

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: P1219547

Luminaire Tested: **LDSQA4A25950D010TE LAR25NF 4LSQA1H 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: P1219547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26800)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25950D010TE LAR25NF 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

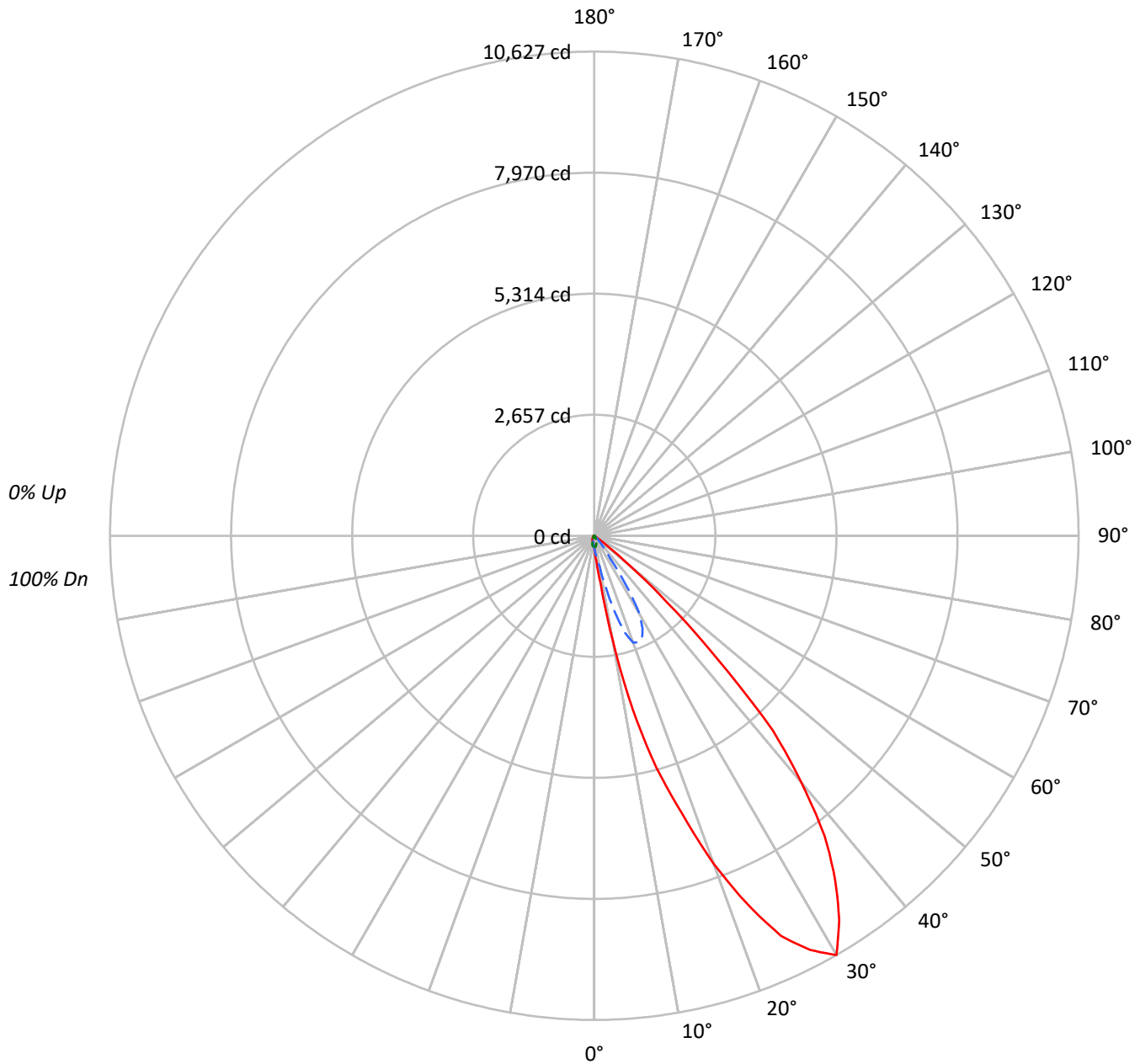
Lumens per Lamp: N/A
Luminaire Lumens: 2560.1 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 2.38 / 0.59 / 1.18
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					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	84	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	82	76	72	80	75	71	78	73	70	76	72	69	67		
5	87	77	70	64	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	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	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25895	25895	25895
5°	57326	24496	17212
10°	229458	21277	14382
15°	528914	16919	12627
20°	789556	12010	11268
25°	1035584	8006	10026
30°	1188770	5056	8770
35°	1089983	3217	7592
40°	893833	2087	6475
45°	518198	1466	5206
50°	146853	1085	4295
55°	13461	996	3598
60°	2073	1143	2984
65°	550	1100	2201
70°	680	1360	1671
75°	898	1797	1797
80°	0	2678	1339
85°	0	5335	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.5
10°-20°	340.5	13.3
20°-30°	829.5	32.4
30°-40°	899.0	35.1
40°-50°	407.3	15.9
50°-60°	31.5	1.2
60°-70°	6.5	0.3
70°-80°	4.8	0.2
80°-90°	3.0	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°	1207.9	47.2
0°-40°	2106.9	82.3
0°-60°	2545.7	99.4
0°-90°	2560.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	267	267	267	267	267	
5°	590	435	252	190	177	106
15°	5274	1725	169	122	126	1533
25°	9688	2478	75	74	94	4416
35°	9217	630	27	43	64	5669
45°	3782	80	11	24	38	2986
55°	80	11	6	14	21	182
65°	2	4	5	10	10	4
75°	2	4	5	7	5	2
85°	0	4	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°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
2.5°	400.4	393.3	396.9	387.4	381.5	376.7	379.1	376.7	361.2	357.8	345.8
5°	589.5	578.8	578.8	558.5	537.1	524.1	524.1	508.7	475.3	459.9	434.9
7.5°	1056.4	1034.9	1017.1	954.2	872.1	826.0	814.0	748.7	664.4	610.8	547.8
10°	2332.6	2243.5	2180.6	2016.6	1796.7	1660.0	1601.9	1376.1	1107.4	905.5	722.5
12.5°	3922.7	3801.5	3691.0	3422.4	3106.3	2891.2	2775.9	2443.2	1921.5	1548.4	1158.6
15°	5273.7	5143.0	5012.3	4685.5	4351.7	4165.1	3953.5	3512.7	2823.5	2293.5	1725.4
17.5°	6382.5	6308.7	6174.5	5695.6	5275.0	4983.8	4763.9	4187.7	3478.2	2873.3	2230.4
20°	7658.7	7476.9	7236.8	6655.8	6080.6	5715.7	5406.8	4704.5	3884.6	3189.5	2497.9
22.5°	8733.0	8603.4	8258.8	7492.4	6646.3	6335.0	5957.0	5112.2	4146.1	3323.6	2528.8
25°	9688.3	9485.2	9052.6	8141.1	7274.9	6744.9	6281.5	5333.1	4242.3	3333.2	2477.6
27.5°	10248.0	9983.1	9474.4	8481.0	7492.4	6906.4	6393.1	5371.2	4181.6	3207.3	2291.1
30°	10627.1	10099.5	9537.4	8484.6	7423.4	6824.6	6292.1	5179.8	3929.7	2919.7	1977.4
32.5°	10002.0	9696.6	9159.5	8147.2	7047.9	6463.2	5934.4	4765.2	3536.4	2493.1	1376.1
35°	9216.6	8969.5	8502.4	7497.2	6484.6	5933.3	5372.3	4232.8	3024.2	1713.5	629.7
37.5°	8303.9	8110.3	7607.6	6689.1	5797.9	5258.2	4696.2	3607.8	2129.5	849.7	382.6
40°	7068.0	6904.1	6491.9	5753.8	4932.7	4419.4	3901.2	2698.7	1156.3	474.1	249.6
42.5°	5809.8	5671.8	5296.3	4658.2	3936.8	3513.8	3057.5	1644.7	575.1	298.3	139.0
45°	3782.4	3610.2	3408.1	3115.8	2759.3	2499.1	1960.8	793.8	341.0	166.3	79.7
47.5°	2168.6	2054.6	1723.0	1359.5	1103.9	1007.7	733.3	369.6	187.7	96.2	48.8
50°	974.4	900.8	755.8	615.6	445.6	348.2	295.9	185.3	92.7	52.3	33.3
52.5°	240.0	244.8	231.7	203.2	180.6	153.3	133.1	86.7	48.8	32.0	21.3
55°	79.7	80.8	73.7	70.1	64.2	59.4	54.7	39.3	29.6	28.5	10.7
57.5°	28.5	28.5	29.6	27.2	26.1	25.0	23.7	20.2	17.8	10.7	5.9
60°	10.7	10.7	10.7	11.9	11.9	11.9	13.1	11.9	8.3	5.9	4.8
62.5°	4.8	4.8	4.8	4.8	5.9	5.9	7.2	5.9	4.8	4.8	3.5
65°	2.4	2.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5
72.5°	2.4	2.4	2.4	2.4	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	3.5
77.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	2.4	3.5
80°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	2.4	3.5
82.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	2.4	3.5
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	3.5
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°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
2.5°	333.8	326.8	312.5	301.8	293.5	292.3	285.3	273.3	268.5	260.2	253.0
5°	411.1	393.3	370.8	349.4	333.8	325.5	300.7	278.1	265.0	251.9	240.0
7.5°	494.3	454.0	414.8	380.3	358.9	345.8	316.1	279.3	255.4	236.5	221.1
10°	598.9	515.7	448.0	394.5	366.0	348.2	312.5	268.5	238.9	216.3	200.8
12.5°	837.7	610.8	478.9	401.6	366.0	341.0	298.3	254.3	221.1	193.8	177.0
15°	1246.5	853.2	567.9	405.2	354.2	325.5	277.0	230.5	197.3	168.7	153.3
17.5°	1631.6	1123.0	709.4	430.2	347.0	303.1	248.4	203.2	168.7	141.4	128.3
20°	1831.2	1257.3	787.8	449.2	335.1	274.6	215.1	173.5	140.2	116.5	105.8
22.5°	1835.9	1245.3	749.8	405.2	291.2	235.2	184.1	142.6	114.0	93.8	85.5
25°	1723.0	1101.6	616.7	316.1	235.2	197.3	153.3	116.5	89.1	74.9	69.0
27.5°	1510.4	891.3	455.2	228.2	184.1	156.8	120.1	89.1	67.7	58.2	54.7
30°	1168.1	551.4	251.9	168.7	139.0	117.7	86.7	59.4	51.2	45.2	42.8
32.5°	579.9	269.8	178.3	120.1	95.1	74.9	54.7	44.0	39.3	35.6	34.4
35°	314.9	193.8	111.7	72.5	57.0	47.6	36.8	30.9	28.5	27.2	27.2
37.5°	219.9	115.3	67.7	44.0	35.6	32.0	26.1	22.6	21.3	21.3	21.3
40°	121.3	69.0	41.6	28.5	23.7	21.3	17.8	16.5	16.5	16.5	17.8
42.5°	70.1	42.8	28.5	20.2	16.5	15.4	13.1	11.9	13.1	13.1	14.2
45°	45.2	32.0	18.9	14.2	11.9	10.7	9.6	9.6	10.7	10.7	11.9
47.5°	32.0	22.6	13.1	9.6	7.2	7.2	7.2	7.2	8.3	9.6	10.7
50°	18.9	11.9	7.2	5.9	4.8	4.8	4.8	5.9	7.2	7.2	8.3
52.5°	10.7	7.2	4.8	4.8	3.5	3.5	4.8	4.8	5.9	7.2	8.3
55°	5.9	4.8	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9	7.2
57.5°	4.8	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9	5.9
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9	5.9
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	4.8	4.8	5.9
65°	3.5	3.5	3.5	4.8	3.5	4.8	4.8	4.8	4.8	4.8	5.9
67.5°	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.9
70°	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.9
72.5°	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.9
75°	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	3.5	3.5	3.5	3.5	4.8	4.8	4.8	4.8	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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CATALOG NUMBER: LDSQA4A25950D010TE LAR25NF 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
2.5°	250.7	242.4	236.5	234.1	229.3	230.5	226.9	224.5	217.5	217.5	212.8
5°	231.7	221.1	213.9	210.4	205.6	204.5	200.8	197.3	190.1	188.9	185.3
7.5°	211.5	200.8	192.6	188.9	184.1	182.9	178.3	175.9	169.9	168.7	165.2
10°	190.1	178.3	171.1	167.5	162.8	162.8	159.2	156.8	152.2	152.2	149.8
12.5°	167.5	156.8	152.2	147.4	145.0	145.0	142.6	140.2	136.7	137.9	136.7
15°	143.8	135.5	130.7	128.3	127.2	127.2	125.9	124.8	122.5	124.8	122.5
17.5°	121.3	115.3	111.7	110.4	109.3	109.3	109.3	110.4	109.3	111.7	111.7
20°	99.8	95.1	92.7	92.7	91.4	93.8	93.8	96.2	96.2	99.8	101.0
22.5°	82.1	78.4	77.3	77.3	77.3	79.7	80.8	83.2	84.3	87.9	90.3
25°	65.3	64.2	64.2	64.2	65.3	67.7	70.1	72.5	73.7	78.4	79.7
27.5°	53.6	52.3	53.6	53.6	54.7	58.2	60.6	63.0	65.3	69.0	71.3
30°	42.8	42.8	44.0	45.2	46.4	48.8	52.3	54.7	57.0	60.6	63.0
32.5°	34.4	35.6	36.8	38.0	38.0	41.6	44.0	47.6	48.8	52.3	54.7
35°	28.5	29.6	30.9	32.0	32.0	35.6	38.0	40.5	42.8	45.2	47.6
37.5°	22.6	23.7	26.1	27.2	27.2	30.9	32.0	34.4	36.8	39.3	41.6
40°	18.9	20.2	22.6	22.6	23.7	26.1	27.2	29.6	32.0	34.4	36.8
42.5°	15.4	16.5	18.9	20.2	20.2	22.6	23.7	26.1	27.2	29.6	30.9
45°	14.2	14.2	16.5	16.5	17.8	18.9	21.3	22.6	23.7	26.1	27.2
47.5°	11.9	13.1	14.2	15.4	15.4	16.5	17.8	18.9	20.2	22.6	23.7
50°	9.6	10.7	13.1	13.1	13.1	15.4	16.5	17.8	17.8	18.9	20.2
52.5°	9.6	9.6	10.7	11.9	11.9	13.1	14.2	15.4	15.4	16.5	17.8
55°	8.3	8.3	9.6	10.7	10.7	11.9	13.1	13.1	14.2	14.2	15.4
57.5°	7.2	8.3	9.6	9.6	9.6	10.7	11.9	11.9	13.1	13.1	14.2
60°	7.2	8.3	8.3	9.6	9.6	10.7	10.7	10.7	11.9	11.9	11.9
62.5°	7.2	7.2	8.3	8.3	8.3	9.6	9.6	10.7	10.7	10.7	10.7
65°	7.2	7.2	8.3	8.3	8.3	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	5.9	7.2	7.2	7.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	5.9	5.9	7.2	7.2	7.2	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	5.9	5.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	5.9	5.9	5.9	5.9	5.9	7.2	7.2	7.2	7.2	5.9	5.9
77.5°	4.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.8
80°	4.8	4.8	5.9	4.8	5.9	5.9	5.9	5.9	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	2.4
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	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: P1219547

CATALOG NUMBER: LDSQA4A25950D010TE LAR25NF 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	267.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
2.5°	210.4	212.8	210.4	212.8	206.8	209.1	211.5	205.6
5°	182.9	180.6	181.8	184.1	179.4	180.6	181.8	177.0
7.5°	164.0	165.2	162.8	165.2	161.6	162.8	164.0	160.4
10°	148.6	149.8	148.6	149.8	146.2	148.6	149.8	146.2
12.5°	134.3	136.7	135.5	137.9	134.3	136.7	139.0	134.3
15°	123.6	125.9	124.8	127.2	124.8	127.2	129.6	125.9
17.5°	112.8	115.3	115.3	117.7	116.5	118.9	121.3	117.7
20°	102.1	105.8	105.8	108.2	108.2	109.3	112.8	109.3
22.5°	92.7	96.2	96.2	98.6	98.6	101.0	103.4	101.0
25°	82.1	86.7	87.9	90.3	90.3	92.7	96.2	93.8
27.5°	74.9	78.4	79.7	82.1	83.2	85.5	87.9	85.5
30°	65.3	70.1	71.3	73.7	74.9	78.4	79.7	78.4
32.5°	58.2	61.8	63.0	65.3	67.7	70.1	72.5	71.3
35°	51.2	54.7	55.8	58.2	59.4	63.0	65.3	64.2
37.5°	45.2	48.8	49.9	51.2	52.3	55.8	58.2	57.0
40°	39.3	41.6	42.8	45.2	46.4	48.8	51.2	51.2
42.5°	34.4	36.8	38.0	39.3	40.5	42.8	45.2	44.0
45°	29.6	32.0	33.3	34.4	35.6	36.8	39.3	38.0
47.5°	25.0	27.2	28.5	29.6	30.9	32.0	34.4	33.3
50°	21.3	23.7	23.7	25.0	26.1	27.2	29.6	28.5
52.5°	18.9	20.2	21.3	21.3	22.6	23.7	26.1	25.0
55°	16.5	17.8	17.8	18.9	18.9	20.2	21.3	21.3
57.5°	14.2	15.4	15.4	16.5	16.5	17.8	18.9	18.9
60°	13.1	13.1	14.2	14.2	14.2	15.4	15.4	15.4
62.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
65°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
67.5°	8.3	8.3	8.3	8.3	8.3	7.2	7.2	7.2
70°	7.2	7.2	7.2	7.2	7.2	5.9	5.9	5.9
72.5°	7.2	7.2	5.9	5.9	5.9	5.9	5.9	4.8
75°	5.9	5.9	5.9	5.9	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	3.5	3.5	3.5	3.5
80°	4.8	3.5	3.5	3.5	3.5	3.5	3.5	2.4
82.5°	3.5	3.5	3.5	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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