

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: P1219549

Luminaire Tested: **LDSQA4A25950D010TE LAR25NF 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: P1219549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26803)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25950D010TE LAR25NF 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

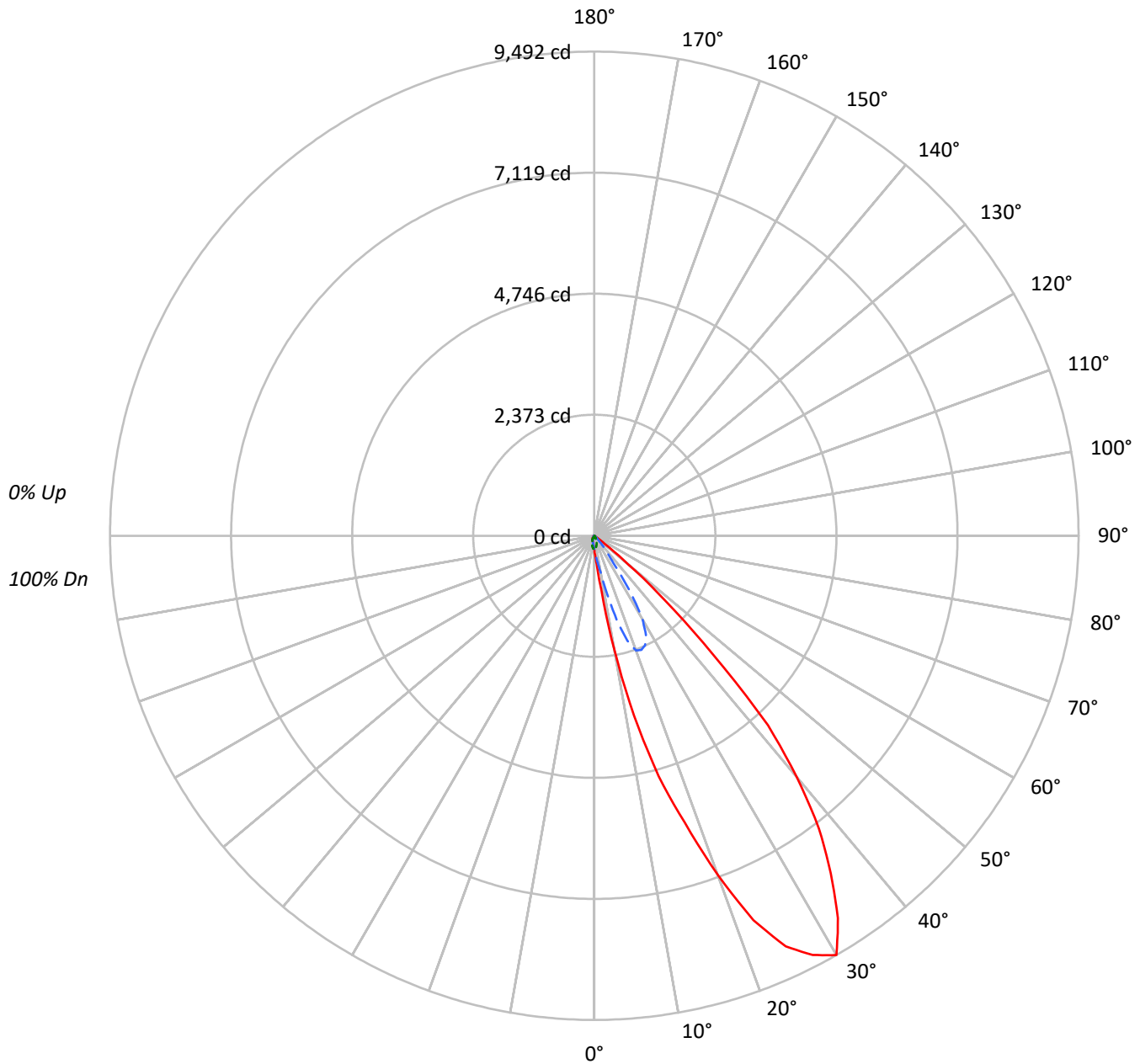
Lumens per Lamp: N/A
Luminaire Lumens: 2377.4 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.61 / 1.19
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					0
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	106	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	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	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	58	51	47	57	51	47	55	50	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25672	25672	25672
5°	57462	24156	17290
10°	225336	21140	13614
15°	489168	17130	11845
20°	729752	12670	10701
25°	949164	8936	9321
30°	1061818	6007	8144
35°	955577	3524	6907
40°	779840	2415	6032
45°	447765	1644	4905
50°	130968	1251	4160
55°	15116	996	3429
60°	3236	1143	2790
65°	1100	1100	1903
70°	991	1360	1360
75°	898	1797	1310
80°	0	2678	1339
85°	0	5335	1223

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.6
10°-20°	325.5	13.7
20°-30°	776.4	32.7
30°-40°	819.4	34.5
40°-50°	371.6	15.6
50°-60°	32.6	1.4
60°-70°	6.8	0.3
70°-80°	4.4	0.2
80°-90°	2.7	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°	1139.8	47.9
0°-40°	1959.2	82.4
0°-60°	2363.4	99.4
0°-90°	2377.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	265	265	265	265	265	
5°	591	433	248	191	178	106
15°	4877	1715	171	117	118	1419
25°	8880	2361	84	72	87	4034
35°	8080	652	30	41	58	4990
45°	3268	92	12	23	36	2591
55°	90	14	6	13	20	178
65°	5	5	5	10	8	6
75°	2	2	5	6	4	2
85°	0	2	5	4	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°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	393.8	396.2	385.6	386.8	376.1	380.8	377.2	367.6	360.5	348.5	343.7
5°	590.9	594.5	570.5	563.5	538.3	538.3	527.7	502.5	479.9	452.3	433.3
7.5°	1080.4	1094.6	1023.0	969.3	890.4	871.4	834.4	748.4	678.0	606.3	552.7
10°	2290.7	2264.4	2116.4	1994.7	1791.8	1716.4	1616.3	1369.2	1142.4	916.8	740.1
12.5°	3612.1	3696.8	3411.5	3312.5	2991.5	2923.3	2709.6	2306.2	1923.1	1524.3	1170.9
15°	4877.4	4902.5	4653.0	4491.9	4100.4	4012.0	3749.4	3275.4	2759.8	2203.6	1715.4
17.5°	5893.3	5993.5	5627.0	5454.0	4945.5	4803.4	4494.3	3917.7	3343.5	2735.9	2157.0
20°	7078.6	7104.8	6670.4	6337.2	5672.4	5456.4	5086.3	4371.3	3687.3	2993.7	2395.7
22.5°	8156.5	8150.5	7591.9	7121.5	6280.0	6022.1	5564.9	4717.4	3922.5	3108.4	2418.3
25°	8879.8	8898.9	8300.9	7744.7	6712.1	6363.6	5847.9	4897.7	4002.4	3104.8	2361.1
27.5°	9265.4	9246.3	8605.3	8010.8	6870.9	6480.6	5920.7	4903.7	3929.6	2982.9	2189.2
30°	9492.2	9236.8	8552.8	7935.6	6763.4	6362.4	5793.0	4715.0	3687.3	2710.8	1882.4
32.5°	8885.8	8786.8	8191.1	7535.8	6393.4	5995.9	5433.7	4314.0	3302.9	2294.2	1348.9
35°	8080.1	8083.7	7502.4	6890.0	5813.3	5467.1	4887.1	3825.8	2833.9	1594.7	651.8
37.5°	7235.0	7246.9	6694.2	6124.8	5166.3	4802.2	4259.0	3269.4	2038.8	811.6	392.7
40°	6166.6	6191.6	5715.4	5258.1	4373.7	4022.7	3538.1	2474.6	1140.0	453.6	266.2
42.5°	5038.6	5069.6	4647.0	4241.2	3489.1	3200.2	2770.6	1532.8	565.8	293.7	156.4
45°	3268.3	3357.8	3044.0	2873.2	2437.4	2265.6	1808.5	781.9	341.4	171.9	91.9
47.5°	1870.4	1871.7	1606.7	1286.8	1055.3	918.0	717.4	355.8	199.4	96.7	56.1
50°	869.0	890.4	705.4	587.3	420.2	355.8	292.4	192.2	105.0	56.1	34.6
52.5°	253.0	267.4	242.2	219.6	186.2	166.0	142.1	94.3	54.9	33.5	21.5
55°	89.5	95.6	89.5	83.6	75.2	68.0	60.9	45.3	31.1	20.3	14.4
57.5°	36.9	38.2	36.9	35.8	33.5	33.5	29.8	25.0	19.1	13.2	9.6
60°	16.7	17.9	16.7	17.9	16.7	16.7	16.7	17.9	12.0	8.3	7.2
62.5°	7.2	8.3	8.3	8.3	8.3	9.6	9.6	8.3	7.2	5.9	4.8
65°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	2.4	2.4	2.4	2.4	2.4	3.5	3.5
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.4	2.4	2.4
80°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	2.4
82.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	337.8	327.1	310.3	299.6	294.8	287.7	283.0	270.9	266.2	256.6	253.0
5°	415.4	393.8	368.9	348.5	335.4	321.2	299.6	275.7	263.7	248.4	239.9
7.5°	503.7	457.3	413.0	377.2	360.5	341.4	313.9	277.0	254.3	234.0	222.0
10°	615.9	520.4	451.2	393.8	368.9	343.7	310.3	267.4	238.8	214.9	201.8
12.5°	878.5	627.8	485.8	403.5	371.3	340.2	298.4	254.3	220.9	193.3	179.0
15°	1264.1	877.3	579.0	411.8	362.9	324.7	277.0	232.9	198.1	170.8	156.4
17.5°	1605.6	1118.4	707.8	442.9	360.5	306.8	250.7	205.3	171.9	145.7	133.7
20°	1791.8	1245.0	793.8	462.0	349.8	279.3	220.9	177.8	145.7	122.9	112.3
22.5°	1795.2	1237.8	762.7	420.2	308.0	242.2	190.9	150.4	121.7	101.5	93.1
25°	1687.9	1104.2	636.3	330.6	251.9	205.3	160.0	125.3	99.1	83.6	76.3
27.5°	1487.3	897.6	467.9	238.8	197.0	166.0	129.0	100.4	77.6	68.0	62.1
30°	1169.8	584.9	273.3	177.8	152.8	127.7	98.0	70.4	60.9	53.7	48.9
32.5°	627.8	284.1	190.9	131.4	108.6	89.5	64.5	51.3	44.2	39.3	38.2
35°	328.2	207.7	127.7	83.6	69.3	58.4	44.2	35.8	32.2	29.8	29.8
37.5°	235.2	130.1	81.2	53.7	45.3	36.9	31.1	26.3	23.9	23.9	23.9
40°	139.7	80.0	48.9	34.6	29.8	26.3	22.7	19.1	19.1	19.1	19.1
42.5°	84.8	50.1	34.6	23.9	21.5	19.1	16.7	15.5	14.4	14.4	15.5
45°	52.5	34.6	22.7	17.9	16.7	14.4	13.2	12.0	12.0	12.0	13.2
47.5°	33.5	25.0	16.7	12.0	10.8	9.6	8.3	8.3	9.6	9.6	10.8
50°	25.0	15.5	10.8	8.3	7.2	7.2	5.9	7.2	7.2	8.3	9.6
52.5°	14.4	9.6	7.2	5.9	5.9	4.8	4.8	5.9	5.9	7.2	8.3
55°	9.6	7.2	5.9	4.8	4.8	4.8	4.8	4.8	5.9	5.9	7.2
57.5°	7.2	5.9	4.8	4.8	4.8	3.5	4.8	4.8	4.8	5.9	7.2
60°	5.9	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8	5.9	5.9
62.5°	4.8	4.8	4.8	4.8	4.8	3.5	4.8	4.8	4.8	4.8	5.9
65°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.9
67.5°	3.5	3.5	4.8	4.8	4.8	3.5	4.8	4.8	4.8	4.8	5.9
70°	3.5	3.5	3.5	4.8	4.8	3.5	4.8	4.8	4.8	4.8	4.8
72.5°	3.5	3.5	3.5	4.8	4.8	3.5	4.8	4.8	4.8	4.8	4.8
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	4.8
77.5°	3.5	3.5	3.5	3.5	4.8	3.5	4.8	4.8	4.8	4.8	4.8
80°	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	4.8	4.8
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	4.8	4.8
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	4.8
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°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	243.5	239.9	232.9	231.6	230.4	225.6	222.0	218.5	218.5	214.9	212.5
5°	225.6	219.6	211.2	207.7	206.5	200.5	195.7	192.2	190.9	187.4	183.8
7.5°	206.5	199.4	189.8	186.2	185.0	179.0	174.2	170.8	168.4	164.7	162.3
10°	186.2	177.8	169.5	166.0	164.7	158.8	155.2	151.6	149.2	146.8	144.5
12.5°	164.7	157.6	149.2	145.7	144.5	139.7	136.0	133.7	132.5	130.1	129.0
15°	143.2	136.0	129.0	126.5	125.3	121.7	119.4	118.1	117.0	117.0	115.8
17.5°	121.7	115.8	109.7	108.6	107.3	105.0	103.8	102.6	103.8	103.8	105.0
20°	101.5	96.7	91.9	91.9	90.7	89.5	89.5	89.5	91.9	93.1	95.6
22.5°	83.6	80.0	76.3	76.3	76.3	76.3	76.3	78.8	81.2	83.6	84.8
25°	69.3	65.6	64.5	64.5	64.5	65.6	66.9	69.3	71.7	73.9	76.3
27.5°	56.1	53.7	53.7	53.7	54.9	56.1	57.3	59.6	63.2	65.6	68.0
30°	45.3	44.2	44.2	45.3	46.6	47.7	50.1	52.5	54.9	57.3	59.6
32.5°	35.8	36.9	36.9	38.2	39.3	40.6	43.1	45.3	47.7	50.1	51.3
35°	29.8	29.8	31.1	32.2	33.5	34.6	36.9	39.3	40.6	43.1	45.3
37.5°	23.9	25.0	26.3	27.6	28.7	29.8	31.1	33.5	34.6	36.9	39.3
40°	20.3	21.5	22.7	23.9	23.9	26.3	26.3	28.7	29.8	32.2	34.6
42.5°	16.7	17.9	19.1	20.3	20.3	21.5	22.7	23.9	26.3	27.6	29.8
45°	13.2	14.4	15.5	16.7	17.9	19.1	19.1	21.5	22.7	23.9	26.3
47.5°	12.0	13.2	14.4	14.4	15.5	16.7	16.7	19.1	20.3	21.5	22.7
50°	9.6	10.8	12.0	13.2	13.2	14.4	15.5	16.7	17.9	19.1	19.1
52.5°	8.3	9.6	10.8	10.8	12.0	13.2	13.2	14.4	15.5	15.5	16.7
55°	8.3	9.6	9.6	10.8	10.8	12.0	12.0	13.2	13.2	14.4	14.4
57.5°	7.2	8.3	8.3	9.6	9.6	10.8	10.8	12.0	12.0	12.0	13.2
60°	7.2	7.2	8.3	8.3	9.6	9.6	9.6	10.8	10.8	10.8	12.0
62.5°	5.9	7.2	7.2	8.3	8.3	8.3	9.6	9.6	9.6	10.8	10.8
65°	5.9	7.2	7.2	8.3	8.3	8.3	8.3	8.3	9.6	9.6	9.6
67.5°	5.9	5.9	7.2	7.2	7.2	7.2	8.3	8.3	8.3	8.3	8.3
70°	5.9	5.9	5.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	4.8	5.9	5.9	5.9	5.9	7.2	7.2	7.2	7.2	7.2	5.9
75°	4.8	4.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	4.8	4.8	4.8	5.9	5.9	5.9	5.9	5.9	5.9	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5
85°	4.8	3.5	4.8	4.8	4.8	3.5	3.5	3.5	3.5	3.5	2.4
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	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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Peachtree City, GA 30269



TEST NUMBER: P1219549

CATALOG NUMBER: LDSQA4A25950D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	210.1	207.7	208.8	208.8	206.5	205.3	205.3	206.5
5°	181.5	179.0	180.3	180.3	177.8	176.6	176.6	177.8
7.5°	160.0	157.6	158.8	158.8	156.4	156.4	156.4	156.4
10°	143.2	142.1	142.1	142.1	139.7	140.8	139.7	138.4
12.5°	127.7	127.7	127.7	127.7	126.5	127.7	126.5	126.5
15°	115.8	115.8	117.0	117.0	117.0	118.1	118.1	118.1
17.5°	106.2	107.3	108.6	109.7	109.7	111.0	111.0	111.0
20°	96.7	99.1	100.4	101.5	101.5	103.8	102.6	103.8
22.5°	87.2	89.5	90.7	91.9	93.1	94.3	94.3	95.6
25°	78.8	81.2	82.4	83.6	84.8	87.2	87.2	87.2
27.5°	70.4	72.8	73.9	76.3	77.6	80.0	80.0	80.0
30°	62.1	64.5	65.6	66.9	69.3	71.7	71.7	72.8
32.5°	53.7	57.3	58.4	59.6	62.1	64.5	65.6	65.6
35°	47.7	50.1	51.3	53.7	54.9	58.4	58.4	58.4
37.5°	41.7	44.2	46.6	47.7	48.9	51.3	52.5	53.7
40°	36.9	39.3	40.6	41.7	44.2	46.6	47.7	47.7
42.5°	32.2	34.6	35.8	36.9	38.2	40.6	40.6	40.6
45°	28.7	29.8	31.1	32.2	33.5	34.6	35.8	35.8
47.5°	23.9	26.3	26.3	27.6	28.7	31.1	31.1	32.2
50°	20.3	22.7	22.7	23.9	25.0	26.3	27.6	27.6
52.5°	17.9	19.1	20.3	20.3	21.5	22.7	23.9	23.9
55°	15.5	16.7	16.7	17.9	17.9	19.1	20.3	20.3
57.5°	13.2	14.4	15.5	15.5	15.5	16.7	16.7	17.9
60°	12.0	13.2	13.2	13.2	13.2	14.4	14.4	14.4
62.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
65°	9.6	9.6	9.6	9.6	8.3	8.3	8.3	8.3
67.5°	8.3	8.3	8.3	8.3	7.2	7.2	7.2	7.2
70°	7.2	7.2	7.2	7.2	5.9	5.9	5.9	4.8
72.5°	5.9	5.9	5.9	5.9	5.9	4.8	4.8	4.8
75°	5.9	4.8	4.8	4.8	4.8	4.8	3.5	3.5
77.5°	4.8	4.8	4.8	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	2.4	2.4	2.4
82.5°	3.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	1.1	1.1	1.1	1.1
87.5°	2.4	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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