

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: P1212178

Luminaire Tested: **LDSQA4A20927D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212178
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: LDSQA4A20927D010TE 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

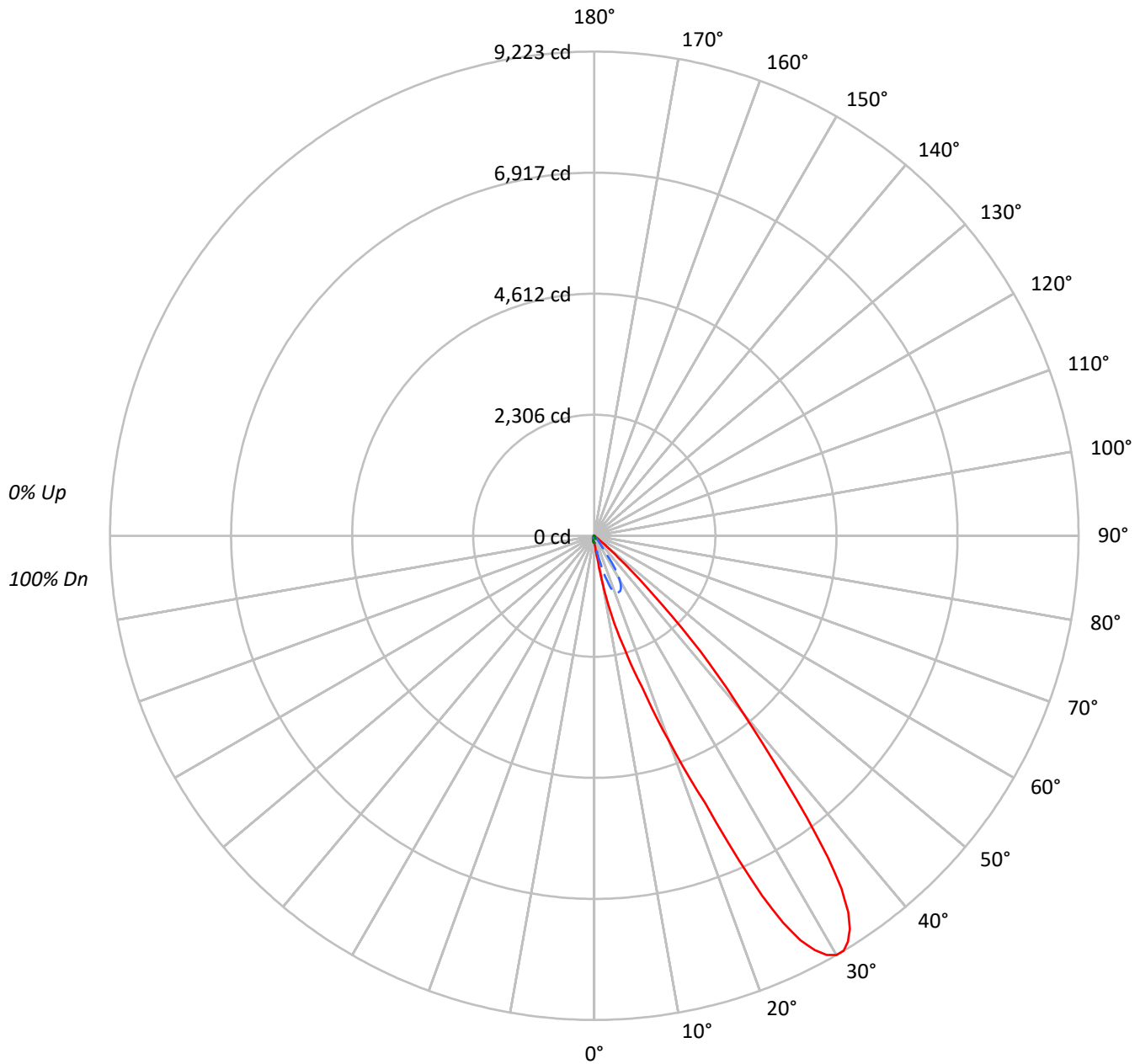
Lumens per Lamp: N/A
Luminaire Lumens: 1447.8 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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	58	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°	13233	13233	13233
5°	21015	12584	10862
10°	92094	11145	9247
15°	225017	9016	8064
20°	429299	6711	7371
25°	809031	4810	6445
30°	1031570	3423	5660
35°	970384	2093	4849
40°	556685	1416	4173
45°	214902	1000	3521
50°	28575	723	2894
55°	4341	692	2449
60°	1259	620	2015
65°	734	734	1490
70°	453	906	1161
75°	599	898	898
80°	0	1339	893
85°	0	2668	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	1.2
10°-20°	155.2	10.7
20°-30°	494.8	34.2
30°-40°	573.4	39.6
40°-50°	186.4	12.9
50°-60°	11.8	0.8
60°-70°	4.3	0.3
70°-80°	3.1	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°	667.0	46.1
0°-40°	1240.4	85.7
0°-60°	1438.6	99.4
0°-90°	1447.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	137	137	137	137	137	
5°	216	181	129	113	112	42
15°	2244	808	90	77	80	711
25°	7569	1163	45	47	60	3401
35°	8205	277	18	27	41	4721
45°	1569	34	7	16	26	1401
55°	26	6	4	9	14	40
65°	3	2	3	6	6	3
75°	2	2	2	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°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6
2.5°	166.3	168.0	168.0	165.6	165.6	163.2	161.5	160.6	159.9	157.4	156.7
5°	216.1	217.8	218.6	212.2	209.8	204.9	201.0	196.9	192.1	186.5	180.9
7.5°	417.0	383.4	389.0	340.7	331.8	311.0	294.1	267.6	248.3	229.0	213.8
10°	936.2	904.1	898.3	827.6	757.8	705.5	649.3	552.0	463.6	369.6	293.3
12.5°	1603.9	1556.6	1530.1	1391.0	1309.0	1231.9	1145.8	994.0	824.5	679.8	528.7
15°	2243.6	2239.5	2144.7	1989.6	1833.8	1739.0	1628.0	1440.0	1239.2	1018.9	808.4
17.5°	3015.8	3047.2	2884.9	2581.9	2335.2	2180.9	2028.2	1734.1	1483.4	1269.6	1039.0
20°	4164.2	4080.6	3797.0	3322.8	2905.8	2673.5	2436.4	2003.4	1644.2	1385.4	1151.5
22.5°	5513.4	5449.1	4918.7	4128.0	3466.6	3140.4	2814.2	2250.8	1783.0	1448.0	1173.2
25°	7568.8	7304.5	6275.1	4991.8	3980.9	3518.9	3100.2	2411.5	1845.8	1456.1	1162.7
26°	8199.7	8014.0	6826.3	5334.9	4139.2	3623.4	3171.7	2444.5	1850.7	1448.8	1142.6
27°	8647.3	8505.8	7285.2	5587.3	4254.2	3695.7	3218.2	2458.2	1839.4	1433.5	1115.4
28°	8942.2	8828.9	7631.5	5769.6	4324.0	3734.2	3240.9	2454.9	1816.9	1407.0	1076.8
29°	9129.4	9020.2	7834.0	5873.3	4349.0	3740.6	3235.2	2430.8	1780.7	1367.7	1021.4
30°	9221.8	9102.9	7902.3	5884.6	4321.6	3703.7	3192.6	2377.8	1730.9	1320.3	960.2
31°	9222.6	9090.9	7845.3	5797.8	4240.5	3625.0	3117.1	2289.4	1665.8	1264.0	878.3
32°	9115.7	8980.0	7654.8	5621.8	4113.5	3526.2	3015.8	2199.4	1597.5	1201.3	760.2
33°	8936.5	8775.8	7324.6	5377.5	3951.2	3391.1	2894.4	2099.0	1529.2	1101.0	605.0
34°	8647.3	8427.8	6863.3	5081.0	3755.1	3233.6	2755.5	1990.5	1460.1	961.0	432.3
35°	8205.3	7895.9	6329.8	4753.1	3545.4	3063.2	2598.7	1877.1	1375.7	788.3	277.3
36°	7565.7	7166.2	5774.5	4414.1	3329.3	2884.0	2439.6	1767.9	1242.3	597.9	181.6
37°	6730.8	6378.7	5243.4	4072.6	3105.0	2692.8	2294.2	1657.8	1078.4	417.8	147.9
38°	5873.3	5613.7	4724.2	3733.4	2872.8	2486.2	2117.4	1542.9	899.2	274.9	123.8
39°	5100.2	4926.7	4216.4	3397.4	2633.3	2305.4	1940.6	1396.6	707.9	195.3	104.4
40°	4402.0	4282.2	3725.4	3055.2	2393.8	2086.9	1774.2	1217.4	510.2	155.9	87.6
42.5°	3002.2	2942.7	2606.0	2198.6	1771.1	1595.0	1397.4	732.1	202.5	98.8	53.0
45°	1568.6	1542.9	1420.7	1287.3	1154.7	1109.0	898.3	328.6	114.1	57.8	33.8
47.5°	610.7	612.3	506.2	432.3	410.6	381.7	289.4	118.2	64.2	35.4	22.5
50°	189.6	204.2	188.0	177.6	135.8	113.3	94.0	58.6	34.6	21.8	14.5
51°	116.5	123.8	116.5	116.5	95.6	83.6	71.5	45.0	27.4	17.7	12.9
52°	75.5	79.5	75.5	70.7	65.9	59.5	51.5	33.8	21.8	14.5	10.4
53°	51.5	53.8	51.5	48.2	44.2	41.0	36.2	25.0	17.7	12.1	8.8
54°	36.2	37.8	36.2	33.8	31.3	28.9	26.6	19.2	14.5	10.4	8.0
55°	25.7	27.4	26.6	25.0	22.5	21.8	20.1	15.3	12.1	8.8	6.5
57.5°	12.1	12.9	12.9	12.1	12.1	11.2	10.4	9.7	7.3	5.6	4.8
60°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	4.8	4.1	4.1
61°	4.8	4.8	4.8	4.8	4.8	4.8	5.6	4.8	4.1	4.1	3.2
62°	4.1	4.1	4.1	4.1	4.1	4.8	4.8	4.1	4.1	3.2	3.2
63°	3.2	3.2	3.2	3.2	4.1	4.1	4.1	4.1	3.2	3.2	3.2
64°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4
65°	3.2	3.2	2.4	2.4	2.4	3.2	2.4	3.2	2.4	2.4	2.4
66°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
77.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.6	1.6
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°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6
2.5°	151.8	147.9	146.2	144.6	143.8	142.2	139.8	137.4	136.6	133.4	130.2
5°	171.2	163.9	158.3	152.6	151.1	147.0	142.2	136.6	134.2	129.4	125.3
7.5°	193.7	179.2	168.8	159.1	155.0	150.2	141.4	134.2	129.4	122.1	117.3
10°	231.4	197.7	177.6	160.6	154.3	147.9	136.6	127.0	120.6	113.3	107.7
12.5°	366.4	256.3	192.8	161.5	152.6	143.0	129.4	118.2	110.2	102.0	97.3
15°	577.8	390.6	249.9	169.5	149.4	135.0	119.0	106.1	98.1	89.9	85.2
17.5°	771.4	525.5	326.2	188.9	151.1	127.8	106.1	93.2	84.3	77.2	73.9
20°	864.6	589.0	363.2	192.8	141.4	114.1	91.6	79.5	71.5	65.1	61.9
22.5°	873.5	585.0	340.7	164.7	117.3	96.4	77.2	65.9	59.5	54.6	51.5
25°	831.7	519.0	273.2	121.4	91.6	80.4	63.4	53.8	49.0	45.0	42.6
26°	799.5	481.3	240.2	105.3	83.6	73.1	57.8	49.8	45.0	41.8	39.4
27°	755.4	437.1	201.7	90.8	77.2	65.9	53.0	45.8	41.8	39.4	37.0
28°	702.3	393.8	167.1	80.4	69.9	59.5	49.0	41.8	38.6	36.2	33.8
29°	645.3	336.6	131.0	72.3	62.7	53.8	44.2	37.8	34.6	33.0	31.3
30°	565.0	262.0	100.5	65.1	56.2	48.2	40.2	34.6	32.2	30.6	28.9
31°	451.6	180.0	81.1	57.8	50.6	43.4	36.2	31.3	28.9	27.4	26.6
32°	323.8	110.9	70.7	51.5	45.0	39.4	31.3	28.1	25.7	25.0	24.2
33°	199.3	90.8	62.7	45.8	39.4	34.6	28.1	25.0	23.3	22.5	21.8
34°	131.0	78.7	55.4	39.4	34.6	29.8	24.2	21.8	20.9	20.1	20.1
35°	110.9	69.9	48.2	33.8	28.9	25.7	20.9	19.2	18.5	17.7	18.5
36°	95.6	61.0	40.2	28.9	25.0	21.8	18.5	16.9	16.2	16.2	16.9
37°	84.3	51.5	33.8	24.2	21.8	19.2	16.2	15.3	14.5	14.5	15.3
38°	71.5	41.8	28.1	20.9	18.5	16.2	14.5	13.6	13.6	13.6	14.5
39°	58.6	35.4	24.2	17.7	16.2	14.5	12.9	12.1	12.1	12.9	12.9
40°	48.2	29.8	20.1	15.3	13.6	12.9	11.2	11.2	11.2	11.2	12.1
42.5°	31.3	20.1	14.5	11.2	10.4	9.7	8.8	8.8	8.8	8.8	9.7
45°	20.9	14.5	11.2	8.8	8.0	7.3	7.3	6.5	7.3	7.3	8.0
47.5°	14.5	10.4	8.0	6.5	5.6	4.8	4.8	4.8	5.6	6.5	6.5
50°	10.4	7.3	5.6	4.1	4.1	4.1	4.1	4.1	4.8	4.8	5.6
51°	8.8	6.5	4.8	4.1	4.1	3.2	3.2	3.2	4.1	4.8	5.6
52°	7.3	5.6	4.1	3.2	3.2	3.2	3.2	3.2	4.1	4.1	4.8
53°	6.5	4.8	4.1	3.2	3.2	3.2	3.2	3.2	4.1	4.1	4.8
54°	5.6	4.1	3.2	3.2	3.2	2.4	2.4	3.2	3.2	4.1	4.8
55°	4.8	4.1	3.2	3.2	2.4	2.4	2.4	2.4	3.2	4.1	4.1
57.5°	4.1	3.2	3.2	2.4	2.4	2.4	2.4	2.4	3.2	3.2	4.1
60°	3.2	3.2	3.2	2.4	2.4	2.4	2.4	2.4	3.2	3.2	4.1
61°	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	4.1
62°	3.2	2.4	3.2	3.2	3.2	2.4	2.4	2.4	3.2	3.2	4.1
63°	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	3.2	3.2	3.2
64°	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2	4.1
65°	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2	4.1
66°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	3.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.4	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2
75°	2.4	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	3.2
80°	2.4	2.4	3.2	3.2	3.2	3.2	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6
2.5°	128.6	128.6	127.8	126.2	127.8	126.2	124.6	123.8	123.0	122.1	120.6
5°	122.1	121.4	119.7	119.0	119.0	117.3	115.8	114.1	113.3	112.6	110.9
7.5°	114.1	113.3	110.9	110.2	110.2	108.5	106.1	105.3	104.4	103.7	102.0
10°	104.4	103.7	101.3	100.5	100.5	98.8	97.3	95.6	94.9	94.0	92.5
12.5°	93.2	92.5	90.8	89.9	89.9	88.4	86.7	86.0	86.0	85.2	84.3
15°	81.9	81.1	79.5	79.5	79.5	77.9	77.2	76.3	77.2	77.2	76.3
17.5°	70.7	69.9	68.3	68.3	68.3	67.5	67.5	67.5	68.3	69.0	69.0
20°	59.5	58.6	58.6	57.8	58.6	59.5	58.6	59.5	61.0	61.9	62.7
22.5°	49.0	49.0	49.0	49.0	49.8	50.6	50.6	52.2	53.8	54.6	56.2
25°	41.0	41.0	41.8	41.8	42.6	43.4	44.2	45.0	47.4	49.0	49.8
26°	37.8	38.6	38.6	39.4	40.2	41.0	41.8	42.6	45.0	46.6	47.4
27°	35.4	35.4	36.2	37.0	37.8	38.6	39.4	41.0	42.6	44.2	45.8
28°	33.0	33.0	33.8	34.6	35.4	36.2	37.0	38.6	40.2	42.6	43.4
29°	30.6	31.3	31.3	32.2	33.0	33.8	35.4	36.2	38.6	40.2	41.8
30°	28.1	28.9	29.8	29.8	30.6	31.3	33.0	34.6	36.2	38.6	39.4
31°	26.6	27.4	27.4	28.1	28.9	29.8	31.3	33.0	34.6	36.2	37.8
32°	24.2	25.7	25.7	25.7	26.6	28.1	29.8	30.6	33.0	34.6	35.4
33°	22.5	23.3	24.2	24.2	25.0	26.6	28.1	28.9	31.3	33.0	33.8
34°	20.9	21.8	22.5	22.5	23.3	25.0	26.6	27.4	29.8	30.6	32.2
35°	19.2	20.1	20.9	20.9	21.8	23.3	25.0	25.7	27.4	28.9	30.6
36°	17.7	18.5	19.2	20.1	20.9	22.5	23.3	25.0	25.7	27.4	28.9
37°	16.2	16.9	18.5	18.5	20.1	20.9	22.5	23.3	25.0	25.7	27.4
38°	14.5	16.2	16.9	17.7	18.5	20.1	20.9	21.8	23.3	25.0	25.7
39°	13.6	15.3	16.2	16.9	17.7	18.5	19.2	20.9	21.8	23.3	24.2
40°	12.9	13.6	15.3	15.3	16.9	17.7	18.5	19.2	20.9	21.8	23.3
42.5°	10.4	12.1	12.9	13.6	14.5	15.3	16.2	16.9	17.7	19.2	20.1
45°	8.8	10.4	11.2	11.2	12.1	12.9	13.6	14.5	16.2	16.9	17.7
47.5°	7.3	8.8	9.7	10.4	10.4	11.2	12.1	12.9	13.6	14.5	15.3
50°	6.5	7.3	8.0	8.8	9.7	9.7	10.4	11.2	12.1	12.9	12.9
51°	6.5	7.3	8.0	8.0	8.8	9.7	10.4	10.4	11.2	12.1	12.1
52°	5.6	6.5	7.3	8.0	8.8	8.8	9.7	10.4	10.4	11.2	12.1
53°	5.6	6.5	7.3	7.3	8.0	8.8	8.8	9.7	10.4	10.4	11.2
54°	4.8	6.5	7.3	7.3	8.0	8.0	8.8	9.7	9.7	9.7	10.4
55°	4.8	5.6	6.5	7.3	7.3	8.0	8.0	8.8	8.8	9.7	9.7
57.5°	4.8	5.6	6.5	6.5	7.3	7.3	8.0	8.0	8.0	8.0	8.8
60°	4.1	4.8	5.6	6.5	6.5	7.3	7.3	7.3	7.3	7.3	8.0
61°	4.1	4.8	5.6	5.6	6.5	6.5	7.3	7.3	7.3	7.3	7.3
62°	4.1	4.8	5.6	5.6	6.5	6.5	6.5	7.3	7.3	7.3	7.3
63°	4.1	4.8	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5	7.3
64°	4.1	4.8	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	4.1	4.8	5.6	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5
66°	4.1	4.8	5.6	5.6	5.6	5.6	6.5	6.5	6.5	6.5	5.6



TEST NUMBER: P1212178

CATALOG NUMBER: LDSQA4A20927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.2	4.1	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.1
75°	3.2	4.1	4.1	4.1	4.8	4.8	4.8	4.1	4.1	4.1	4.1
77.5°	3.2	3.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.2	3.2
80°	3.2	3.2	3.2	4.1	4.1	4.1	4.1	3.2	3.2	3.2	2.4
82.5°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4
85°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	1.6
87.5°	2.4	2.4	2.4	3.2	3.2	3.2	2.4	2.4	1.6	1.6	1.6
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: P1212178

CATALOG NUMBER: LDSQA4A20927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6
2.5°	122.1	123.0	122.1	122.1	120.6	121.4	119.7	122.1
5°	111.7	112.6	111.7	111.7	110.2	110.2	109.3	111.7
7.5°	102.9	103.7	102.0	102.0	100.5	101.3	100.5	102.0
10°	94.0	94.0	94.0	93.2	92.5	93.2	92.5	94.0
12.5°	85.2	86.0	86.0	86.0	85.2	85.2	84.3	86.7
15°	77.9	78.7	79.5	79.5	78.7	79.5	78.7	80.4
17.5°	71.5	73.1	73.1	73.9	73.9	74.8	74.8	76.3
20°	65.1	67.5	67.5	68.3	68.3	69.9	69.9	71.5
22.5°	58.6	61.0	61.9	61.9	62.7	64.2	64.2	65.9
25°	53.0	55.4	56.2	56.2	57.1	58.6	58.6	60.3
26°	50.6	53.0	53.8	54.6	55.4	57.1	57.1	58.6
27°	48.2	50.6	51.5	52.2	53.0	54.6	54.6	56.2
28°	46.6	49.0	49.8	50.6	51.5	53.0	53.0	53.8
29°	44.2	46.6	47.4	48.2	49.0	50.6	50.6	52.2
30°	42.6	44.2	45.0	45.8	46.6	49.0	49.0	50.6
31°	40.2	42.6	43.4	44.2	45.0	46.6	46.6	49.0
32°	38.6	40.2	41.0	41.8	43.4	44.2	45.0	46.6
33°	36.2	38.6	39.4	40.2	41.0	42.6	43.4	45.0
34°	34.6	36.2	37.8	38.6	39.4	41.0	41.8	43.4
35°	33.0	34.6	35.4	36.2	37.8	39.4	39.4	41.0
36°	31.3	33.0	33.8	34.6	36.2	37.8	37.8	39.4
37°	29.8	31.3	32.2	33.0	34.6	36.2	36.2	37.8
38°	28.1	29.8	30.6	31.3	33.0	34.6	35.4	37.0
39°	26.6	28.9	29.8	30.6	31.3	33.0	33.8	34.6
40°	25.7	27.4	28.1	28.9	29.8	31.3	32.2	33.0
42.5°	21.8	24.2	25.0	25.7	26.6	27.4	28.1	28.9
45°	19.2	20.9	20.9	21.8	22.5	24.2	24.2	25.7
47.5°	16.9	17.7	18.5	18.5	19.2	20.9	20.9	21.8
50°	14.5	15.3	16.2	16.2	16.9	17.7	18.5	19.2
51°	13.6	14.5	14.5	15.3	16.2	16.9	17.7	18.5
52°	12.9	13.6	13.6	14.5	15.3	16.2	16.2	16.9
53°	12.1	12.9	12.9	13.6	13.6	15.3	15.3	16.2
54°	11.2	12.1	12.1	12.9	12.9	14.5	14.5	15.3
55°	10.4	11.2	12.1	12.1	12.1	12.9	13.6	14.5
57.5°	9.7	10.4	10.4	10.4	11.2	11.2	12.1	12.1
60°	8.0	8.8	8.8	8.8	9.7	9.7	9.7	10.4
61°	8.0	8.0	8.8	8.8	8.0	8.0	8.0	8.8
62°	7.3	8.0	8.0	7.3	7.3	7.3	7.3	8.0
63°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
64°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	6.5	6.5	6.5	6.5	6.5	6.5	5.6	6.5
66°	5.6	6.5	6.5	5.6	5.6	5.6	5.6	5.6



TEST NUMBER: P1212178

CATALOG NUMBER: LDSQA4A20927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.1	4.1	4.1	4.1	4.1	3.2	3.2	3.2
75°	4.1	3.2	3.2	3.2	3.2	3.2	3.2	2.4
77.5°	3.2	3.2	3.2	3.2	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6
82.5°	2.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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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— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4

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67.5°	2.4	2.4	3.2	3.2	3.2	3.2	2.4	2.4	2.4	3.2	3.2
70°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2

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67.5°	4.1	4.8	4.8	4.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	4.1	4.1	4.8	4.8	4.8	5.6	5.6	4.8	4.8	4.8	4.8

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67.5°	5.6	5.6	5.6	5.6	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.1	4.1	4.1	4.1

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(END OF REPORT)