

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: P1219453

Luminaire Tested: **LDSQA4A10950D010TE LAR35FL 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219453
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: LDSQA4A10950D010TE 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 / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

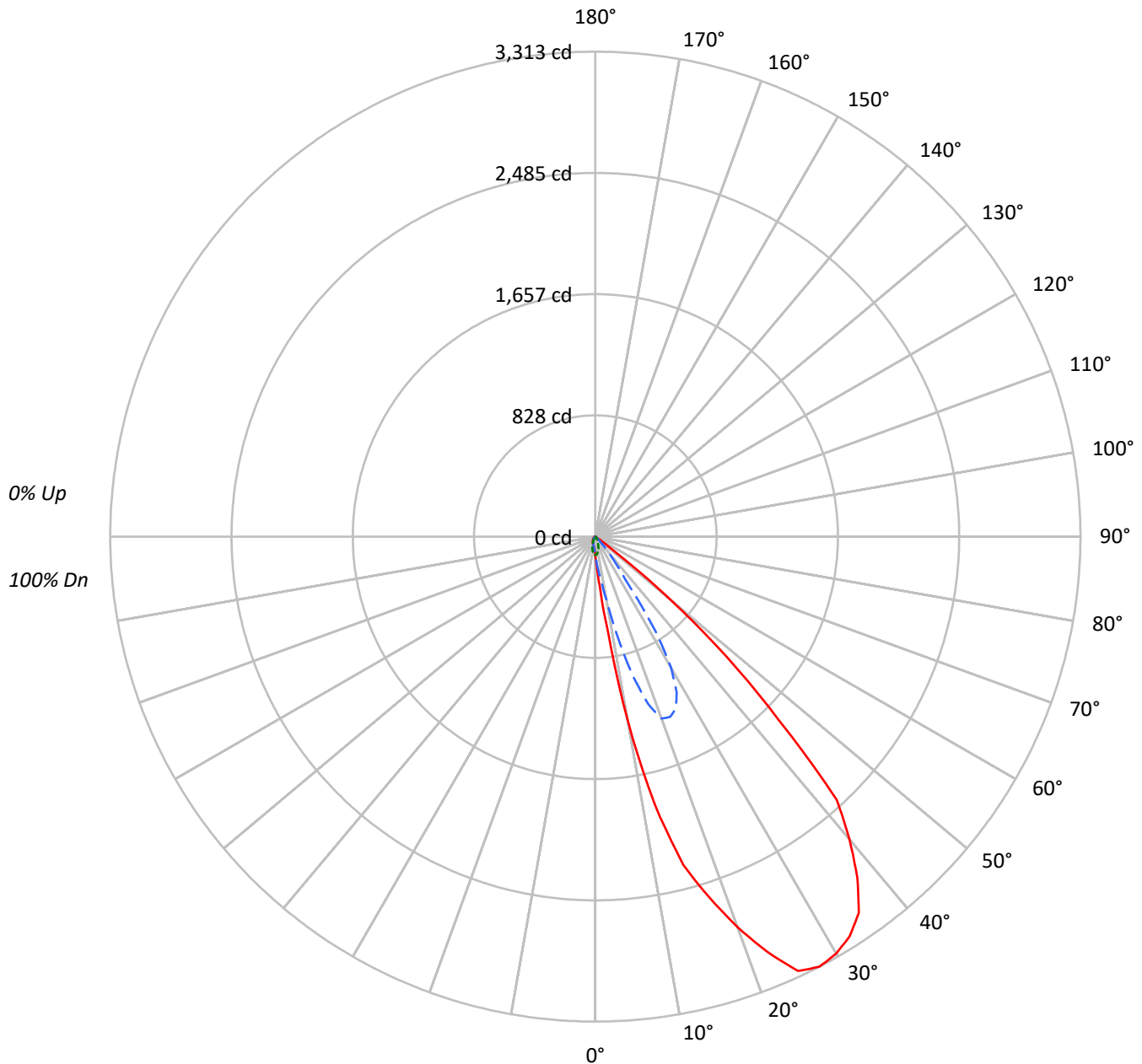
Lumens per Lamp: N/A
Luminaire Lumens: 1085.2 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.59 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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

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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°	12274	12274	12274
5°	32266	11689	7624
10°	126464	10112	6355
15°	232830	7973	5636
20°	292577	5629	5113
25°	349948	3709	4564
30°	368004	2338	4005
35°	370991	1419	3465
40°	341371	948	2947
45°	242878	685	2452
50°	100359	512	2020
55°	5776	507	1757
60°	659	484	1453
65°	229	573	1032
70°	283	566	708
75°	374	749	749
80°	0	1116	837
85°	0	2223	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	1.8
10°-20°	159.0	14.7
20°-30°	328.9	30.3
30°-40°	358.0	33.0
40°-50°	196.3	18.1
50°-60°	17.0	1.6
60°-70°	2.8	0.3
70°-80°	2.0	0.2
80°-90°	1.3	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°	507.8	46.8
0°-40°	865.9	79.8
0°-60°	1079.2	99.4
0°-90°	1085.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	127	127	127	127	127	
5°	332	227	120	83	78	61
15°	2322	976	80	54	56	648
25°	3274	1298	35	33	43	1478
35°	3137	355	12	19	29	1925
45°	1773	36	5	10	18	1353
55°	34	4	3	6	10	117
65°	1	2	2	4	4	1
75°	1	2	2	3	2	1
85°	0	1	2	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°	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
2.5°	199.2	192.2	191.2	192.2	187.2	186.7	187.7	183.8	180.2	176.8	173.8
5°	331.8	317.3	312.8	306.9	292.0	287.0	286.0	270.2	254.7	240.3	226.9
7.5°	644.6	615.8	600.4	570.5	524.9	504.5	493.6	441.5	392.8	348.6	308.4
10°	1285.6	1210.1	1173.4	1117.3	1017.5	968.3	932.6	801.5	672.4	548.2	439.0
12.5°	1876.1	1834.4	1780.3	1750.4	1588.6	1526.5	1467.4	1285.6	1089.0	888.4	689.2
15°	2321.5	2260.4	2202.8	2188.9	2061.8	1989.3	1923.8	1735.6	1501.7	1246.4	975.8
17.5°	2583.3	2539.5	2484.9	2458.6	2309.6	2251.0	2176.5	1994.3	1766.9	1512.6	1198.3
20°	2838.0	2773.4	2696.4	2656.7	2491.8	2424.3	2339.9	2148.2	1907.4	1637.3	1322.9
22.5°	3070.9	2987.4	2878.2	2816.6	2631.4	2556.9	2462.5	2255.0	1994.3	1685.4	1333.3
25°	3273.9	3198.5	3053.0	2945.3	2726.8	2638.8	2529.1	2312.1	2025.6	1681.5	1298.0
27.5°	3312.7	3262.1	3131.4	3006.8	2760.1	2662.2	2548.4	2324.0	2003.7	1626.4	1203.2
30°	3289.8	3235.2	3130.5	3003.3	2746.1	2647.3	2529.1	2273.3	1918.3	1497.7	1029.4
32.5°	3234.7	3187.6	3062.4	2928.3	2677.6	2574.8	2450.1	2154.7	1771.8	1293.1	757.3
35°	3137.0	3065.9	2914.9	2804.7	2568.8	2463.0	2310.6	1996.3	1552.8	929.6	355.1
37.5°	2937.8	2868.7	2760.1	2658.2	2428.3	2303.6	2142.7	1775.8	1151.1	507.0	219.4
40°	2699.4	2639.8	2545.0	2446.2	2209.3	2065.8	1888.5	1388.0	677.4	285.6	135.1
42.5°	2440.3	2378.6	2271.4	2156.1	1897.9	1746.5	1554.8	898.4	357.0	168.4	73.5
45°	1772.8	1717.7	1639.7	1556.8	1407.3	1298.0	1045.8	471.7	197.6	89.3	36.3
47.5°	1213.2	1147.6	1003.6	829.3	672.4	575.0	432.5	204.6	101.3	44.7	21.3
50°	665.9	596.4	522.9	407.2	272.6	223.9	174.3	98.8	45.7	22.4	12.0
52.5°	163.4	144.5	132.1	121.7	96.3	86.9	73.5	41.2	20.9	12.4	8.4
55°	34.2	31.8	30.3	29.7	27.4	26.3	22.9	15.9	11.4	7.9	4.0
57.5°	9.9	9.5	9.9	9.9	9.9	9.5	9.5	7.0	6.4	4.0	2.5
60°	3.4	3.4	3.4	4.0	4.0	4.0	4.5	4.5	3.4	2.5	2.0
62.5°	1.5	1.5	1.5	2.0	2.0	2.5	2.5	2.5	2.0	2.0	1.5
65°	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
77.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5
80°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
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°	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
2.5°	165.4	160.4	154.4	148.0	147.0	143.5	138.5	131.6	129.1	124.2	119.7
5°	207.6	194.2	180.2	167.9	163.9	158.4	149.4	137.1	129.1	120.2	112.7
7.5°	264.2	233.4	205.1	182.7	175.8	166.8	153.0	137.1	125.1	112.7	102.8
10°	339.7	277.1	228.4	192.2	180.8	168.8	150.5	131.1	117.2	102.8	92.4
12.5°	485.2	341.1	250.3	197.2	181.3	165.9	142.5	121.7	105.8	91.4	80.9
15°	689.7	462.8	294.4	200.6	176.3	157.5	130.1	108.8	92.9	79.5	69.5
17.5°	862.6	578.0	353.6	210.6	172.8	146.5	115.8	93.8	78.4	66.6	58.6
20°	947.0	629.6	380.4	212.1	162.9	130.1	98.8	78.0	64.6	54.6	47.6
22.5°	937.0	612.2	355.6	185.7	137.6	109.7	82.0	63.0	51.7	43.7	38.7
25°	870.5	536.8	290.1	142.1	107.2	88.9	64.1	49.2	40.2	34.7	30.8
27.5°	758.8	431.1	211.5	100.4	81.4	67.5	47.6	37.8	30.8	26.8	24.3
30°	584.5	275.6	121.7	72.0	59.1	48.2	35.8	27.4	23.3	20.9	18.8
32.5°	301.4	134.1	80.9	51.7	41.7	34.7	24.9	19.9	17.4	15.9	14.9
35°	165.4	95.4	56.2	33.3	26.8	22.4	16.8	13.9	12.9	12.0	12.0
37.5°	113.7	59.1	31.3	19.9	16.4	13.9	11.4	9.9	9.5	9.5	9.5
40°	65.5	31.3	17.9	12.4	10.4	9.5	7.9	7.5	7.5	7.5	7.9
42.5°	33.8	18.4	12.0	8.4	7.5	6.4	5.5	5.5	5.5	5.9	6.4
45°	19.9	12.4	7.9	5.5	5.0	4.5	4.0	4.0	4.5	5.0	5.5
47.5°	12.4	8.4	5.0	3.4	3.0	3.0	3.0	3.0	3.4	4.0	4.5
50°	8.4	4.5	3.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	4.0
52.5°	4.5	2.5	2.0	1.5	1.5	1.5	2.0	2.0	2.5	3.0	3.4
55°	2.5	2.0	1.5	1.5	1.5	1.5	1.5	2.0	2.5	3.0	3.4
57.5°	2.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5	3.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5	3.0
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5	2.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5	2.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
85°	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
2.5°	117.2	113.3	109.2	109.2	107.2	104.3	103.3	100.4	98.3	97.3	96.3
5°	107.2	101.3	95.9	95.4	92.9	89.3	87.9	84.9	82.9	82.0	81.4
7.5°	95.9	89.9	84.4	83.4	81.4	78.9	77.5	75.0	73.9	73.0	72.5
10°	84.9	78.9	75.0	73.9	72.5	70.5	69.1	67.5	66.6	66.0	66.0
12.5°	73.9	69.5	66.0	65.1	64.1	62.6	61.6	60.6	60.1	60.1	60.1
15°	64.1	60.1	57.1	57.1	56.2	55.1	55.1	54.1	53.7	54.1	54.6
17.5°	54.1	51.2	48.7	48.7	48.2	47.6	47.6	47.6	48.2	48.7	49.6
20°	44.7	42.2	41.2	41.2	40.8	41.2	41.2	41.7	42.2	43.7	45.2
22.5°	36.3	34.7	33.8	34.2	34.2	34.7	35.3	36.3	37.2	38.7	40.2
25°	29.3	28.3	27.8	28.3	28.8	29.3	30.3	31.3	32.8	34.2	36.3
27.5°	23.3	22.9	22.9	23.3	23.8	24.9	26.3	27.4	28.8	30.3	32.2
30°	18.8	18.4	18.8	19.9	20.4	21.3	22.4	23.8	25.4	26.8	28.8
32.5°	14.9	15.4	15.9	16.4	16.8	18.4	19.3	20.4	21.8	23.3	25.4
35°	12.4	12.9	13.4	13.9	14.4	15.4	16.4	17.4	18.8	20.4	22.4
37.5°	9.9	10.4	10.9	12.0	12.4	12.9	14.4	14.9	16.4	17.4	19.3
40°	8.4	8.9	9.5	9.9	10.4	11.4	12.4	12.9	13.9	15.4	16.8
42.5°	7.0	7.5	7.9	8.4	8.9	9.9	10.4	11.4	12.4	13.4	14.4
45°	5.9	6.4	7.0	7.5	7.9	8.4	8.9	9.9	10.4	11.4	12.4
47.5°	5.0	5.5	6.4	6.4	7.0	7.5	7.9	8.4	9.5	9.9	10.9
50°	4.5	5.0	5.5	5.9	5.9	6.4	7.0	7.5	7.9	8.4	9.5
52.5°	4.0	4.5	5.0	5.0	5.5	5.9	6.4	6.4	7.0	7.5	7.9
55°	3.4	4.0	4.5	4.5	5.0	5.5	5.5	5.9	6.4	6.4	7.0
57.5°	3.4	3.4	4.0	4.0	4.5	4.5	5.0	5.5	5.5	5.9	6.4
60°	3.0	3.4	3.4	4.0	4.0	4.5	4.5	5.0	5.0	5.5	5.5
62.5°	3.0	3.0	3.4	3.4	4.0	4.0	4.5	4.5	4.5	5.0	5.0
65°	3.0	3.0	3.4	3.4	3.4	4.0	4.0	4.0	4.0	4.5	4.5
67.5°	2.5	3.0	3.0	3.4	3.4	3.4	3.4	3.4	4.0	4.0	4.0
70°	2.5	3.0	3.0	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.0	2.0	2.0	2.0	2.0	2.5	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5
87.5°	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
2.5°	94.8	93.8	94.8	93.8	93.8	91.8	93.4	92.4
5°	80.0	78.9	80.0	79.5	78.4	78.0	78.9	78.4
7.5°	71.6	70.5	71.6	71.6	70.5	70.0	71.0	70.5
10°	65.1	64.6	65.1	65.1	64.6	64.1	65.1	64.6
12.5°	59.6	59.1	60.1	60.1	59.6	59.6	60.6	59.6
15°	54.6	54.6	55.6	55.6	55.6	55.6	56.6	56.2
17.5°	49.6	50.6	51.7	52.1	52.1	52.1	53.1	53.1
20°	45.7	46.7	47.6	48.2	48.7	48.7	49.6	49.6
22.5°	41.2	42.2	43.7	44.2	44.7	45.2	46.2	46.2
25°	37.2	38.3	39.7	40.2	41.2	41.7	42.7	42.7
27.5°	33.3	34.7	35.8	36.7	37.2	38.3	39.2	39.2
30°	29.7	31.3	32.2	33.3	33.8	34.7	35.8	35.8
32.5°	26.3	27.8	28.8	29.7	30.8	31.3	32.8	32.8
35°	23.3	24.3	25.8	26.3	27.4	28.3	29.3	29.3
37.5°	20.4	21.3	22.4	23.3	24.3	24.9	25.8	26.3
40°	17.9	18.8	19.9	20.4	21.3	22.4	22.9	23.3
42.5°	15.4	16.4	17.4	17.9	18.8	19.3	20.4	20.4
45°	13.4	14.4	14.9	15.4	16.4	16.8	17.9	17.9
47.5°	11.4	12.4	12.9	13.4	13.9	14.4	15.4	15.4
50°	9.9	10.4	10.9	11.4	12.0	12.9	13.4	13.4
52.5°	8.4	9.5	9.5	9.9	10.4	10.9	11.4	12.0
55°	7.5	7.9	8.4	8.4	8.9	9.5	9.9	10.4
57.5°	6.4	7.0	7.5	7.5	7.9	7.9	8.4	8.9
60°	5.9	5.9	6.4	6.4	6.4	7.0	7.0	7.5
62.5°	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	4.0	4.0	4.0	4.0	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	3.4	3.0	3.0	3.0	2.5
72.5°	3.0	3.0	3.0	3.0	2.5	2.5	2.0	2.0
75°	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0
77.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5
80°	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0
85°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)