

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: P1212256

Luminaire Tested: **LDSQA4A25930D010TE LAR35FL 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26804)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25930D010TE LAR35FL 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

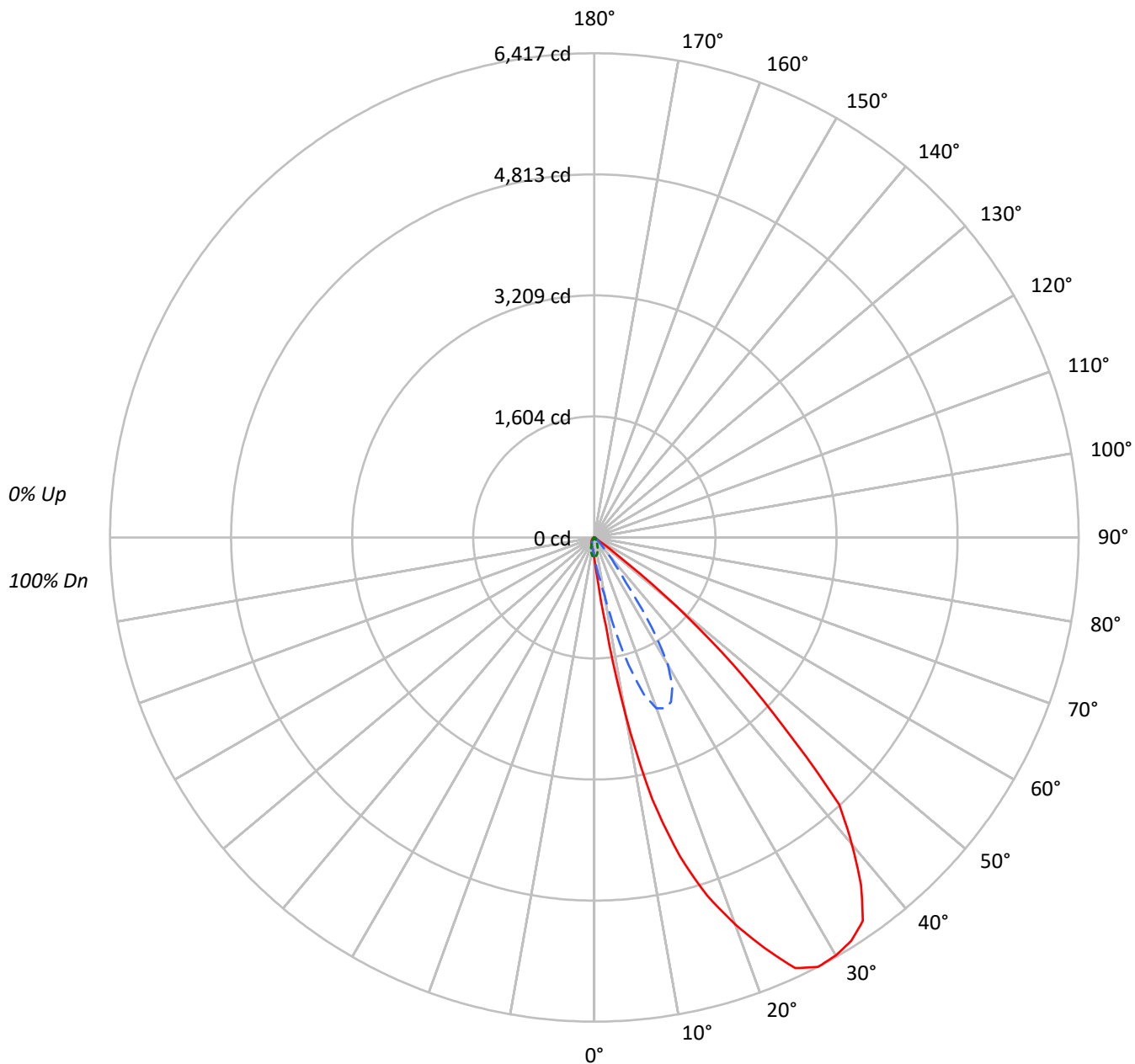
Lumens per Lamp: N/A
Luminaire Lumens: 2137.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.61 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1212256

CATALOG NUMBER: LDSQA4A25930D010TE LAR35FL 4LSQAL1H 30°

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25604	25604	25604
5°	60000	24166	16892
10°	237052	21238	14087
15°	438721	17000	12346
20°	562546	12371	11175
25°	673056	8786	9898
30°	715671	5772	8714
35°	733468	3489	7592
40°	671411	2264	6525
45°	484482	1589	5343
50°	211508	1266	4446
55°	14593	1064	3733
60°	2654	1008	3061
65°	963	963	2178
70°	878	1190	1473
75°	786	1572	1572
80°	0	2343	1729
85°	0	4668	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.8
10°-20°	302.5	14.2
20°-30°	633.3	29.6
30°-40°	704.9	33.0
40°-50°	404.6	18.9
50°-60°	40.4	1.9
60°-70°	6.3	0.3
70°-80°	4.0	0.2
80°-90°	2.5	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°	974.3	45.6
0°-40°	1679.2	78.6
0°-60°	2124.3	99.4
0°-90°	2137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	264	264	264	264	264	
5°	617	425	248	181	174	113
15°	4374	1747	170	119	123	1237
25°	6297	2404	82	73	93	2851
35°	6202	734	30	42	64	3787
45°	3536	88	12	23	39	2700
55°	86	13	6	14	22	258
65°	4	3	4	8	10	5
75°	2	2	4	5	4	2
85°	0	2	4	3	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°	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3
2.5°	394.8	386.4	377.9	372.7	367.4	374.8	369.5	367.4	352.7	345.3	339.0
5°	617.0	601.2	578.0	559.1	540.0	544.3	529.6	511.6	474.8	448.4	425.4
7.5°	1190.7	1151.8	1080.2	1010.7	941.2	928.6	882.2	802.2	699.1	621.2	553.8
10°	2409.8	2291.9	2160.4	2018.2	1851.8	1805.6	1690.8	1473.9	1237.0	966.5	770.6
12.5°	3557.4	3503.7	3349.0	3164.7	2984.6	2874.2	2755.2	2397.3	2021.3	1585.5	1221.2
15°	4374.4	4341.8	4205.8	4038.5	3844.8	3773.2	3628.0	3271.0	2796.2	2275.1	1746.6
17.5°	4979.8	4923.9	4781.8	4599.7	4370.2	4309.0	4135.4	3780.6	3287.9	2764.6	2178.2
20°	5456.7	5421.8	5237.7	5018.7	4743.9	4670.2	4467.0	4097.5	3561.6	3005.8	2408.8
22.5°	5885.2	5826.2	5599.7	5338.8	5025.0	4946.0	4719.6	4314.4	3738.4	3119.4	2449.8
25°	6296.7	6207.2	5932.5	5590.4	5221.9	5114.5	4866.0	4436.4	3803.7	3128.9	2403.5
27.5°	6416.7	6371.4	6117.8	5719.9	5293.4	5172.4	4913.3	4463.9	3779.6	3042.5	2237.2
30°	6397.8	6359.9	6148.3	5732.4	5280.8	5153.4	4890.2	4379.6	3638.4	2817.3	1943.4
32.5°	6337.8	6323.0	6067.3	5623.0	5162.9	5023.9	4739.7	4170.1	3374.2	2474.1	1420.3
35°	6202.0	6144.1	5825.1	5407.1	4965.0	4812.3	4491.3	3870.1	3025.7	1801.3	733.7
37.5°	5804.0	5758.8	5507.1	5140.7	4710.1	4514.4	4175.3	3482.7	2342.5	1024.4	439.1
40°	5309.2	5287.1	5089.2	4761.8	4301.7	4080.6	3712.1	2849.9	1429.6	582.2	289.6
42.5°	4801.8	4795.4	4583.9	4241.7	3742.7	3488.9	3106.7	1922.4	760.1	351.6	167.4
45°	3536.3	3574.2	3426.9	3221.5	2840.4	2656.2	2160.4	990.7	438.0	194.8	88.4
47.5°	2480.3	2438.2	2177.2	1818.2	1469.7	1244.4	941.2	468.5	233.7	102.1	50.5
50°	1403.4	1410.8	1174.9	950.7	623.3	493.7	374.8	235.8	112.7	53.7	30.5
52.5°	366.4	383.2	330.5	284.2	242.1	196.8	159.0	102.1	53.7	31.6	19.9
55°	86.4	89.5	83.2	77.9	73.7	65.2	57.9	44.2	29.5	19.9	12.7
57.5°	30.5	31.6	30.5	30.5	29.5	28.5	26.3	23.2	17.9	12.7	8.4
60°	13.7	14.7	13.7	14.7	14.7	14.7	14.7	14.7	10.6	7.3	5.2
62.5°	6.3	6.3	6.3	6.3	7.3	7.3	8.4	8.4	6.3	5.2	4.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.1
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
80°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
82.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.1	2.1	2.1
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°	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3
2.5°	327.4	326.4	314.7	306.4	302.1	295.9	288.4	278.0	266.3	255.8	251.6
5°	398.0	384.3	360.0	340.1	330.5	321.1	304.3	285.3	267.4	248.5	239.0
7.5°	489.6	449.5	402.2	365.4	349.6	333.7	309.5	283.2	259.0	233.7	220.1
10°	614.8	522.2	440.1	381.2	357.9	336.9	302.1	269.5	243.2	215.9	197.9
12.5°	879.1	649.6	480.1	388.5	357.9	330.5	288.4	250.6	221.1	192.7	175.8
15°	1266.5	876.9	567.4	395.9	350.6	315.8	267.4	226.3	194.8	169.5	153.7
17.5°	1579.1	1086.4	676.0	414.8	341.1	295.9	240.0	196.8	167.4	144.3	131.6
20°	1737.1	1174.9	725.4	417.9	317.9	264.3	207.4	166.3	140.0	120.0	109.5
22.5°	1733.9	1146.4	681.2	366.4	279.0	228.4	174.8	136.9	115.8	100.0	91.6
25°	1624.4	1014.9	568.5	292.7	225.3	189.5	142.1	110.5	93.7	82.2	74.7
27.5°	1419.2	824.4	424.3	216.9	175.8	149.5	110.5	88.4	74.7	66.3	61.1
30°	1113.8	551.6	267.4	161.1	133.7	112.7	85.3	68.5	59.0	51.6	48.4
32.5°	613.8	287.4	180.0	117.9	98.0	82.2	63.1	49.5	43.2	38.0	36.8
35°	339.0	203.2	128.5	78.9	65.2	55.8	43.2	35.8	31.6	29.5	29.5
37.5°	240.0	130.6	76.9	49.5	42.1	36.8	29.5	25.3	24.2	23.2	23.2
40°	144.3	76.9	46.3	32.6	28.5	25.3	22.1	18.9	18.9	17.9	18.9
42.5°	78.9	46.3	31.6	23.2	19.9	18.9	15.8	14.7	14.7	14.7	15.8
45°	47.3	30.5	22.1	16.8	14.7	12.7	11.6	10.6	11.6	11.6	12.7
47.5°	30.5	22.1	14.7	10.6	9.5	8.4	7.3	8.4	8.4	9.5	10.6
50°	21.0	13.7	9.5	6.3	6.3	5.2	6.3	6.3	7.3	8.4	9.5
52.5°	13.7	9.5	6.3	5.2	4.2	4.2	4.2	5.2	6.3	7.3	8.4
55°	8.4	6.3	5.2	4.2	4.2	4.2	4.2	4.2	5.2	6.3	7.3
57.5°	6.3	5.2	4.2	3.1	3.1	3.1	4.2	4.2	5.2	5.2	6.3
60°	4.2	4.2	3.1	3.1	3.1	3.1	3.1	4.2	4.2	5.2	6.3
62.5°	4.2	4.2	3.1	3.1	3.1	3.1	4.2	4.2	4.2	5.2	5.2
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	5.2
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	5.2
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	5.2
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2
77.5°	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2
82.5°	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2
85°	2.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2
87.5°	2.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2
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°	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3
2.5°	246.4	239.0	232.7	234.8	230.6	223.2	221.1	215.9	209.5	208.4	208.4
5°	228.4	216.9	207.4	206.3	202.2	193.7	191.6	186.4	181.0	180.0	179.0
7.5°	206.3	193.7	185.3	183.2	180.0	172.7	171.7	166.3	163.2	161.1	161.1
10°	184.2	172.7	165.3	164.2	162.2	155.9	154.7	150.5	147.4	146.4	145.3
12.5°	163.2	153.7	147.4	146.4	144.3	138.9	137.9	134.8	132.6	131.6	131.6
15°	143.2	134.8	129.5	128.5	127.4	122.1	122.1	120.0	119.0	119.0	120.0
17.5°	123.1	115.8	111.6	110.5	110.5	106.3	107.4	106.3	106.3	106.3	108.4
20°	103.2	96.9	93.7	94.7	92.6	91.6	92.6	92.6	92.6	94.7	98.0
22.5°	86.4	81.0	77.9	78.9	78.9	77.9	78.9	80.0	82.2	85.3	88.4
25°	70.6	66.3	65.2	66.3	66.3	66.3	68.5	70.6	72.6	75.8	78.9
27.5°	56.8	53.7	53.7	54.8	55.8	55.8	59.0	61.1	64.2	67.4	70.6
30°	45.3	44.2	44.2	46.3	46.3	47.3	51.6	53.7	55.8	59.0	62.1
32.5°	35.8	35.8	36.8	39.0	39.0	41.1	44.2	46.3	48.4	51.6	54.8
35°	29.5	30.5	31.6	32.6	33.7	34.7	38.0	40.0	42.1	45.3	47.3
37.5°	24.2	25.3	26.3	28.5	28.5	29.5	32.6	34.7	35.8	39.0	42.1
40°	19.9	21.0	22.1	24.2	24.2	25.3	28.5	29.5	30.5	33.7	36.8
42.5°	16.8	17.9	18.9	19.9	21.0	22.1	24.2	25.3	27.4	29.5	31.6
45°	13.7	14.7	15.8	16.8	17.9	18.9	19.9	22.1	23.2	25.3	27.4
47.5°	11.6	12.7	13.7	14.7	15.8	15.8	17.9	18.9	19.9	22.1	24.2
50°	10.6	11.6	12.7	12.7	13.7	14.7	15.8	16.8	17.9	18.9	21.0
52.5°	8.4	9.5	10.6	11.6	11.6	12.7	13.7	14.7	15.8	16.8	17.9
55°	8.4	8.4	9.5	10.6	10.6	11.6	12.7	13.7	13.7	14.7	15.8
57.5°	7.3	8.4	8.4	9.5	9.5	10.6	11.6	11.6	12.7	12.7	13.7
60°	6.3	7.3	8.4	8.4	8.4	9.5	9.5	10.6	10.6	11.6	11.6
62.5°	6.3	7.3	7.3	8.4	8.4	8.4	9.5	9.5	9.5	10.6	10.6
65°	6.3	6.3	7.3	7.3	7.3	7.3	8.4	8.4	8.4	9.5	9.5
67.5°	5.2	6.3	6.3	6.3	7.3	7.3	7.3	7.3	7.3	8.4	8.4
70°	5.2	5.2	6.3	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3
72.5°	5.2	5.2	5.2	5.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
75°	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	4.2	4.2	4.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1
85°	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3
2.5°	204.3	202.2	201.1	204.3	200.0	202.2	201.1	202.2
5°	175.8	173.7	172.7	175.8	171.7	173.7	171.7	173.7
7.5°	157.9	156.9	155.9	157.9	154.7	156.9	155.9	156.9
10°	143.2	142.1	141.1	144.3	141.1	143.2	142.1	143.2
12.5°	130.6	130.6	129.5	131.6	129.5	131.6	130.6	131.6
15°	119.0	120.0	119.0	121.0	120.0	122.1	121.0	123.1
17.5°	109.5	110.5	110.5	113.8	112.7	115.8	114.8	115.8
20°	100.0	101.1	102.1	104.2	104.2	107.4	106.3	108.4
22.5°	90.5	92.6	92.6	95.7	95.7	99.0	99.0	100.0
25°	81.0	84.2	85.3	87.4	88.4	91.6	91.6	92.6
27.5°	73.7	75.8	76.9	80.0	81.0	84.2	84.2	86.4
30°	65.2	68.5	69.5	71.6	72.6	75.8	75.8	77.9
32.5°	57.9	60.0	62.1	64.2	65.2	68.5	68.5	70.6
35°	50.5	53.7	54.8	56.8	59.0	62.1	62.1	64.2
37.5°	44.2	47.3	48.4	50.5	52.7	55.8	55.8	57.9
40°	39.0	42.1	43.2	45.3	46.3	50.5	50.5	51.6
42.5°	34.7	36.8	38.0	40.0	41.1	43.2	43.2	45.3
45°	29.5	31.6	32.6	33.7	35.8	38.0	38.0	39.0
47.5°	25.3	27.4	28.5	29.5	30.5	32.6	32.6	34.7
50°	22.1	23.2	24.2	25.3	26.3	28.5	28.5	29.5
52.5°	18.9	19.9	21.0	22.1	23.2	24.2	25.3	26.3
55°	16.8	17.9	17.9	18.9	19.9	21.0	21.0	22.1
57.5°	14.7	15.8	15.8	15.8	16.8	17.9	17.9	18.9
60°	12.7	13.7	13.7	13.7	14.7	14.7	14.7	15.8
62.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
65°	9.5	9.5	9.5	9.5	9.5	9.5	8.4	9.5
67.5°	8.4	8.4	8.4	7.3	7.3	7.3	7.3	7.3
70°	7.3	7.3	7.3	6.3	6.3	6.3	5.2	5.2
72.5°	6.3	6.3	6.3	5.2	5.2	5.2	4.2	4.2
75°	5.2	5.2	5.2	5.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	3.1
80°	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	1.1	1.1
87.5°	2.1	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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Peachtree City, GA 30269

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1121 Highway 74 South

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)