

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: P1212300

Luminaire Tested: **LDSQA4A30930D010TE LAR15SP 4LSQA1H-LSF-20 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: P1212300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26830)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30930D010TE LAR15SP 4LSQA1H-LSF-20 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

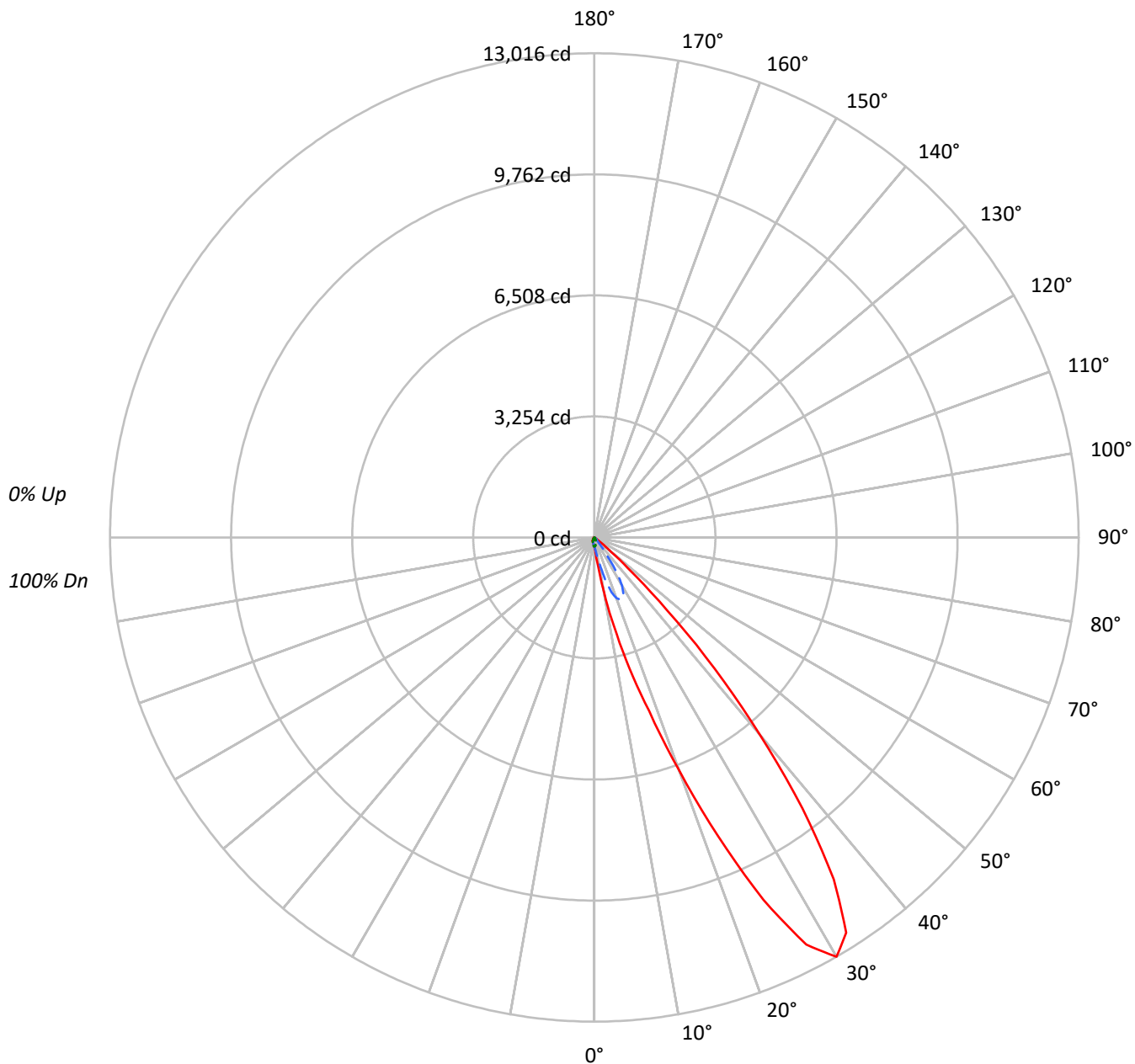
Lumens per Lamp: N/A
Luminaire Lumens: 2271.7 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.64 / 1.15
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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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CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQA1H-LSF-20 30°

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104	110	107	105	102		103	101	99		99	98	96		96	94	93
2	106	100	95	91	103	98	94	90		95	91	88		92	89	86		89	87	84
3	99	91	85	81	97	90	84	80		87	83	79		85	81	77		82	79	76
4	92	83	77	72	90	82	76	71		80	75	70		78	73	70		76	72	69
5	86	76	69	64	85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	70	63	58	79	69	62	57		67	61	57		66	61	57		64	60	56
7	75	64	57	52	74	63	57	52		62	56	51		61	55	51		59	55	51
8	70	59	52	47	69	58	51	47		57	51	46		56	50	46		55	50	46
9	66	54	47	42	65	54	47	42		53	46	42		52	46	42		51	46	42
10	62	50	43	38	60	50	43	38		49	42	38		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23754	23754	23754
5°	45501	22629	18370
10°	148794	20067	15631
15°	364394	16558	13800
20°	686577	12639	12381
25°	1149305	8957	10839
30°	1455941	6152	9240
35°	1326628	3997	7841
40°	873687	2845	6639
45°	378470	1891	5480
50°	67127	1326	4536
55°	10776	1047	3800
60°	2674	969	2906
65°	848	1146	2315
70°	708	1416	1756
75°	936	1385	1385
80°	0	2064	1395
85°	0	4113	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	1.4
10°-20°	252.7	11.1
20°-30°	761.2	33.5
30°-40°	866.3	38.1
40°-50°	320.3	14.1
50°-60°	25.4	1.1
60°-70°	6.8	0.3
70°-80°	4.7	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°	1045.3	46.0
0°-40°	1911.7	84.2
0°-60°	2257.4	99.4
0°-90°	2271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	468	344	233	195	189	76
15°	3633	1227	165	130	138	1139
25°	10752	1794	84	81	101	4908
35°	11218	628	34	46	66	6669
45°	2762	74	14	25	40	2339
55°	64	14	6	15	22	104
65°	4	4	5	10	10	5
75°	2	4	4	6	4	2
85°	0	2	4	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°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	315.3	317.8	315.3	310.3	310.3	304.0	301.5	299.0	292.8	289.1	284.0
5°	467.9	460.4	454.1	439.1	434.1	420.4	410.4	396.6	377.9	361.6	344.1
7.5°	800.7	789.4	765.7	720.6	693.1	659.4	633.0	589.3	533.0	486.7	440.4
10°	1512.6	1463.8	1407.5	1306.2	1232.4	1153.5	1091.0	973.4	832.0	715.6	603.1
12.5°	2437.2	2440.9	2335.8	2164.4	2028.1	1889.2	1781.6	1563.9	1313.7	1094.7	878.3
15°	3633.3	3564.5	3455.7	3192.9	2920.1	2718.7	2547.2	2216.9	1862.9	1542.7	1227.4
17.5°	4893.1	4921.9	4667.9	4238.9	3807.2	3505.7	3246.7	2746.2	2325.9	1929.2	1543.9
20°	6659.8	6462.1	6099.3	5403.7	4733.0	4296.4	3912.3	3263.0	2676.2	2172.0	1739.1
22.5°	8696.6	8377.6	7639.4	6659.8	5645.1	5040.8	4505.3	3612.0	2898.9	2295.8	1805.4
25°	10752.2	10508.2	9332.2	7868.3	6414.6	5631.4	4938.2	3848.4	3005.2	2324.6	1794.1
27.5°	12338.7	11940.8	10600.9	8692.9	6873.7	5949.1	5139.7	3921.0	2982.7	2254.6	1687.8
30°	13015.5	12512.6	11027.4	8880.6	6877.4	5896.6	5039.6	3777.1	2822.5	2076.8	1487.6
32.5°	12597.6	12017.1	10519.5	8361.3	6407.0	5486.2	4653.0	3465.6	2557.3	1797.8	1117.2
35°	11217.6	10639.6	9252.1	7336.6	5656.3	4851.9	4127.4	3059.0	2178.2	1332.5	628.1
37.5°	9185.8	8692.9	7700.7	6149.3	4766.8	4113.8	3510.7	2577.3	1622.7	764.4	315.3
40°	6908.7	6562.1	5966.6	4876.9	3858.5	3361.7	2876.3	1974.3	985.9	384.1	178.9
42.5°	4789.3	4564.1	4265.1	3608.2	2976.4	2634.9	2245.8	1318.7	506.7	211.4	111.3
45°	2762.5	2621.1	2538.5	2258.3	2011.9	1845.4	1501.3	710.7	256.5	126.3	73.8
47.5°	1219.8	1126.0	1085.9	968.4	900.8	855.7	679.4	302.7	137.6	81.4	61.4
50°	445.4	445.4	446.7	392.9	321.5	289.1	226.5	133.9	77.5	63.8	45.1
52.5°	157.6	155.1	161.4	152.7	133.9	120.1	100.1	67.6	47.6	40.0	25.0
55°	63.8	61.4	63.8	60.0	56.3	52.5	46.3	36.3	30.1	25.0	13.8
57.5°	28.8	28.8	30.1	28.8	28.8	26.3	23.7	27.6	21.2	13.8	8.8
60°	13.8	13.8	15.0	15.0	15.0	13.8	13.8	15.0	12.5	8.8	6.2
62.5°	6.2	6.2	7.5	7.5	7.5	7.5	7.5	8.8	6.2	5.0	3.7
65°	3.7	2.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
77.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7
80°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5
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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CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQA1H-LSF-20 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	279.0	275.3	267.7	264.0	259.0	255.3	252.8	247.7	242.7	239.0	236.5
5°	327.8	314.0	297.8	285.2	275.3	268.9	259.0	250.2	240.2	232.7	226.5
7.5°	399.1	365.3	329.1	304.0	290.3	277.8	260.2	245.2	231.4	221.5	212.7
10°	510.4	437.9	374.1	325.3	301.5	284.0	256.5	235.3	217.8	204.0	195.2
12.5°	695.6	546.7	434.1	351.5	315.3	289.1	250.2	221.5	200.2	186.4	175.1
15°	949.7	706.9	516.7	382.8	331.5	294.0	240.2	205.2	181.4	165.1	155.1
17.5°	1188.5	874.5	610.5	420.4	347.8	296.5	226.5	184.0	158.9	143.8	133.9
20°	1338.7	983.4	673.1	441.6	352.8	289.1	207.7	161.4	136.4	122.6	112.5
22.5°	1373.7	995.9	668.1	421.6	331.5	266.5	181.4	138.9	115.1	102.6	93.8
25°	1322.4	925.8	598.0	364.1	282.7	224.0	151.4	112.5	95.0	83.8	77.5
27.5°	1193.6	788.2	472.9	274.0	211.4	165.1	115.1	87.6	76.3	67.6	63.8
30°	962.1	554.3	296.5	170.2	135.1	108.8	82.6	67.6	58.8	55.0	51.3
32.5°	583.1	285.2	156.4	101.4	85.1	73.8	60.0	50.1	45.1	42.5	41.2
35°	277.8	150.2	96.4	68.8	60.0	52.5	43.8	37.5	35.0	33.8	33.8
37.5°	157.6	97.6	65.1	46.3	41.2	36.3	32.5	28.8	27.6	27.6	27.6
40°	100.1	62.6	42.5	33.8	30.1	27.6	25.0	22.5	22.5	22.5	22.5
42.5°	65.1	45.1	32.5	25.0	22.5	21.2	18.8	17.5	17.5	17.5	18.8
45°	51.3	37.5	26.3	20.0	17.5	16.3	15.0	13.8	13.8	13.8	15.0
47.5°	43.8	26.3	17.5	13.8	11.3	11.3	10.1	10.1	10.1	11.3	12.5
50°	26.3	16.3	11.3	8.8	7.5	7.5	7.5	7.5	7.5	8.8	10.1
52.5°	15.0	10.1	7.5	6.2	5.0	5.0	5.0	5.0	6.2	7.5	7.5
55°	10.1	7.5	5.0	5.0	3.7	3.7	3.7	5.0	5.0	6.2	7.5
57.5°	6.2	5.0	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2	6.2
60°	5.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
62.5°	3.7	3.7	5.0	3.7	3.7	3.7	3.7	3.7	5.0	5.0	6.2
65°	3.7	3.7	5.0	5.0	3.7	3.7	3.7	3.7	3.7	5.0	6.2
67.5°	3.7	3.7	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0	5.0
70°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0
72.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0
75°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0
77.5°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7	5.0
80°	3.7	3.7	3.7	5.0	3.7	5.0	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	232.7	230.2	226.5	225.2	226.5	225.2	219.0	217.8	215.2	215.2	215.2
5°	220.2	216.4	211.4	208.9	208.9	206.5	200.2	198.9	195.2	195.2	193.9
7.5°	205.2	200.2	193.9	191.4	191.4	188.9	182.7	180.1	177.6	177.6	176.4
10°	187.7	181.4	175.1	173.9	172.7	168.9	165.1	163.8	160.1	161.4	160.1
12.5°	167.7	162.6	157.6	155.1	155.1	151.4	148.9	147.6	146.3	146.3	146.3
15°	148.9	142.6	137.6	136.4	136.4	135.1	132.7	132.7	130.1	132.7	132.7
17.5°	127.6	122.6	121.4	118.9	120.1	118.9	116.4	117.6	117.6	118.9	120.1
20°	107.6	103.8	102.6	101.4	102.6	102.6	101.4	102.6	103.8	107.6	110.1
22.5°	90.1	87.6	87.6	86.3	87.6	88.8	87.6	90.1	92.5	95.0	98.9
25°	75.0	73.8	73.8	73.8	75.0	76.3	77.5	80.1	81.4	85.1	87.6
27.5°	61.4	61.4	61.4	62.6	63.8	65.1	66.3	70.1	71.3	75.0	77.5
30°	51.3	50.1	51.3	52.5	53.8	56.3	57.5	60.0	61.4	65.1	67.6
32.5°	41.2	42.5	43.8	45.1	46.3	47.6	48.8	51.3	53.8	56.3	58.8
35°	35.0	35.0	36.3	37.5	38.8	41.2	42.5	43.8	46.3	48.8	50.1
37.5°	28.8	30.1	31.3	32.5	33.8	35.0	36.3	37.5	38.8	41.2	43.8
40°	23.7	25.0	26.3	27.6	27.6	30.1	30.1	32.5	33.8	36.3	38.8
42.5°	20.0	21.2	22.5	23.7	23.7	25.0	26.3	27.6	28.8	31.3	33.8
45°	16.3	17.5	18.8	20.0	20.0	21.2	22.5	23.7	25.0	27.6	28.8
47.5°	13.8	15.0	16.3	17.5	17.5	18.8	20.0	21.2	21.2	23.7	25.0
50°	11.3	12.5	13.8	15.0	15.0	16.3	17.5	18.8	18.8	20.0	21.2
52.5°	8.8	10.1	12.5	12.5	13.8	15.0	15.0	16.3	16.3	17.5	18.8
55°	8.8	10.1	11.3	11.3	12.5	13.8	13.8	15.0	15.0	15.0	16.3
57.5°	7.5	8.8	10.1	11.3	11.3	12.5	12.5	12.5	12.5	13.8	13.8
60°	7.5	8.8	8.8	10.1	10.1	11.3	11.3	11.3	11.3	12.5	12.5
62.5°	7.5	7.5	8.8	8.8	10.1	10.1	10.1	11.3	11.3	11.3	11.3
65°	6.2	7.5	8.8	8.8	8.8	10.1	10.1	10.1	10.1	10.1	10.1
67.5°	6.2	7.5	7.5	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
70°	6.2	6.2	7.5	7.5	7.5	8.8	8.8	8.8	7.5	8.8	7.5
72.5°	5.0	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
75°	5.0	6.2	6.2	6.2	6.2	7.5	7.5	6.2	6.2	6.2	6.2
77.5°	5.0	5.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.0
80°	5.0	5.0	5.0	5.0	6.2	6.2	5.0	5.0	5.0	5.0	5.0
82.5°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7
85°	3.7	3.7	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7	2.5
87.5°	3.7	3.7	3.7	5.0	3.7	3.7	3.7	3.7	2.5	2.5	2.5
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: P1212300

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQA1H-LSF-20 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	211.4	210.2	211.4	210.2	210.2	211.4	207.7	210.2
5°	191.4	188.9	190.2	188.9	187.7	188.9	186.4	188.9
7.5°	173.9	172.7	172.7	172.7	171.4	172.7	170.2	172.7
10°	158.9	157.6	157.6	157.6	157.6	158.9	156.4	158.9
12.5°	143.8	143.8	145.1	143.8	145.1	146.3	143.8	146.3
15°	131.4	132.7	133.9	133.9	135.1	136.4	135.1	137.6
17.5°	121.4	122.6	125.1	125.1	126.3	128.8	127.6	130.1
20°	111.3	112.5	115.1	115.1	116.4	118.9	117.6	120.1
22.5°	100.1	102.6	103.8	105.1	106.3	108.8	107.6	110.1
25°	88.8	92.5	93.8	95.0	96.4	98.9	98.9	101.4
27.5°	80.1	82.6	83.8	85.1	87.6	90.1	90.1	91.3
30°	70.1	72.5	75.0	76.3	77.5	80.1	80.1	82.6
32.5°	61.4	63.8	65.1	66.3	68.8	71.3	72.5	73.8
35°	52.5	56.3	57.5	60.0	61.4	65.1	65.1	66.3
37.5°	46.3	48.8	51.3	52.5	55.0	57.5	57.5	60.0
40°	41.2	43.8	45.1	46.3	48.8	51.3	51.3	52.5
42.5°	35.0	38.8	40.0	41.2	42.5	45.1	46.3	47.6
45°	31.3	32.5	33.8	35.0	36.3	38.8	38.8	40.0
47.5°	26.3	27.6	28.8	30.1	31.3	32.5	33.8	35.0
50°	22.5	23.7	25.0	25.0	26.3	28.8	28.8	30.1
52.5°	18.8	20.0	21.2	21.2	22.5	25.0	25.0	26.3
55°	16.3	17.5	18.8	18.8	20.0	21.2	21.2	22.5
57.5°	15.0	15.0	16.3	16.3	17.5	17.5	18.8	18.8
60°	12.5	13.8	13.8	13.8	15.0	15.0	15.0	15.0
62.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	12.5
65°	10.1	10.1	10.1	10.1	10.1	10.1	8.8	10.1
67.5°	8.8	8.8	8.8	8.8	7.5	7.5	7.5	7.5
70°	7.5	7.5	7.5	7.5	7.5	6.2	6.2	6.2
72.5°	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0
75°	6.2	6.2	5.0	5.0	5.0	5.0	5.0	3.7
77.5°	5.0	5.0	5.0	5.0	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5
82.5°	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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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