

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: P1219509

Luminaire Tested: **LDSQA4A15940D010TE LAR35FL 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26801)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15940D010TE LAR35FL 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

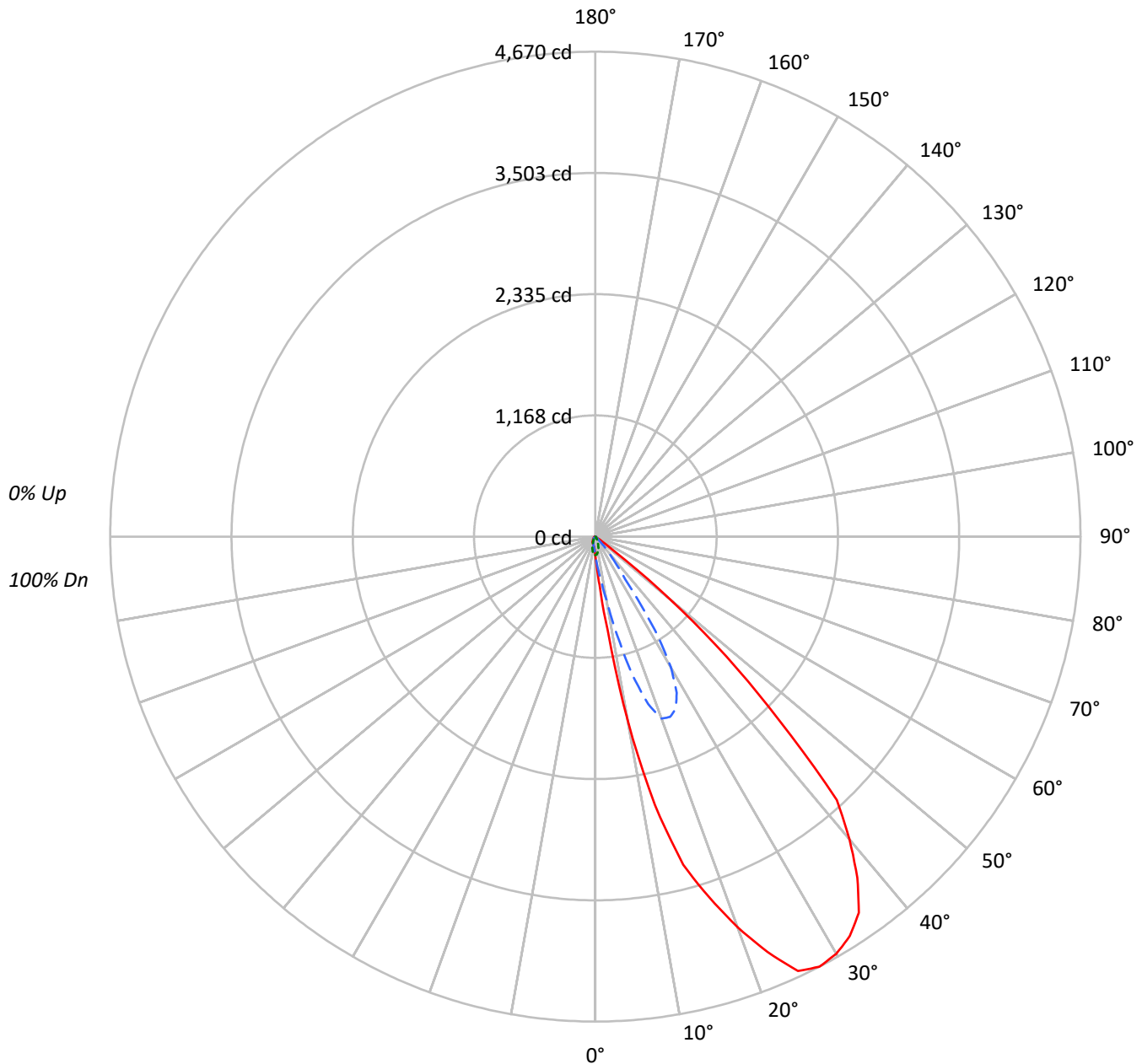
Lumens per Lamp: N/A
Luminaire Lumens: 1529.8 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.59 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1219509

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	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	60		
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	64	57	52	62	56	52	61	55	51	60	55	51	49		
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	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17292	17292	17292
5°	45482	16473	10755
10°	178286	14254	8952
15°	328228	11233	7933
20°	412453	7938	7216
25°	493341	5238	6435
30°	518794	3289	5638
35°	522971	1987	4884
40°	481251	1328	4161
45°	342397	959	3452
50°	141473	738	2848
55°	8158	709	2483
60°	949	678	2034
65°	321	802	1444
70°	397	793	991
75°	524	1048	1048
80°	0	1562	1172
85°	0	3112	1556

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.8
10°-20°	224.2	14.7
20°-30°	463.7	30.3
30°-40°	504.7	33.0
40°-50°	276.8	18.1
50°-60°	24.0	1.6
60°-70°	3.9	0.3
70°-80°	2.8	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°	715.9	46.8
0°-40°	1220.6	79.8
0°-60°	1521.4	99.4
0°-90°	1529.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1529.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	178	178	178	178	178	
5°	468	320	169	117	111	85
15°	3273	1376	112	76	79	914
25°	4615	1830	49	46	60	2084
35°	4422	500	17	27	41	2714
45°	2499	51	7	15	25	1908
55°	48	6	4	9	15	165
65°	1	2	4	6	6	2
75°	1	2	3	4	3	1
85°	0	1	3	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°	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5
2.5°	280.8	271.0	269.5	271.0	263.9	263.2	264.6	259.0	254.1	249.2	245.0
5°	467.7	447.3	441.0	432.6	411.6	404.6	403.2	380.9	359.2	338.8	320.0
7.5°	908.6	868.0	846.4	804.4	739.9	711.2	695.9	622.3	553.7	491.4	434.7
10°	1812.4	1706.0	1654.2	1575.1	1434.4	1365.1	1314.7	1129.9	947.8	772.9	618.8
12.5°	2644.8	2586.0	2509.6	2467.7	2239.5	2152.0	2068.6	1812.4	1535.2	1252.4	971.7
15°	3272.7	3186.6	3105.4	3085.8	2906.5	2804.4	2712.0	2446.7	2116.9	1757.2	1375.6
17.5°	3641.6	3580.0	3503.0	3465.9	3255.9	3173.3	3068.3	2811.4	2490.7	2132.4	1689.2
20°	4000.8	3909.7	3801.2	3745.3	3512.8	3417.6	3298.6	3028.4	2688.8	2308.1	1865.0
22.5°	4329.1	4211.5	4057.4	3970.7	3709.5	3604.5	3471.5	3178.9	2811.4	2376.0	1879.6
25°	4615.4	4509.0	4303.8	4152.0	3844.0	3720.0	3565.3	3259.4	2855.5	2370.4	1829.9
27.5°	4670.0	4598.6	4414.5	4238.8	3890.8	3752.9	3592.6	3276.2	2824.7	2292.6	1696.2
30°	4637.8	4560.8	4413.1	4233.8	3871.2	3731.9	3565.3	3204.8	2704.3	2111.4	1451.2
32.5°	4560.1	4493.6	4317.2	4128.2	3774.7	3629.7	3454.0	3037.5	2497.8	1822.9	1067.6
35°	4422.1	4322.0	4109.3	3953.9	3621.3	3472.2	3257.3	2814.2	2189.1	1310.5	500.5
37.5°	4141.5	4044.2	3890.8	3747.3	3423.2	3247.5	3020.7	2503.3	1622.7	714.8	309.4
40°	3805.5	3721.4	3587.8	3448.5	3114.5	2912.2	2662.3	1956.6	954.9	402.5	190.4
42.5°	3440.1	3353.2	3202.0	3039.6	2675.6	2462.0	2191.9	1266.4	503.3	237.3	103.7
45°	2499.2	2421.4	2311.6	2194.6	1984.0	1829.9	1474.3	665.1	278.6	126.0	51.1
47.5°	1710.2	1617.8	1414.8	1169.1	947.8	810.6	609.7	288.4	142.9	63.0	30.1
50°	938.7	840.7	737.2	574.0	384.3	315.7	245.7	139.3	64.4	31.5	16.8
52.5°	230.3	203.7	186.2	171.5	135.8	122.5	103.7	58.1	29.4	17.5	11.9
55°	48.3	44.8	42.7	42.0	38.5	37.1	32.2	22.4	16.1	11.2	5.6
57.5°	14.0	13.3	14.0	14.0	14.0	13.3	13.3	9.8	9.1	5.6	3.5
60°	4.9	4.9	4.9	5.6	5.6	5.6	6.3	6.3	4.9	3.5	2.8
62.5°	2.1	2.1	2.1	2.8	2.8	3.5	3.5	3.5	2.8	2.8	2.1
65°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
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	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1
80°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5
2.5°	233.1	226.1	217.7	208.6	207.2	202.4	195.3	185.5	182.1	175.0	168.7
5°	292.6	273.7	254.1	236.6	231.0	223.3	210.7	193.2	182.1	169.4	158.9
7.5°	372.4	329.0	289.1	257.6	247.8	235.2	215.6	193.2	176.4	158.9	144.9
10°	478.9	390.7	322.0	271.0	254.8	238.0	212.2	184.8	165.2	144.9	130.2
12.5°	684.0	480.9	352.8	277.9	255.5	233.8	200.9	171.5	149.1	128.8	114.1
15°	972.4	652.4	415.1	282.8	248.5	222.0	183.4	153.4	130.9	112.0	98.0
17.5°	1216.0	814.9	498.5	296.8	243.6	206.5	163.2	132.3	110.6	93.9	82.6
20°	1335.0	887.6	536.3	298.9	229.6	183.4	139.3	109.9	91.0	77.0	67.2
22.5°	1321.0	863.2	501.2	261.9	193.9	154.7	115.5	88.9	72.8	61.6	54.6
25°	1227.2	756.8	408.9	200.2	151.2	125.3	90.3	69.3	56.7	49.0	43.4
27.5°	1069.7	607.7	298.2	141.4	114.8	95.2	67.2	53.2	43.4	37.8	34.3
30°	824.0	388.5	171.5	101.5	83.3	67.9	50.4	38.5	32.9	29.4	26.6
32.5°	424.9	189.0	114.1	72.8	58.8	49.0	35.0	28.0	24.5	22.4	21.0
35°	233.1	134.4	79.1	46.9	37.8	31.5	23.8	19.6	18.2	16.8	16.8
37.5°	160.3	83.3	44.1	28.0	23.1	19.6	16.1	14.0	13.3	13.3	13.3
40°	92.4	44.1	25.2	17.5	14.7	13.3	11.2	10.5	10.5	10.5	11.2
42.5°	47.6	25.9	16.8	11.9	10.5	9.1	7.7	7.7	7.7	8.4	9.1
45°	28.0	17.5	11.2	7.7	7.0	6.3	5.6	5.6	6.3	7.0	7.7
47.5°	17.5	11.9	7.0	4.9	4.2	4.2	4.2	4.2	4.9	5.6	6.3
50°	11.9	6.3	4.2	2.8	2.8	2.8	2.8	3.5	4.2	4.9	5.6
52.5°	6.3	3.5	2.8	2.1	2.1	2.1	2.8	2.8	3.5	4.2	4.9
55°	3.5	2.8	2.1	2.1	2.1	2.1	2.1	2.8	3.5	4.2	4.9
57.5°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5	4.2
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5	4.2
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5	3.5
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	3.5	3.5
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	3.5
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	3.5
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8
75°	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	3.5
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8
85°	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8
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°	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5
2.5°	165.2	159.6	154.0	154.0	151.2	147.0	145.6	141.4	138.6	137.2	135.8
5°	151.2	142.9	135.1	134.4	130.9	126.0	123.9	119.7	116.9	115.5	114.8
7.5°	135.1	126.7	119.0	117.6	114.8	111.3	109.2	105.7	104.3	102.9	102.2
10°	119.7	111.3	105.7	104.3	102.2	99.4	97.3	95.2	93.9	93.1	93.1
12.5°	104.3	98.0	93.1	91.7	90.3	88.2	86.8	85.4	84.7	84.7	84.7
15°	90.3	84.7	80.5	80.5	79.1	77.7	77.7	76.3	75.6	76.3	77.0
17.5°	76.3	72.1	68.6	68.6	67.9	67.2	67.2	67.2	67.9	68.6	70.0
20°	63.0	59.5	58.1	58.1	57.4	58.1	58.1	58.8	59.5	61.6	63.7
22.5°	51.1	49.0	47.6	48.3	48.3	49.0	49.7	51.1	52.5	54.6	56.7
25°	41.3	39.9	39.2	39.9	40.6	41.3	42.7	44.1	46.2	48.3	51.1
27.5°	32.9	32.2	32.2	32.9	33.6	35.0	37.1	38.5	40.6	42.7	45.5
30°	26.6	25.9	26.6	28.0	28.7	30.1	31.5	33.6	35.7	37.8	40.6
32.5°	21.0	21.7	22.4	23.1	23.8	25.9	27.3	28.7	30.8	32.9	35.7
35°	17.5	18.2	18.9	19.6	20.3	21.7	23.1	24.5	26.6	28.7	31.5
37.5°	14.0	14.7	15.4	16.8	17.5	18.2	20.3	21.0	23.1	24.5	27.3
40°	11.9	12.6	13.3	14.0	14.7	16.1	17.5	18.2	19.6	21.7	23.8
42.5°	9.8	10.5	11.2	11.9	12.6	14.0	14.7	16.1	17.5	18.9	20.3
45°	8.4	9.1	9.8	10.5	11.2	11.9	12.6	14.0	14.7	16.1	17.5
47.5°	7.0	7.7	9.1	9.1	9.8	10.5	11.2	11.9	13.3	14.0	15.4
50°	6.3	7.0	7.7	8.4	8.4	9.1	9.8	10.5	11.2	11.9	13.3
52.5°	5.6	6.3	7.0	7.0	7.7	8.4	9.1	9.1	9.8	10.5	11.2
55°	4.9	5.6	6.3	6.3	7.0	7.7	7.7	8.4	9.1	9.1	9.8
57.5°	4.9	4.9	5.6	5.6	6.3	6.3	7.0	7.7	7.7	8.4	9.1
60°	4.2	4.9	4.9	5.6	5.6	6.3	6.3	7.0	7.0	7.7	7.7
62.5°	4.2	4.2	4.9	4.9	5.6	5.6	6.3	6.3	6.3	7.0	7.0
65°	4.2	4.2	4.9	4.9	4.9	5.6	5.6	5.6	5.6	6.3	6.3
67.5°	3.5	4.2	4.2	4.9	4.9	4.9	4.9	4.9	5.6	5.6	5.6
70°	3.5	4.2	4.2	4.2	4.2	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.5	3.5	3.5	3.5	3.5	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	2.8	2.8	2.8	2.8	2.8	3.5	2.8	2.8	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	2.1	2.1	2.1	2.1
87.5°	2.8	2.8	2.8	2.1	2.1	2.1	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

TEST NUMBER: P1219509

CATALOG NUMBER: LDSQA4A15940D010TE LAR35FL 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5
2.5°	133.7	132.3	133.7	132.3	132.3	129.5	131.6	130.2
5°	112.7	111.3	112.7	112.0	110.6	109.9	111.3	110.6
7.5°	100.8	99.4	100.8	100.8	99.4	98.7	100.1	99.4
10°	91.7	91.0	91.7	91.7	91.0	90.3	91.7	91.0
12.5°	84.1	83.3	84.7	84.7	84.1	84.1	85.4	84.1
15°	77.0	77.0	78.4	78.4	78.4	78.4	79.8	79.1
17.5°	70.0	71.4	72.8	73.5	73.5	73.5	74.9	74.9
20°	64.4	65.8	67.2	67.9	68.6	68.6	70.0	70.0
22.5°	58.1	59.5	61.6	62.3	63.0	63.7	65.1	65.1
25°	52.5	53.9	56.0	56.7	58.1	58.8	60.2	60.2
27.5°	46.9	49.0	50.4	51.8	52.5	53.9	55.3	55.3
30°	42.0	44.1	45.5	46.9	47.6	49.0	50.4	50.4
32.5°	37.1	39.2	40.6	42.0	43.4	44.1	46.2	46.2
35°	32.9	34.3	36.4	37.1	38.5	39.9	41.3	41.3
37.5°	28.7	30.1	31.5	32.9	34.3	35.0	36.4	37.1
40°	25.2	26.6	28.0	28.7	30.1	31.5	32.2	32.9
42.5°	21.7	23.1	24.5	25.2	26.6	27.3	28.7	28.7
45°	18.9	20.3	21.0	21.7	23.1	23.8	25.2	25.2
47.5°	16.1	17.5	18.2	18.9	19.6	20.3	21.7	21.7
50°	14.0	14.7	15.4	16.1	16.8	18.2	18.9	18.9
52.5°	11.9	13.3	13.3	14.0	14.7	15.4	16.1	16.8
55°	10.5	11.2	11.9	11.9	12.6	13.3	14.0	14.7
57.5°	9.1	9.8	10.5	10.5	11.2	11.2	11.9	12.6
60°	8.4	8.4	9.1	9.1	9.1	9.8	9.8	10.5
62.5°	7.0	7.0	7.7	7.7	7.7	7.7	7.7	7.7
65°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
67.5°	5.6	5.6	5.6	5.6	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.2	4.2	4.2	3.5
72.5°	4.2	4.2	4.2	4.2	3.5	3.5	2.8	2.8
75°	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8
77.5°	3.5	2.8	2.8	2.8	2.8	2.8	2.8	2.1
80°	2.8	2.8	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4
85°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	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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Peachtree City, GA 30269

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)