

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: P1212240

Luminaire Tested: **LDSQA4A25927D010TE LAR35FL 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: P1212240
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: LDSQA4A25927D010TE 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

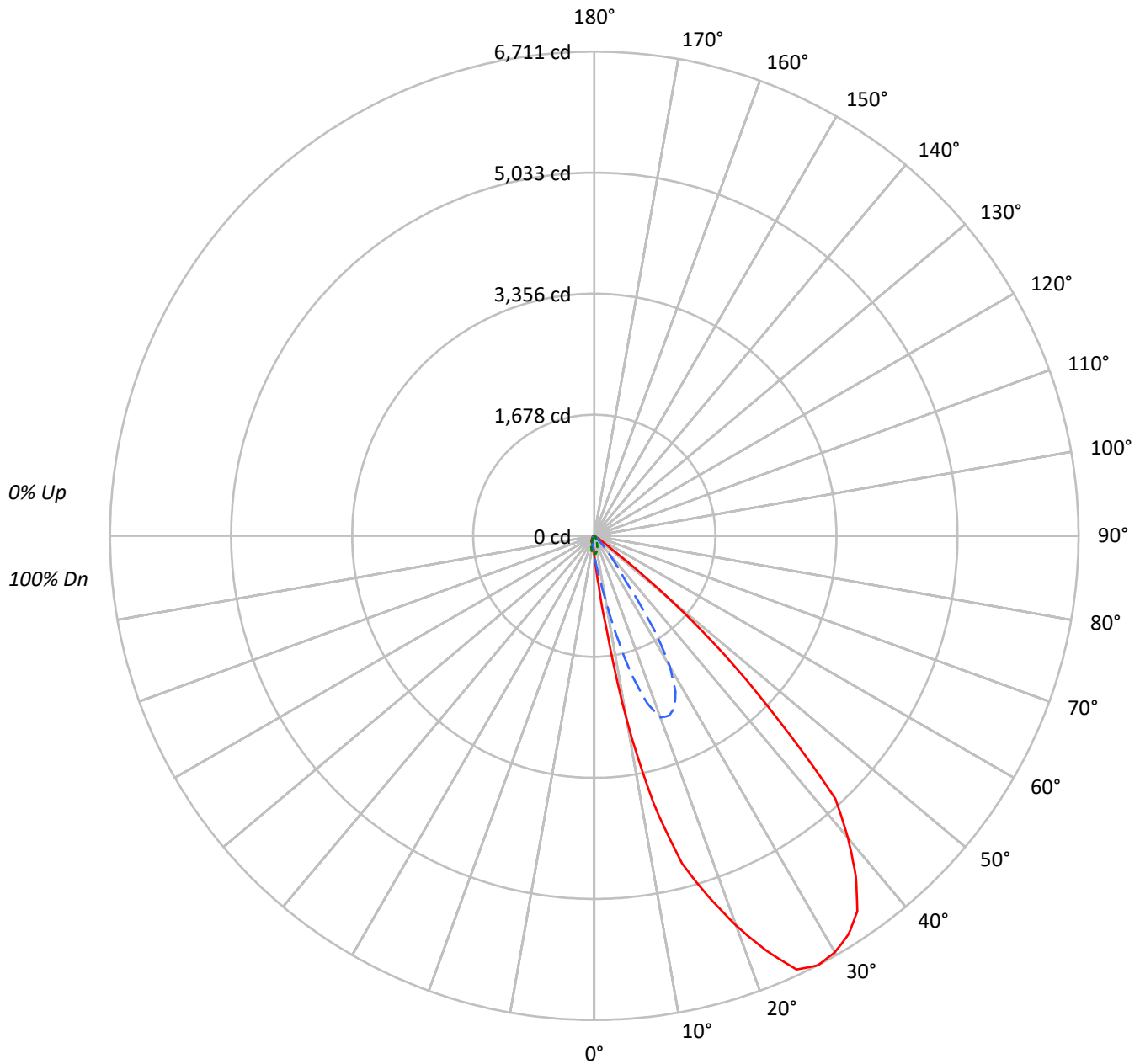
Lumens per Lamp: N/A
Luminaire Lumens: 2198.6 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.59 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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	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°	24849	24849	24849
5°	65349	23679	15462
10°	256224	20490	12867
15°	471697	16147	11393
20°	592731	11412	10371
25°	708981	7536	9246
30°	745561	4732	8099
35°	751574	2862	7013
40°	691595	1910	5982
45°	492045	1384	4973
50°	203325	1055	4099
55°	11721	1013	3564
60°	1356	969	2926
65°	458	1146	2063
70°	566	1133	1416
75°	749	1497	1497
80°	0	2232	1729
85°	0	4446	2223

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	1.8
10°-20°	322.1	14.7
20°-30°	666.3	30.3
30°-40°	725.4	33.0
40°-50°	397.7	18.1
50°-60°	34.4	1.6
60°-70°	5.6	0.3
70°-80°	4.0	0.2
80°-90°	2.6	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°	1028.8	46.8
0°-40°	1754.2	79.8
0°-60°	2186.4	99.4
0°-90°	2198.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2198.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	256	256	256	256	256	
5°	672	460	244	168	159	123
15°	4703	1977	161	109	114	1313
25°	6633	2630	70	66	86	2995
35°	6355	719	24	38	59	3900
45°	3592	73	10	21	36	2741
55°	69	8	6	13	21	237
65°	2	3	5	8	9	3
75°	2	3	4	6	4	1
85°	0	2	4	3	2	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°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
2.5°	403.4	389.3	387.3	389.3	379.2	378.3	380.3	372.2	365.2	358.1	352.1
5°	672.0	642.9	633.8	621.8	591.6	581.5	579.5	547.3	516.1	486.9	459.8
7.5°	1305.9	1247.5	1216.3	1155.9	1063.3	1022.2	1000.0	894.4	795.7	706.3	624.8
10°	2604.7	2451.7	2377.3	2263.5	2061.3	1961.8	1889.3	1623.8	1362.1	1110.6	889.3
12.5°	3800.7	3716.3	3606.7	3546.3	3218.3	3092.6	2972.8	2604.7	2206.2	1799.8	1396.4
15°	4703.2	4579.5	4462.8	4434.6	4177.0	4030.1	3897.4	3516.0	3042.3	2525.2	1976.8
17.5°	5233.4	5144.9	5034.2	4980.9	4679.0	4560.3	4409.5	4040.2	3579.5	3064.3	2427.6
20°	5749.5	5618.7	5462.7	5382.3	5048.3	4911.5	4740.4	4352.1	3864.2	3316.9	2680.0
22.5°	6221.3	6052.3	5831.0	5706.3	5330.9	5180.1	4989.0	4568.3	4040.2	3414.5	2701.2
25°	6632.8	6479.9	6185.1	5966.8	5524.2	5346.1	5123.7	4684.1	4103.6	3406.4	2629.8
27.5°	6711.2	6608.6	6344.1	6091.5	5591.5	5393.3	5163.0	4708.3	4059.3	3294.8	2437.6
30°	6665.0	6554.3	6342.0	6084.4	5563.3	5363.1	5123.7	4605.7	3886.3	3034.2	2085.5
32.5°	6553.3	6457.7	6204.2	5932.6	5424.5	5216.2	4963.7	4365.1	3589.6	2619.7	1534.2
35°	6355.1	6211.2	5905.4	5682.1	5204.2	4989.9	4681.0	4044.3	3145.9	1883.2	719.3
37.5°	5951.7	5811.8	5591.5	5385.3	4919.6	4666.9	4341.0	3597.5	2332.0	1027.1	444.7
40°	5468.8	5348.1	5155.9	4955.7	4475.8	4185.1	3826.0	2811.9	1372.2	578.4	273.7
42.5°	4943.6	4819.0	4601.7	4368.2	3845.1	3538.2	3149.9	1820.0	723.3	341.0	148.9
45°	3591.5	3479.9	3322.0	3153.9	2851.1	2629.8	2118.7	955.7	400.5	181.0	73.4
47.5°	2457.7	2325.0	2033.2	1680.0	1362.1	1165.0	876.3	414.5	205.2	90.5	43.3
50°	1349.1	1208.3	1059.3	825.0	552.3	453.7	353.1	200.2	92.5	45.3	24.2
52.5°	331.0	292.8	267.6	246.5	195.1	176.0	148.9	83.5	42.3	25.1	17.1
55°	69.4	64.4	61.3	60.4	55.3	53.3	46.3	32.2	23.1	16.1	8.1
57.5°	20.2	19.1	20.2	20.2	20.2	19.1	19.1	14.1	13.2	8.1	5.0
60°	7.0	7.0	7.0	8.1	8.1	8.1	9.0	9.0	7.0	5.0	4.0
62.5°	3.1	3.1	3.1	4.0	4.0	5.0	5.0	5.0	4.0	4.0	3.1
65°	2.0	2.0	2.0	2.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.1
77.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.0	2.0	2.0	3.1
80°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.0	2.0	2.0	2.0
82.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.0	2.0	2.0
85°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
2.5°	335.0	325.0	312.9	299.8	297.7	290.7	280.7	266.6	261.6	251.5	242.5
5°	420.5	393.3	365.2	340.1	332.0	321.0	302.8	277.7	261.6	243.5	228.3
7.5°	535.2	472.8	415.5	370.2	356.1	338.1	309.8	277.7	253.5	228.3	208.3
10°	688.1	561.3	462.7	389.3	366.2	342.1	304.9	265.6	237.5	208.3	187.1
12.5°	982.9	691.1	507.1	399.4	367.2	336.0	288.7	246.5	214.2	185.2	163.9
15°	1397.4	937.7	596.5	406.4	357.1	319.0	263.6	220.4	188.1	161.0	140.9
17.5°	1747.5	1171.0	716.3	426.6	350.1	296.8	234.4	190.1	159.0	134.8	118.7
20°	1918.6	1275.6	770.6	429.6	330.0	263.6	200.2	157.9	130.8	110.7	96.6
22.5°	1898.4	1240.5	720.4	376.3	278.6	222.4	166.0	127.8	104.6	88.5	78.4
25°	1763.5	1087.5	587.5	287.8	217.3	180.1	129.8	99.6	81.5	70.5	62.3
27.5°	1537.2	873.2	428.6	203.2	165.0	136.9	96.6	76.4	62.3	54.3	49.3
30°	1184.1	558.3	246.5	145.9	119.7	97.6	72.4	55.3	47.3	42.3	38.3
32.5°	610.7	271.6	163.9	104.6	84.5	70.5	50.3	40.3	35.2	32.2	30.2
35°	335.0	193.1	113.6	67.4	54.3	45.3	34.2	28.2	26.2	24.2	24.2
37.5°	230.4	119.7	63.3	40.3	33.2	28.2	23.1	20.2	19.1	19.1	19.1
40°	132.8	63.3	36.3	25.1	21.1	19.1	16.1	15.1	15.1	15.1	16.1
42.5°	68.4	37.2	24.2	17.1	15.1	13.2	11.0	11.0	11.0	12.1	13.2
45°	40.3	25.1	16.1	11.0	10.1	9.0	8.1	8.1	9.0	10.1	11.0
47.5°	25.1	17.1	10.1	7.0	6.0	6.0	6.0	6.0	7.0	8.1	9.0
50°	17.1	9.0	6.0	4.0	4.0	4.0	4.0	5.0	6.0	7.0	8.1
52.5°	9.0	5.0	4.0	3.1	3.1	3.1	4.0	4.0	5.0	6.0	7.0
55°	5.0	4.0	3.1	3.1	3.1	3.1	3.1	4.0	5.0	6.0	7.0
57.5°	4.0	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	5.0	6.0
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	5.0	6.0
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	5.0	5.0
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	5.0	5.0
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	5.0
70°	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	5.0
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0
75°	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	4.0	5.0
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	4.0
80°	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	4.0
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	4.0
85°	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.0	4.0	4.0	4.0	4.0
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°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
2.5°	237.5	229.4	221.3	221.3	217.3	211.3	209.2	203.2	199.2	197.2	195.1
5°	217.3	205.2	194.2	193.1	188.1	181.0	178.1	172.0	168.0	166.0	165.0
7.5°	194.2	182.1	171.0	169.0	165.0	159.9	156.9	151.9	149.9	147.9	146.9
10°	172.0	159.9	151.9	149.9	146.9	142.9	139.9	136.9	134.8	133.8	133.8
12.5°	149.9	140.9	133.8	131.8	129.8	126.8	124.8	122.8	121.7	121.7	121.7
15°	129.8	121.7	115.8	115.8	113.6	111.6	111.6	109.6	108.7	109.6	110.7
17.5°	109.6	103.7	98.6	98.6	97.6	96.6	96.6	96.6	97.6	98.6	100.6
20°	90.5	85.5	83.5	83.5	82.4	83.5	83.5	84.5	85.5	88.5	91.6
22.5°	73.4	70.5	68.4	69.4	69.4	70.5	71.4	73.4	75.4	78.4	81.5
25°	59.3	57.3	56.3	57.3	58.4	59.3	61.3	63.3	66.4	69.4	73.4
27.5°	47.3	46.3	46.3	47.3	48.3	50.3	53.3	55.3	58.4	61.3	65.4
30°	38.3	37.2	38.3	40.3	41.3	43.3	45.3	48.3	51.3	54.3	58.4
32.5°	30.2	31.2	32.2	33.2	34.2	37.2	39.3	41.3	44.2	47.3	51.3
35°	25.1	26.2	27.2	28.2	29.2	31.2	33.2	35.2	38.3	41.3	45.3
37.5°	20.2	21.1	22.2	24.2	25.1	26.2	29.2	30.2	33.2	35.2	39.3
40°	17.1	18.1	19.1	20.2	21.1	23.1	25.1	26.2	28.2	31.2	34.2
42.5°	14.1	15.1	16.1	17.1	18.1	20.2	21.1	23.1	25.1	27.2	29.2
45°	12.1	13.2	14.1	15.1	16.1	17.1	18.1	20.2	21.1	23.1	25.1
47.5°	10.1	11.0	13.2	13.2	14.1	15.1	16.1	17.1	19.1	20.2	22.2
50°	9.0	10.1	11.0	12.1	12.1	13.2	14.1	15.1	16.1	17.1	19.1
52.5°	8.1	9.0	10.1	10.1	11.0	12.1	13.2	13.2	14.1	15.1	16.1
55°	7.0	8.1	9.0	9.0	10.1	11.0	11.0	12.1	13.2	13.2	14.1
57.5°	7.0	7.0	8.1	8.1	9.0	9.0	10.1	11.0	11.0	12.1	13.2
60°	6.0	7.0	7.0	8.1	8.1	9.0	9.0	10.1	10.1	11.0	11.0
62.5°	6.0	6.0	7.0	7.0	8.1	8.1	9.0	9.0	9.0	10.1	10.1
65°	6.0	6.0	7.0	7.0	7.0	8.1	8.1	8.1	8.1	9.0	9.0
67.5°	5.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	8.1	8.1	8.1
70°	5.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0
72.5°	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
75°	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	4.0	4.0	4.0	4.0	4.0	5.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.1	3.1
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.1	3.1	3.1	3.1
87.5°	4.0	4.0	4.0	3.1	3.1	3.1	3.1	3.1	3.1	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

TEST NUMBER: P1212240

CATALOG NUMBER: LDSQA4A25927D010TE LAR35FL 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	256.5	256.5	256.5	256.5	256.5	256.5	256.5	256.5
2.5°	192.2	190.1	192.2	190.1	190.1	186.1	189.1	187.1
5°	161.9	159.9	161.9	161.0	159.0	157.9	159.9	159.0
7.5°	144.9	142.9	144.9	144.9	142.9	141.9	143.9	142.9
10°	131.8	130.8	131.8	131.8	130.8	129.8	131.8	130.8
12.5°	120.8	119.7	121.7	121.7	120.8	120.8	122.8	120.8
15°	110.7	110.7	112.7	112.7	112.7	112.7	114.7	113.6
17.5°	100.6	102.6	104.6	105.7	105.7	105.7	107.7	107.7
20°	92.5	94.5	96.6	97.6	98.6	98.6	100.6	100.6
22.5°	83.5	85.5	88.5	89.6	90.5	91.6	93.6	93.6
25°	75.4	77.5	80.4	81.5	83.5	84.5	86.5	86.5
27.5°	67.4	70.5	72.4	74.4	75.4	77.5	79.5	79.5
30°	60.4	63.3	65.4	67.4	68.4	70.5	72.4	72.4
32.5°	53.3	56.3	58.4	60.4	62.3	63.3	66.4	66.4
35°	47.3	49.3	52.3	53.3	55.3	57.3	59.3	59.3
37.5°	41.3	43.3	45.3	47.3	49.3	50.3	52.3	53.3
40°	36.3	38.3	40.3	41.3	43.3	45.3	46.3	47.3
42.5°	31.2	33.2	35.2	36.3	38.3	39.3	41.3	41.3
45°	27.2	29.2	30.2	31.2	33.2	34.2	36.3	36.3
47.5°	23.1	25.1	26.2	27.2	28.2	29.2	31.2	31.2
50°	20.2	21.1	22.2	23.1	24.2	26.2	27.2	27.2
52.5°	17.1	19.1	19.1	20.2	21.1	22.2	23.1	24.2
55°	15.1	16.1	17.1	17.1	18.1	19.1	20.2	21.1
57.5°	13.2	14.1	15.1	15.1	16.1	16.1	17.1	18.1
60°	12.1	12.1	13.2	13.2	13.2	14.1	14.1	15.1
62.5°	10.1	10.1	11.0	11.0	11.0	11.0	11.0	11.0
65°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
67.5°	8.1	8.1	8.1	8.1	7.0	7.0	7.0	7.0
70°	7.0	7.0	7.0	7.0	6.0	6.0	6.0	5.0
72.5°	6.0	6.0	6.0	6.0	5.0	5.0	4.0	4.0
75°	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0
77.5°	5.0	4.0	4.0	4.0	4.0	4.0	4.0	3.1
80°	4.0	4.0	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	2.0	2.0	2.0	2.0
85°	3.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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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(END OF REPORT)