°	2.5	0.2
80°-90°	1.5	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°	538.3	46.1
0°-40°	1001.1	85.7
0°-60°	1161.1	99.4
0°-90°	1168.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	174	146	104	92	90	34
15°	1811	652	73	62	65	574
25°	6109	938	36	38	49	2745
35°	6623	224	14	22	33	3810
45°	1266	27	6	13	21	1130
55°	21	5	3	7	12	32
65°	3	2	3	5	5	2
75°	1	2	2	3	2	1
85°	0	1	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°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	134.2	135.5	135.5	133.6	133.6	131.7	130.4	129.7	129.1	127.1	126.5
5°	174.4	175.7	176.4	171.3	169.3	165.4	162.2	158.9	155.0	150.5	145.9
7.5°	336.6	309.4	313.9	275.0	267.9	251.0	237.4	216.0	200.4	184.8	172.6
10°	755.6	729.6	725.1	668.1	611.6	569.4	524.0	445.6	374.2	298.4	236.7
12.5°	1294.5	1256.3	1234.9	1122.7	1056.5	994.3	924.9	802.3	665.5	548.7	426.8
15°	1810.8	1807.6	1731.1	1605.9	1480.0	1403.5	1314.0	1162.3	1000.1	822.4	652.5
17.5°	2434.1	2459.5	2328.4	2083.9	1884.8	1760.2	1637.1	1399.7	1197.3	1024.7	838.6
20°	3361.0	3293.5	3064.5	2681.9	2345.3	2157.8	1966.5	1616.9	1327.0	1118.1	929.4
22.5°	4450.0	4398.1	3970.0	3331.7	2797.9	2534.7	2271.4	1816.6	1439.2	1168.7	946.9
25°	6109.0	5895.6	5064.7	4029.0	3213.0	2840.1	2502.2	1946.4	1489.8	1175.2	938.5
26°	6618.2	6468.3	5509.7	4305.9	3340.9	2924.5	2559.9	1973.0	1493.7	1169.4	922.3
27°	6979.4	6865.3	5880.0	4509.5	3433.6	2982.9	2597.6	1984.1	1484.6	1157.1	900.2
28°	7217.4	7125.9	6159.6	4656.9	3490.0	3014.0	2615.8	1981.4	1466.5	1135.6	869.1
29°	7368.6	7280.4	6323.0	4740.5	3510.1	3019.1	2611.2	1962.0	1437.3	1103.8	824.4
30°	7443.1	7347.1	6378.2	4749.5	3488.1	2989.3	2576.8	1919.1	1397.1	1065.6	775.1
31°	7443.8	7337.4	6332.1	4679.5	3422.5	2925.7	2515.9	1847.8	1344.5	1020.2	708.9
32°	7357.5	7247.9	6178.4	4537.5	3320.1	2846.0	2434.1	1775.2	1289.4	969.6	613.6
33°	7212.8	7083.2	5911.8	4340.4	3189.1	2737.1	2336.2	1694.1	1234.2	888.5	488.4
34°	6979.4	6802.3	5539.5	4101.0	3030.8	2609.9	2224.0	1606.6	1178.5	775.7	349.0
35°	6622.7	6372.9	5108.9	3836.3	2861.5	2472.4	2097.5	1515.1	1110.4	636.3	223.7
36°	6106.4	5784.1	4660.7	3562.6	2687.1	2327.8	1969.1	1426.9	1002.7	482.5	146.6
37°	5432.5	5148.4	4232.0	3287.0	2506.1	2173.4	1851.7	1338.0	870.4	337.3	119.3
38°	4740.5	4531.0	3813.0	3013.3	2318.7	2006.7	1709.0	1245.3	725.8	221.9	99.9
39°	4116.5	3976.4	3403.1	2742.2	2125.4	1860.8	1566.3	1127.2	571.4	157.6	84.3
40°	3552.9	3456.3	3006.8	2465.9	1932.1	1684.4	1432.0	982.6	411.8	125.8	70.7
42.5°	2423.1	2375.1	2103.4	1774.5	1429.5	1287.4	1127.9	590.8	163.4	79.8	42.8
45°	1266.0	1245.3	1146.7	1039.0	932.0	895.1	725.1	265.2	92.1	46.7	27.2
47.5°	492.9	494.2	408.6	349.0	331.5	308.1	233.4	95.3	51.9	28.5	18.1
50°	153.1	164.7	151.8	143.4	109.6	91.5	75.9	47.3	27.9	17.5	11.7
51°	94.0	99.9	94.0	94.0	77.2	67.4	57.7	36.3	22.1	14.3	10.4
52°	61.0	64.3	61.0	57.1	53.2	48.0	41.5	27.2	17.5	11.7	8.4
53°	41.5	43.5	41.5	38.9	35.6	33.1	29.2	20.1	14.3	9.7	7.1
54°	29.2	30.5	29.2	27.2	25.3	23.4	21.4	15.5	11.7	8.4	6.5
55°	20.8	22.1	21.4	20.1	18.1	17.5	16.2	12.3	9.7	7.1	5.1
57.5°	9.7	10.4	10.4	9.7	9.7	9.1	8.4	7.8	5.8	4.6	3.9
60°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.9	3.3	3.3
61°	3.9	3.9	3.9	3.9	3.9	3.9	4.6	3.9	3.3	3.3	2.6
62°	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.3	3.3	2.6	2.6
63°	2.6	2.6	2.6	2.6	3.3	3.3	3.3	3.3	2.6	2.6	2.6
64°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.0
65°	2.6	2.6	2.0	2.0	2.0	2.6	2.0	2.6	2.0	2.0	2.0
66°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
77.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.3	1.3
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°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	122.6	119.3	118.0	116.7	116.1	114.8	112.9	110.9	110.3	107.7	105.0
5°	138.1	132.3	127.8	123.3	122.0	118.7	114.8	110.3	108.3	104.4	101.2
7.5°	156.3	144.6	136.2	128.4	125.1	121.3	114.1	108.3	104.4	98.6	94.6
10°	186.8	159.6	143.4	129.7	124.5	119.3	110.3	102.5	97.3	91.5	86.9
12.5°	295.7	206.9	155.6	130.4	123.3	115.4	104.4	95.3	88.9	82.4	78.5
15°	466.3	315.2	201.7	136.8	120.7	109.0	96.0	85.6	79.1	72.7	68.7
17.5°	622.6	424.2	263.3	152.5	122.0	103.2	85.6	75.2	68.1	62.3	59.7
20°	697.9	475.4	293.1	155.6	114.1	92.1	74.0	64.3	57.7	52.6	49.9
22.5°	705.0	472.1	275.0	133.0	94.6	77.8	62.3	53.2	48.0	44.1	41.5
25°	671.3	419.0	220.5	97.9	74.0	64.8	51.3	43.5	39.6	36.3	34.4
26°	645.4	388.5	193.9	84.9	67.4	59.0	46.7	40.2	36.3	33.8	31.8
27°	609.6	352.8	162.8	73.3	62.3	53.2	42.8	36.9	33.8	31.8	29.8
28°	566.9	317.8	134.9	64.8	56.4	48.0	39.6	33.8	31.1	29.2	27.2
29°	520.8	271.8	105.7	58.4	50.6	43.5	35.6	30.5	27.9	26.6	25.3
30°	456.0	211.5	81.1	52.6	45.4	38.9	32.5	27.9	25.9	24.7	23.4
31°	364.5	145.2	65.5	46.7	40.9	35.0	29.2	25.3	23.4	22.1	21.4
32°	261.4	89.5	57.1	41.5	36.3	31.8	25.3	22.7	20.8	20.1	19.5
33°	160.9	73.3	50.6	36.9	31.8	27.9	22.7	20.1	18.8	18.1	17.5
34°	105.7	63.6	44.7	31.8	27.9	24.0	19.5	17.5	16.8	16.2	16.2
35°	89.5	56.4	38.9	27.2	23.4	20.8	16.8	15.5	14.9	14.3	14.9
36°	77.2	49.3	32.5	23.4	20.1	17.5	14.9	13.7	13.0	13.0	13.7
37°	68.1	41.5	27.2	19.5	17.5	15.5	13.0	12.3	11.7	11.7	12.3
38°	57.7	33.8	22.7	16.8	14.9	13.0	11.7	11.0	11.0	11.0	11.7
39°	47.3	28.5	19.5	14.3	13.0	11.7	10.4	9.7	9.7	10.4	10.4
40°	38.9	24.0	16.2	12.3	11.0	10.4	9.1	9.1	9.1	9.1	9.7
42.5°	25.3	16.2	11.7	9.1	8.4	7.8	7.1	7.1	7.1	7.1	7.8
45°	16.8	11.7	9.1	7.1	6.5	5.8	5.8	5.1	5.8	5.8	6.5
47.5°	11.7	8.4	6.5	5.1	4.6	3.9	3.9	3.9	4.6	5.1	5.1
50°	8.4	5.8	4.6	3.3	3.3	3.3	3.3	3.3	3.9	3.9	4.6
51°	7.1	5.1	3.9	3.3	3.3	2.6	2.6	2.6	3.3	3.9	4.6
52°	5.8	4.6	3.3	2.6	2.6	2.6	2.6	2.6	3.3	3.3	3.9
53°	5.1	3.9	3.3	2.6	2.6	2.6	2.6	2.6	3.3	3.3	3.9
54°	4.6	3.3	2.6	2.6	2.6	2.0	2.0	2.6	2.6	3.3	3.9
55°	3.9	3.3	2.6	2.6	2.0	2.0	2.0	2.0	2.6	3.3	3.3
57.5°	3.3	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3
60°	2.6	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3
61°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3
62°	2.6	2.0	2.6	2.6	2.6	2.0	2.0	2.0	2.6	2.6	3.3
63°	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.6	2.6	2.6
64°	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6	3.3
65°	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6	3.3
66°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.6	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6
75°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.6
77.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.6
80°	2.0	2.0	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	103.8	103.8	103.2	101.9	103.2	101.9	100.5	99.9	99.2	98.6	97.3
5°	98.6	97.9	96.6	96.0	96.0	94.6	93.4	92.1	91.5	90.8	89.5
7.5°	92.1	91.5	89.5	88.9	88.9	87.5	85.6	84.9	84.3	83.7	82.4
10°	84.3	83.7	81.7	81.1	81.1	79.8	78.5	77.2	76.5	75.9	74.5
12.5°	75.2	74.5	73.3	72.7	72.7	71.4	70.1	69.4	69.4	68.7	68.1
15°	66.1	65.5	64.3	64.3	64.3	62.9	62.3	61.6	62.3	62.3	61.6
17.5°	57.1	56.4	55.1	55.1	55.1	55.1	54.4	54.4	55.1	55.7	55.7
20°	48.0	47.3	47.3	46.7	47.3	48.0	47.3	48.0	49.3	49.9	50.6
22.5°	39.6	39.6	39.6	39.6	40.2	40.9	40.9	42.2	43.5	44.1	45.4
25°	33.1	33.1	33.8	33.8	34.4	35.0	35.6	36.3	38.3	39.6	40.2
26°	30.5	31.1	31.1	31.8	32.5	33.1	33.8	34.4	36.3	37.6	38.3
27°	28.5	28.5	29.2	29.8	30.5	31.1	31.8	33.1	34.4	35.6	36.9
28°	26.6	26.6	27.2	27.9	28.5	29.2	29.8	31.1	32.5	34.4	35.0
29°	24.7	25.3	25.3	25.9	26.6	27.2	28.5	29.2	31.1	32.5	33.8
30°	22.7	23.4	24.0	24.0	24.7	25.3	26.6	27.9	29.2	31.1	31.8
31°	21.4	22.1	22.1	22.7	23.4	24.0	25.3	26.6	27.9	29.2	30.5
32°	19.5	20.8	20.8	20.8	21.4	22.7	24.0	24.7	26.6	27.9	28.5
33°	18.1	18.8	19.5	19.5	20.1	21.4	22.7	23.4	25.3	26.6	27.2
34°	16.8	17.5	18.1	18.1	18.8	20.1	21.4	22.1	24.0	24.7	25.9
35°	15.5	16.2	16.8	16.8	17.5	18.8	20.1	20.8	22.1	23.4	24.7
36°	14.3	14.9	15.5	16.2	16.8	18.1	18.8	20.1	20.8	22.1	23.4
37°	13.0	13.7	14.9	14.9	16.2	16.8	18.1	18.8	20.1	20.8	22.1
38°	11.7	13.0	13.7	14.3	14.9	16.2	16.8	17.5	18.8	20.1	20.8
39°	11.0	12.3	13.0	13.7	14.3	14.9	15.5	16.8	17.5	18.8	19.5
40°	10.4	11.0	12.3	12.3	13.7	14.3	14.9	15.5	16.8	17.5	18.8
42.5°	8.4	9.7	10.4	11.0	11.7	12.3	13.0	13.7	14.3	15.5	16.2
45°	7.1	8.4	9.1	9.1	9.7	10.4	11.0	11.7	13.0	13.7	14.3
47.5°	5.8	7.1	7.8	8.4	8.4	9.1	9.7	10.4	11.0	11.7	12.3
50°	5.1	5.8	6.5	7.1	7.8	7.8	8.4	9.1	9.7	10.4	10.4
51°	5.1	5.8	6.5	6.5	7.1	7.8	8.4	8.4	9.1	9.7	9.7
52°	4.6	5.1	5.8	6.5	7.1	7.1	7.8	8.4	8.4	9.1	9.7
53°	4.6	5.1	5.8	5.8	6.5	7.1	7.1	7.8	8.4	8.4	9.1
54°	3.9	5.1	5.8	5.8	6.5	6.5	7.1	7.8	7.8	7.8	8.4
55°	3.9	4.6	5.1	5.8	5.8	6.5	6.5	7.1	7.1	7.8	7.8
57.5°	3.9	4.6	5.1	5.1	5.8	5.8	6.5	6.5	6.5	6.5	7.1
60°	3.3	3.9	4.6	5.1	5.1	5.8	5.8	5.8	5.8	5.8	6.5
61°	3.3	3.9	4.6	4.6	5.1	5.1	5.8	5.8	5.8	5.8	5.8
62°	3.3	3.9	4.6	4.6	5.1	5.1	5.1	5.8	5.8	5.8	5.8
63°	3.3	3.9	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1	5.8
64°	3.3	3.9	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	3.3	3.9	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1
66°	3.3	3.9	4.6	4.6	4.6	4.6	5.1	5.1	5.1	5.1	4.6

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219489

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	2.6	3.3	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.3
75°	2.6	3.3	3.3	3.3	3.9	3.9	3.9	3.3	3.3	3.3	3.3
77.5°	2.6	2.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6
80°	2.6	2.6	2.6	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
82.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0
85°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	1.3
87.5°	2.0	2.0	2.0	2.6	2.6	2.6	2.0	2.0	1.3	1.3	1.3
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: P1219489

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	98.6	99.2	98.6	98.6	97.3	97.9	96.6	98.6
5°	90.2	90.8	90.2	90.2	88.9	88.9	88.2	90.2
7.5°	83.1	83.7	82.4	82.4	81.1	81.7	81.1	82.4
10°	75.9	75.9	75.9	75.2	74.5	75.2	74.5	75.9
12.5°	68.7	69.4	69.4	69.4	68.7	68.7	68.1	70.1
15°	62.9	63.6	64.3	64.3	63.6	64.3	63.6	64.8
17.5°	57.7	59.0	59.0	59.7	59.7	60.3	60.3	61.6
20°	52.6	54.4	54.4	55.1	55.1	56.4	56.4	57.7
22.5°	47.3	49.3	49.9	49.9	50.6	51.9	51.9	53.2
25°	42.8	44.7	45.4	45.4	46.0	47.3	47.3	48.6
26°	40.9	42.8	43.5	44.1	44.7	46.0	46.0	47.3
27°	38.9	40.9	41.5	42.2	42.8	44.1	44.1	45.4
28°	37.6	39.6	40.2	40.9	41.5	42.8	42.8	43.5
29°	35.6	37.6	38.3	38.9	39.6	40.9	40.9	42.2
30°	34.4	35.6	36.3	36.9	37.6	39.6	39.6	40.9
31°	32.5	34.4	35.0	35.6	36.3	37.6	37.6	39.6
32°	31.1	32.5	33.1	33.8	35.0	35.6	36.3	37.6
33°	29.2	31.1	31.8	32.5	33.1	34.4	35.0	36.3
34°	27.9	29.2	30.5	31.1	31.8	33.1	33.8	35.0
35°	26.6	27.9	28.5	29.2	30.5	31.8	31.8	33.1
36°	25.3	26.6	27.2	27.9	29.2	30.5	30.5	31.8
37°	24.0	25.3	25.9	26.6	27.9	29.2	29.2	30.5
38°	22.7	24.0	24.7	25.3	26.6	27.9	28.5	29.8
39°	21.4	23.4	24.0	24.7	25.3	26.6	27.2	27.9
40°	20.8	22.1	22.7	23.4	24.0	25.3	25.9	26.6
42.5°	17.5	19.5	20.1	20.8	21.4	22.1	22.7	23.4
45°	15.5	16.8	16.8	17.5	18.1	19.5	19.5	20.8
47.5°	13.7	14.3	14.9	14.9	15.5	16.8	16.8	17.5
50°	11.7	12.3	13.0	13.0	13.7	14.3	14.9	15.5
51°	11.0	11.7	11.7	12.3	13.0	13.7	14.3	14.9
52°	10.4	11.0	11.0	11.7	12.3	13.0	13.0	13.7
53°	9.7	10.4	10.4	11.0	11.0	12.3	12.3	13.0
54°	9.1	9.7	9.7	10.4	10.4	11.7	11.7	12.3
55°	8.4	9.1	9.7	9.7	9.7	10.4	11.0	11.7
57.5°	7.8	8.4	8.4	8.4	9.1	9.1	9.7	9.7
60°	6.5	7.1	7.1	7.1	7.8	7.8	7.8	8.4
61°	6.5	6.5	7.1	7.1	6.5	6.5	6.5	7.1
62°	5.8	6.5	6.5	5.8	5.8	5.8	5.8	6.5
63°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
64°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	5.1	5.1	5.1	5.1	5.1	5.1	4.6	5.1
66°	4.6	5.1	5.1	4.6	4.6	4.6	4.6	4.6

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219489

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6
75°	3.3	2.6	2.6	2.6	2.6	2.6	2.6	2.0
77.5°	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	1.3	1.3
82.5°	2.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	0.7	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

Classified

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



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Peachtree City, GA 30269

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— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report



67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0

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67.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.6	2.6
70°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	3.3	3.9	3.9	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	3.3	3.3	3.9	3.9	3.9	4.6	4.6	3.9	3.9	3.9	3.9

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67.5°	4.6	4.6	4.6	4.6	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.3	3.3	3.3	3.3

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Peachtree City, GA 30269

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(END OF REPORT)