

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: P1212308

Luminaire Tested: **LDSQA4A30930D010TE 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: P1212308
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: LDSQA4A30930D010TE LAR25NF 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

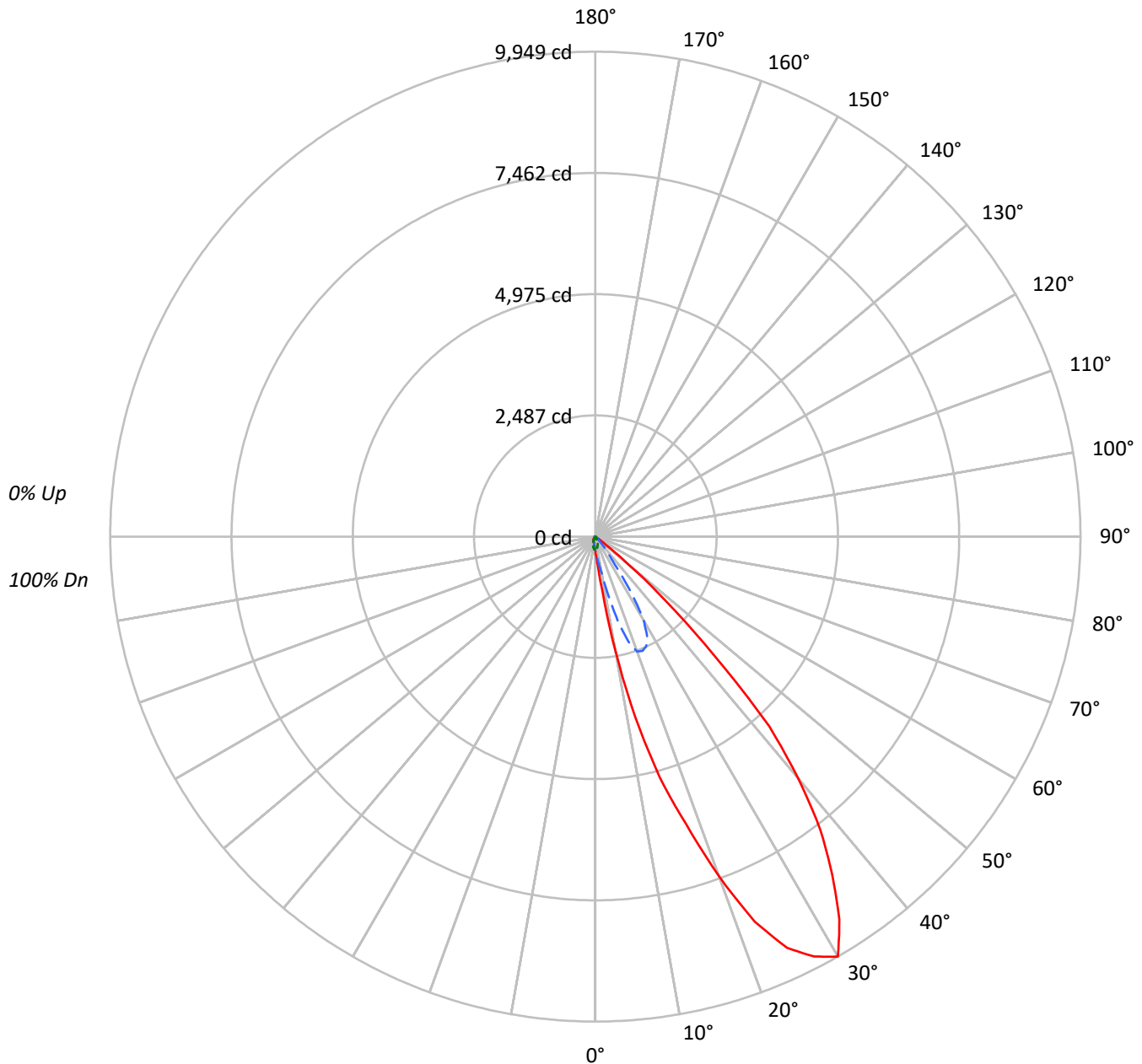
Lumens per Lamp: N/A
Luminaire Lumens: 2491.9 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.61 / 1.19
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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	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°	26912	26912	26912
5°	60234	25303	18127
10°	236186	22153	14273
15°	512727	17942	12416
20°	764896	13278	11216
25°	994881	9364	9759
30°	1112950	6298	8535
35°	1001594	3702	7261
40°	817399	2529	6336
45°	469330	1713	5138
50°	137283	1326	4340
55°	15843	1047	3581
60°	3391	1201	2906
65°	1146	1146	2017
70°	1048	1416	1416
75°	936	1871	1385
80°	0	2789	1395
85°	0	5558	1334

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.6
10°-20°	341.1	13.7
20°-30°	813.8	32.7
30°-40°	858.8	34.5
40°-50°	389.5	15.6
50°-60°	34.2	1.4
60°-70°	7.2	0.3
70°-80°	4.7	0.2
80°-90°	2.9	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°	1194.7	47.9
0°-40°	2053.6	82.4
0°-60°	2477.2	99.4
0°-90°	2491.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	278	278	278	278	278	
5°	619	454	260	200	186	111
15°	5112	1798	179	123	124	1487
25°	9308	2475	88	75	91	4228
35°	8469	683	31	42	61	5230
45°	3426	96	12	24	38	2716
55°	94	15	6	14	21	187
65°	5	5	5	10	9	7
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°	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8
2.5°	412.9	415.4	404.1	405.3	394.1	399.1	395.4	385.3	377.9	365.3	360.4
5°	619.4	623.1	598.1	590.5	564.3	564.3	553.0	526.7	503.0	474.1	454.1
7.5°	1132.3	1147.3	1072.3	1016.0	933.4	913.4	874.6	784.4	710.7	635.6	579.2
10°	2401.0	2373.5	2218.3	2090.7	1878.1	1799.2	1694.1	1435.1	1197.3	961.0	775.7
12.5°	3786.1	3874.9	3575.9	3472.0	3135.4	3064.1	2840.1	2417.3	2015.7	1597.7	1227.4
15°	5112.3	5138.6	4877.1	4708.1	4297.7	4205.2	3929.9	3433.2	2892.7	2309.7	1797.9
17.5°	6177.0	6282.1	5898.0	5716.6	5183.6	5034.7	4710.6	4106.3	3504.6	2867.7	2260.9
20°	7419.5	7447.0	6991.5	6642.5	5945.6	5719.2	5331.2	4581.8	3864.8	3137.9	2511.1
22.5°	8549.2	8543.0	7957.5	7464.6	6582.5	6312.2	5832.9	4944.7	4111.4	3258.0	2534.9
25°	9307.5	9327.5	8700.7	8117.6	7035.4	6670.1	6129.5	5133.6	4195.2	3254.3	2474.8
27.5°	9711.6	9691.6	9019.7	8396.6	7201.7	6792.7	6205.8	5139.8	4118.8	3126.7	2294.7
30°	9949.3	9681.6	8964.6	8317.8	7089.2	6668.8	6071.9	4942.2	3864.8	2841.4	1973.1
32.5°	9313.7	9209.8	8585.5	7898.7	6701.2	6284.6	5695.3	4521.7	3462.0	2404.8	1413.9
35°	8469.2	8473.0	7863.7	7221.7	6093.2	5730.3	5122.3	4010.0	2970.3	1671.6	683.1
37.5°	7583.3	7595.9	7016.6	6419.8	5415.1	5033.5	4464.2	3427.0	2137.1	850.8	411.7
40°	6463.6	6489.8	5990.6	5511.5	4584.3	4216.5	3708.4	2593.7	1194.9	475.4	279.0
42.5°	5281.2	5313.7	4870.9	4445.4	3657.1	3354.4	2904.0	1606.5	593.0	307.8	163.8
45°	3425.7	3519.5	3190.4	3011.6	2554.9	2374.7	1895.6	819.5	357.9	180.1	96.4
47.5°	1960.5	1961.8	1684.0	1348.8	1106.0	962.2	751.9	372.9	208.9	101.4	58.8
50°	910.9	933.4	739.5	615.6	440.4	372.9	306.6	201.5	110.1	58.8	36.3
52.5°	265.2	280.2	254.0	230.2	195.2	173.9	148.9	98.9	57.5	35.0	22.5
55°	93.8	100.1	93.8	87.6	78.9	71.3	63.8	47.6	32.5	21.2	15.0
57.5°	38.8	40.0	38.8	37.5	35.0	35.0	31.3	26.3	20.0	13.8	10.1
60°	17.5	18.8	17.5	18.8	17.5	17.5	17.5	18.8	12.5	8.8	7.5
62.5°	7.5	8.8	8.8	8.8	8.8	10.1	10.1	8.8	7.5	6.2	5.0
65°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	3.7	3.7	3.7
72.5°	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	3.7	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
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	1.2	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	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	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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CATALOG NUMBER: LDSQA4A30930D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8
2.5°	354.0	342.8	325.3	314.0	309.1	301.5	296.5	284.0	279.0	269.1	265.2
5°	435.4	412.9	386.6	365.3	351.5	336.5	314.0	289.1	276.5	260.2	251.5
7.5°	528.0	479.2	432.9	395.4	377.9	357.9	329.1	290.3	266.5	245.2	232.7
10°	645.6	545.6	472.9	412.9	386.6	360.4	325.3	280.2	250.2	225.2	211.4
12.5°	920.8	658.1	509.2	422.8	389.1	356.6	312.8	266.5	231.4	202.7	187.7
15°	1325.0	919.6	606.8	431.7	380.4	340.4	290.3	244.0	207.7	178.9	163.8
17.5°	1682.8	1172.4	742.0	464.2	377.9	321.6	262.7	215.2	180.1	152.7	140.1
20°	1878.1	1304.9	832.0	484.2	366.6	292.8	231.4	186.4	152.7	128.8	117.6
22.5°	1881.8	1297.5	799.5	440.4	322.8	254.0	200.2	157.6	127.6	106.3	97.6
25°	1769.1	1157.3	666.9	346.6	264.0	215.2	167.7	131.4	103.8	87.6	80.1
27.5°	1558.9	940.8	490.4	250.2	206.5	173.9	135.1	105.1	81.4	71.3	65.1
30°	1226.2	613.0	286.6	186.4	160.1	133.9	102.6	73.8	63.8	56.3	51.3
32.5°	658.1	297.8	200.2	137.6	113.9	93.8	67.6	53.8	46.3	41.2	40.0
35°	344.1	217.8	133.9	87.6	72.5	61.4	46.3	37.5	33.8	31.3	31.3
37.5°	246.5	136.4	85.1	56.3	47.6	38.8	32.5	27.6	25.0	25.0	25.0
40°	146.3	83.8	51.3	36.3	31.3	27.6	23.7	20.0	20.0	20.0	20.0
42.5°	88.8	52.5	36.3	25.0	22.5	20.0	17.5	16.3	15.0	15.0	16.3
45°	55.0	36.3	23.7	18.8	17.5	15.0	13.8	12.5	12.5	12.5	13.8
47.5°	35.0	26.3	17.5	12.5	11.3	10.1	8.8	8.8	10.1	10.1	11.3
50°	26.3	16.3	11.3	8.8	7.5	7.5	6.2	7.5	7.5	8.8	10.1
52.5°	15.0	10.1	7.5	6.2	6.2	5.0	5.0	6.2	6.2	7.5	8.8
55°	10.1	7.5	6.2	5.0	5.0	5.0	5.0	5.0	6.2	6.2	7.5
57.5°	7.5	6.2	5.0	5.0	5.0	3.7	5.0	5.0	5.0	6.2	7.5
60°	6.2	5.0	5.0	5.0	5.0	3.7	3.7	5.0	5.0	6.2	6.2
62.5°	5.0	5.0	5.0	5.0	5.0	3.7	5.0	5.0	5.0	5.0	6.2
65°	3.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2
67.5°	3.7	3.7	5.0	5.0	5.0	3.7	5.0	5.0	5.0	5.0	6.2
70°	3.7	3.7	3.7	5.0	5.0	3.7	5.0	5.0	5.0	5.0	5.0
72.5°	3.7	3.7	3.7	5.0	5.0	3.7	5.0	5.0	5.0	5.0	5.0
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0
77.5°	3.7	3.7	3.7	3.7	5.0	3.7	5.0	5.0	5.0	5.0	5.0
80°	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0
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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CATALOG NUMBER: LDSQA4A30930D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8
2.5°	255.3	251.5	244.0	242.7	241.5	236.5	232.7	228.9	228.9	225.2	222.7
5°	236.5	230.2	221.5	217.8	216.5	210.2	205.2	201.5	200.2	196.4	192.7
7.5°	216.5	208.9	199.0	195.2	193.9	187.7	182.7	178.9	176.4	172.7	170.2
10°	195.2	186.4	177.6	173.9	172.7	166.4	162.6	158.9	156.4	153.9	151.4
12.5°	172.7	165.2	156.4	152.7	151.4	146.3	142.6	140.1	138.9	136.4	135.1
15°	150.2	142.6	135.1	132.7	131.4	127.6	125.1	123.8	122.6	122.6	121.4
17.5°	127.6	121.4	115.1	113.9	112.7	110.1	108.8	107.6	108.8	108.8	110.1
20°	106.3	101.4	96.4	96.4	95.0	93.8	93.8	93.8	96.4	97.6	100.1
22.5°	87.6	83.8	80.1	80.1	80.1	80.1	80.1	82.6	85.1	87.6	88.8
25°	72.5	68.8	67.6	67.6	67.6	68.8	70.1	72.5	75.0	77.5	80.1
27.5°	58.8	56.3	56.3	56.3	57.5	58.8	60.0	62.6	66.3	68.8	71.3
30°	47.6	46.3	46.3	47.6	48.8	50.1	52.5	55.0	57.5	60.0	62.6
32.5°	37.5	38.8	38.8	40.0	41.2	42.5	45.1	47.6	50.1	52.5	53.8
35°	31.3	31.3	32.5	33.8	35.0	36.3	38.8	41.2	42.5	45.1	47.6
37.5°	25.0	26.3	27.6	28.8	30.1	31.3	32.5	35.0	36.3	38.8	41.2
40°	21.2	22.5	23.7	25.0	25.0	27.6	27.6	30.1	31.3	33.8	36.3
42.5°	17.5	18.8	20.0	21.2	21.2	22.5	23.7	25.0	27.6	28.8	31.3
45°	13.8	15.0	16.3	17.5	18.8	20.0	20.0	22.5	23.7	25.0	27.6
47.5°	12.5	13.8	15.0	15.0	16.3	17.5	17.5	20.0	21.2	22.5	23.7
50°	10.1	11.3	12.5	13.8	13.8	15.0	16.3	17.5	18.8	20.0	20.0
52.5°	8.8	10.1	11.3	11.3	12.5	13.8	13.8	15.0	16.3	16.3	17.5
55°	8.8	10.1	10.1	11.3	11.3	12.5	12.5	13.8	13.8	15.0	15.0
57.5°	7.5	8.8	8.8	10.1	10.1	11.3	11.3	12.5	12.5	12.5	13.8
60°	7.5	7.5	8.8	8.8	10.1	10.1	10.1	11.3	11.3	11.3	12.5
62.5°	6.2	7.5	7.5	8.8	8.8	8.8	10.1	10.1	10.1	11.3	11.3
65°	6.2	7.5	7.5	8.8	8.8	8.8	8.8	8.8	10.1	10.1	10.1
67.5°	6.2	6.2	7.5	7.5	7.5	7.5	8.8	8.8	8.8	8.8	8.8
70°	6.2	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
72.5°	5.0	6.2	6.2	6.2	6.2	7.5	7.5	7.5	7.5	7.5	6.2
75°	5.0	5.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	5.0	5.0	5.0	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.7	3.7	3.7
85°	5.0	3.7	5.0	5.0	5.0	3.7	3.7	3.7	3.7	3.7	2.5
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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: P1212308

CATALOG NUMBER: LDSQA4A30930D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	277.8	277.8	277.8	277.8	277.8	277.8	277.8	277.8
2.5°	220.2	217.8	219.0	219.0	216.5	215.2	215.2	216.5
5°	190.2	187.7	188.9	188.9	186.4	185.2	185.2	186.4
7.5°	167.7	165.2	166.4	166.4	163.8	163.8	163.8	163.8
10°	150.2	148.9	148.9	148.9	146.3	147.7	146.3	145.1
12.5°	133.9	133.9	133.9	133.9	132.7	133.9	132.7	132.7
15°	121.4	121.4	122.6	122.6	122.6	123.8	123.8	123.8
17.5°	111.3	112.7	113.9	115.1	115.1	116.4	116.4	116.4
20°	101.4	103.8	105.1	106.3	106.3	108.8	107.6	108.8
22.5°	91.3	93.8	95.0	96.4	97.6	98.9	98.9	100.1
25°	82.6	85.1	86.3	87.6	88.8	91.3	91.3	91.3
27.5°	73.8	76.3	77.5	80.1	81.4	83.8	83.8	83.8
30°	65.1	67.6	68.8	70.1	72.5	75.0	75.0	76.3
32.5°	56.3	60.0	61.4	62.6	65.1	67.6	68.8	68.8
35°	50.1	52.5	53.8	56.3	57.5	61.4	61.4	61.4
37.5°	43.8	46.3	48.8	50.1	51.3	53.8	55.0	56.3
40°	38.8	41.2	42.5	43.8	46.3	48.8	50.1	50.1
42.5°	33.8	36.3	37.5	38.8	40.0	42.5	42.5	42.5
45°	30.1	31.3	32.5	33.8	35.0	36.3	37.5	37.5
47.5°	25.0	27.6	27.6	28.8	30.1	32.5	32.5	33.8
50°	21.2	23.7	23.7	25.0	26.3	27.6	28.8	28.8
52.5°	18.8	20.0	21.2	21.2	22.5	23.7	25.0	25.0
55°	16.3	17.5	17.5	18.8	18.8	20.0	21.2	21.2
57.5°	13.8	15.0	16.3	16.3	16.3	17.5	17.5	18.8
60°	12.5	13.8	13.8	13.8	13.8	15.0	15.0	15.0
62.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
65°	10.1	10.1	10.1	10.1	8.8	8.8	8.8	8.8
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	6.2	6.2	6.2	5.0
72.5°	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0
75°	6.2	5.0	5.0	5.0	5.0	5.0	3.7	3.7
77.5°	5.0	5.0	5.0	3.7	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	2.5	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°	2.5	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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Peachtree City, GA 30269

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Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

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