

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: P1212366

Luminaire Tested: **LDSQA4A35930D010TE LAR35FL 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: P1212366
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: LDSQA4A35930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

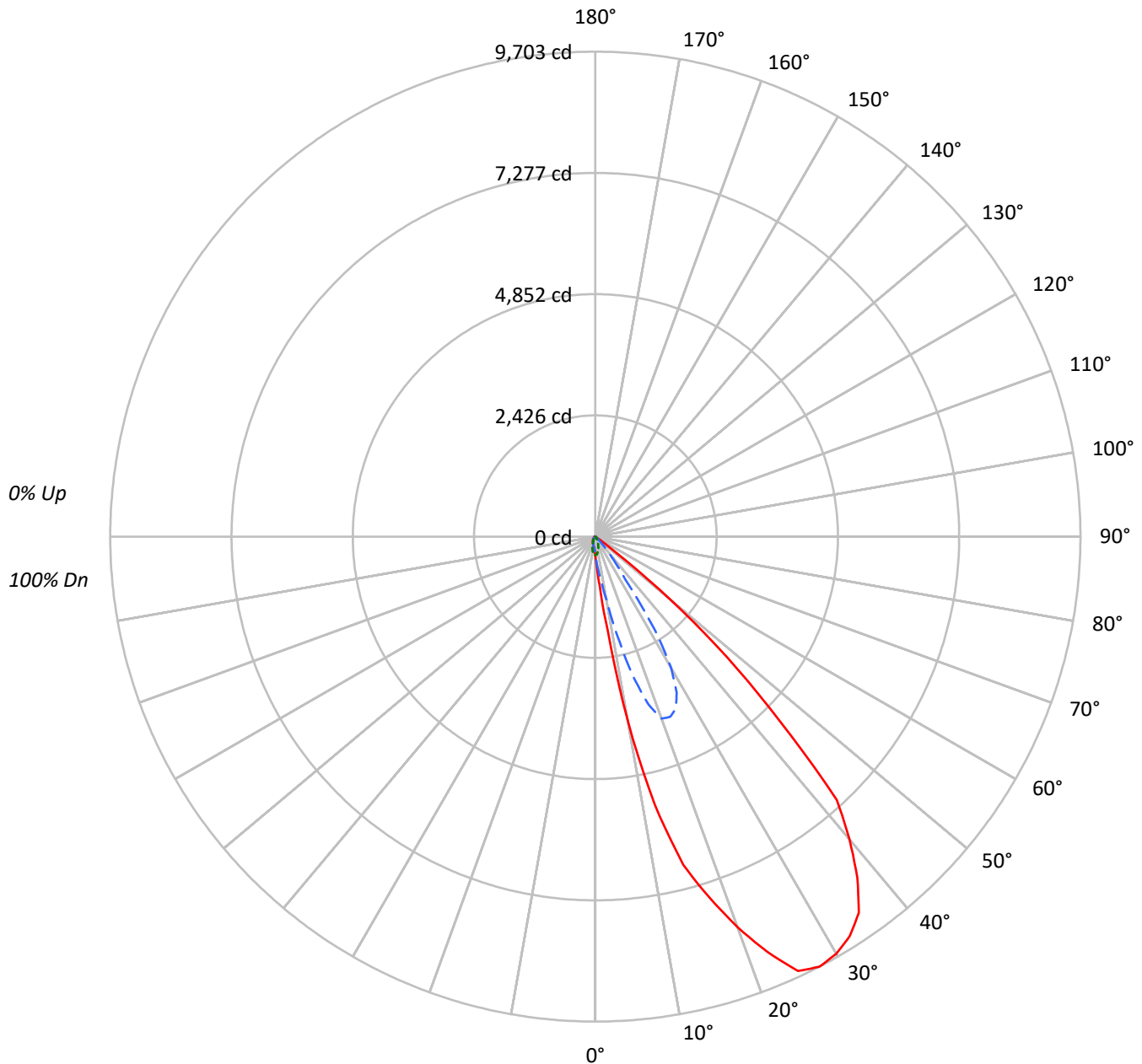
Lumens per Lamp: N/A
Luminaire Lumens: 3178.4 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 2.46 / 0.59 / 1.2
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	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°	35931	35931	35931
5°	94484	34230	22347
10°	370422	29619	18602
15°	681951	23338	16488
20°	856927	16495	15000
25°	1025002	10881	13372
30°	1077892	6835	11723
35°	1086589	4139	10147
40°	999871	2757	8637
45°	711372	2000	7165
50°	293963	1522	5923
55°	16957	1469	5151
60°	1957	1395	4224
65°	665	1650	3003
70°	821	1643	2039
75°	1085	2171	2171
80°	0	3236	2399
85°	0	6447	3223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.8
10°-20°	465.7	14.7
20°-30°	963.4	30.3
30°-40°	1048.7	33.0
40°-50°	575.0	18.1
50°-60°	49.8	1.6
60°-70°	8.1	0.3
70°-80°	5.8	0.2
80°-90°	3.6	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°	1487.4	46.8
0°-40°	2536.1	79.8
0°-60°	3160.9	99.4
0°-90°	3178.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	371	371	371	371	371	
5°	972	665	352	243	230	177
15°	6800	2858	233	157	164	1899
25°	9589	3802	102	96	125	4330
35°	9188	1040	35	55	86	5639
45°	5192	106	15	30	52	3963
55°	100	12	9	19	30	343
65°	3	4	7	12	13	4
75°	3	4	6	9	6	2
85°	0	3	6	4	3	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°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9
2.5°	583.3	562.9	560.1	562.9	548.3	546.9	549.8	538.2	527.9	517.9	509.0
5°	971.6	929.4	916.2	898.9	855.3	840.7	837.8	791.3	746.1	703.9	664.7
7.5°	1887.9	1803.6	1758.4	1671.1	1537.4	1477.7	1445.8	1293.0	1150.6	1021.0	903.2
10°	3765.6	3544.5	3436.9	3272.5	2980.2	2836.3	2731.5	2347.5	1969.3	1605.7	1285.7
12.5°	5495.0	5372.8	5214.2	5126.9	4652.9	4471.0	4297.9	3765.6	3189.6	2602.0	2018.8
15°	6799.6	6620.7	6452.0	6411.3	6038.9	5826.6	5634.6	5083.4	4398.3	3650.7	2858.1
17.5°	7566.2	7438.2	7278.1	7201.1	6764.8	6593.1	6374.9	5841.1	5174.9	4430.3	3509.5
20°	8312.2	8123.1	7897.8	7781.4	7298.5	7100.7	6853.5	6291.9	5586.6	4795.3	3874.7
22.5°	8994.5	8750.1	8430.1	8249.7	7707.3	7489.0	7212.7	6604.7	5841.1	4936.4	3905.2
25°	9589.3	9368.2	8942.1	8626.4	7986.5	7729.1	7407.5	6772.0	5932.7	4924.9	3801.9
27.5°	9702.7	9554.4	9171.9	8806.8	8083.9	7797.4	7464.3	6806.9	5868.7	4763.4	3524.1
30°	9635.9	9475.8	9168.9	8796.6	8043.1	7753.8	7407.5	6658.5	5618.5	4386.6	3015.1
32.5°	9474.3	9336.3	8969.7	8577.0	7842.5	7541.4	7176.3	6310.8	5189.5	3787.5	2218.0
35°	9187.9	8979.9	8537.7	8214.8	7524.0	7214.2	6767.6	5846.9	4548.1	2722.8	1039.9
37.5°	8604.6	8402.4	8083.9	7785.7	7112.3	6747.2	6276.0	5201.2	3371.4	1485.0	642.8
40°	7906.5	7731.9	7454.2	7164.7	6470.9	6050.6	5531.3	4065.2	1983.8	836.4	395.7
42.5°	7147.2	6966.8	6652.8	6315.4	5559.0	5115.4	4554.0	2631.1	1045.8	493.0	215.2
45°	5192.4	5031.0	4802.7	4559.7	4121.9	3801.9	3063.1	1381.8	578.8	261.8	106.1
47.5°	3553.3	3361.2	2939.4	2428.9	1969.3	1684.3	1266.8	599.2	296.7	130.9	62.6
50°	1950.5	1746.8	1531.6	1192.7	798.5	656.0	510.5	289.4	133.7	65.4	35.0
52.5°	478.6	423.3	386.8	356.4	282.1	254.6	215.2	120.7	61.1	36.4	24.7
55°	100.4	93.0	88.7	87.2	80.0	77.2	66.9	46.5	33.5	23.3	11.7
57.5°	29.1	27.6	29.1	29.1	29.1	27.6	27.6	20.4	18.9	11.7	7.2
60°	10.1	10.1	10.1	11.7	11.7	11.7	13.1	13.1	10.1	7.2	5.8
62.5°	4.3	4.3	4.3	5.8	5.8	7.2	7.2	7.2	5.8	5.8	4.3
65°	2.9	2.9	2.9	2.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
77.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	2.9	4.3
80°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	2.9	2.9
82.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9	2.9
85°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9	2.9
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°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9
2.5°	484.4	469.8	452.3	433.5	430.5	420.3	405.7	385.4	378.1	363.6	350.5
5°	608.0	568.7	527.9	491.6	480.0	464.0	437.9	401.4	378.1	352.0	330.2
7.5°	773.8	683.6	600.6	535.2	514.8	488.7	447.9	401.4	366.5	330.2	301.1
10°	994.8	811.5	669.1	562.9	529.4	494.4	440.7	384.0	343.2	301.1	270.5
12.5°	1420.9	999.2	733.1	577.4	530.9	485.8	417.5	356.4	309.8	267.7	237.0
15°	2020.3	1355.5	862.5	587.6	516.3	461.1	381.1	318.5	272.0	232.7	203.7
17.5°	2526.5	1692.9	1035.6	616.6	506.2	429.0	338.9	274.9	229.8	194.8	171.6
20°	2773.7	1844.2	1114.1	621.0	477.1	381.1	289.4	228.3	189.1	160.0	139.6
22.5°	2744.6	1793.3	1041.3	544.0	402.9	321.4	240.0	184.8	151.3	128.0	113.4
25°	2549.7	1572.3	849.4	416.0	314.2	260.3	187.6	144.0	117.9	101.8	90.2
27.5°	2222.3	1262.5	619.6	293.8	238.5	197.8	139.6	110.5	90.2	78.5	71.2
30°	1711.8	807.2	356.4	210.9	173.1	141.1	104.8	80.0	68.3	61.1	55.3
32.5°	882.9	392.7	237.0	151.3	122.2	101.8	72.6	58.2	50.9	46.5	43.7
35°	484.4	279.2	164.4	97.5	78.5	65.4	49.4	40.7	37.8	35.0	35.0
37.5°	333.1	173.1	91.6	58.2	48.0	40.7	33.5	29.1	27.6	27.6	27.6
40°	192.0	91.6	52.3	36.4	30.5	27.6	23.3	21.8	21.8	21.8	23.3
42.5°	98.9	53.9	35.0	24.7	21.8	18.9	16.1	16.1	16.1	17.4	18.9
45°	58.2	36.4	23.3	16.1	14.6	13.1	11.7	11.7	13.1	14.6	16.1
47.5°	36.4	24.7	14.6	10.1	8.7	8.7	8.7	8.7	10.1	11.7	13.1
50°	24.7	13.1	8.7	5.8	5.8	5.8	5.8	7.2	8.7	10.1	11.7
52.5°	13.1	7.2	5.8	4.3	4.3	4.3	5.8	5.8	7.2	8.7	10.1
55°	7.2	5.8	4.3	4.3	4.3	4.3	4.3	5.8	7.2	8.7	10.1
57.5°	5.8	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2	8.7
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2	8.7
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2	7.2
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2	7.2
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	7.2
70°	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	7.2
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8
75°	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8	7.2
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8
80°	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8
85°	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8
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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9
2.5°	343.2	331.6	320.0	320.0	314.2	305.4	302.5	293.8	288.1	285.1	282.1
5°	314.2	296.7	280.7	279.2	272.0	261.8	257.4	248.7	242.9	240.0	238.5
7.5°	280.7	263.2	247.3	244.4	238.5	231.3	227.0	219.6	216.7	213.8	212.4
10°	248.7	231.3	219.6	216.7	212.4	206.6	202.2	197.8	194.8	193.4	193.4
12.5°	216.7	203.7	193.4	190.5	187.6	183.3	180.4	177.4	175.9	175.9	175.9
15°	187.6	175.9	167.2	167.2	164.4	161.5	161.5	158.6	157.0	158.6	160.0
17.5°	158.6	149.8	142.6	142.6	141.1	139.6	139.6	139.6	141.1	142.6	145.5
20°	130.9	123.7	120.7	120.7	119.3	120.7	120.7	122.2	123.7	128.0	132.3
22.5°	106.1	101.8	98.9	100.4	100.4	101.8	103.3	106.1	109.1	113.4	117.9
25°	85.8	82.9	81.5	82.9	84.4	85.8	88.7	91.6	96.1	100.4	106.1
27.5°	68.3	66.9	66.9	68.3	69.8	72.6	77.2	80.0	84.4	88.7	94.5
30°	55.3	53.9	55.3	58.2	59.6	62.6	65.4	69.8	74.2	78.5	84.4
32.5°	43.7	45.0	46.5	48.0	49.4	53.9	56.8	59.6	64.0	68.3	74.2
35°	36.4	37.8	39.3	40.7	42.2	45.0	48.0	50.9	55.3	59.6	65.4
37.5°	29.1	30.5	32.0	35.0	36.4	37.8	42.2	43.7	48.0	50.9	56.8
40°	24.7	26.1	27.6	29.1	30.5	33.5	36.4	37.8	40.7	45.0	49.4
42.5°	20.4	21.8	23.3	24.7	26.1	29.1	30.5	33.5	36.4	39.3	42.2
45°	17.4	18.9	20.4	21.8	23.3	24.7	26.1	29.1	30.5	33.5	36.4
47.5°	14.6	16.1	18.9	18.9	20.4	21.8	23.3	24.7	27.6	29.1	32.0
50°	13.1	14.6	16.1	17.4	17.4	18.9	20.4	21.8	23.3	24.7	27.6
52.5°	11.7	13.1	14.6	14.6	16.1	17.4	18.9	18.9	20.4	21.8	23.3
55°	10.1	11.7	13.1	13.1	14.6	16.1	16.1	17.4	18.9	18.9	20.4
57.5°	10.1	10.1	11.7	11.7	13.1	13.1	14.6	16.1	16.1	17.4	18.9
60°	8.7	10.1	10.1	11.7	11.7	13.1	13.1	14.6	14.6	16.1	16.1
62.5°	8.7	8.7	10.1	10.1	11.7	11.7	13.1	13.1	13.1	14.6	14.6
65°	8.7	8.7	10.1	10.1	10.1	11.7	11.7	11.7	11.7	13.1	13.1
67.5°	7.2	8.7	8.7	10.1	10.1	10.1	10.1	10.1	11.7	11.7	11.7
70°	7.2	8.7	8.7	8.7	8.7	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	7.2	7.2	7.2	7.2	8.7	8.7	8.7	8.7	8.7	8.7	8.7
75°	7.2	7.2	7.2	7.2	7.2	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	5.8	5.8	5.8	5.8	5.8	7.2	5.8	5.8	5.8	5.8	5.8
82.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3
87.5°	5.8	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212366

CATALOG NUMBER: LDSQA4A35930D010TE LAR35FL 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	370.9	370.9	370.9	370.9	370.9	370.9	370.9	370.9
2.5°	277.8	274.9	277.8	274.9	274.9	269.1	273.5	270.5
5°	234.2	231.3	234.2	232.7	229.8	228.3	231.3	229.8
7.5°	209.4	206.6	209.4	209.4	206.6	205.1	208.0	206.6
10°	190.5	189.1	190.5	190.5	189.1	187.6	190.5	189.1
12.5°	174.5	173.1	175.9	175.9	174.5	174.5	177.4	174.5
15°	160.0	160.0	162.9	162.9	162.9	162.9	165.9	164.4
17.5°	145.5	148.3	151.3	152.7	152.7	152.7	155.6	155.6
20°	133.7	136.7	139.6	141.1	142.6	142.6	145.5	145.5
22.5°	120.7	123.7	128.0	129.4	130.9	132.3	135.2	135.2
25°	109.1	112.0	116.4	117.9	120.7	122.2	125.1	125.1
27.5°	97.5	101.8	104.8	107.6	109.1	112.0	114.8	114.8
30°	87.2	91.6	94.5	97.5	98.9	101.8	104.8	104.8
32.5°	77.2	81.5	84.4	87.2	90.2	91.6	96.1	96.1
35°	68.3	71.2	75.7	77.2	80.0	82.9	85.8	85.8
37.5°	59.6	62.6	65.4	68.3	71.2	72.6	75.7	77.2
40°	52.3	55.3	58.2	59.6	62.6	65.4	66.9	68.3
42.5°	45.0	48.0	50.9	52.3	55.3	56.8	59.6	59.6
45°	39.3	42.2	43.7	45.0	48.0	49.4	52.3	52.3
47.5°	33.5	36.4	37.8	39.3	40.7	42.2	45.0	45.0
50°	29.1	30.5	32.0	33.5	35.0	37.8	39.3	39.3
52.5°	24.7	27.6	27.6	29.1	30.5	32.0	33.5	35.0
55°	21.8	23.3	24.7	24.7	26.1	27.6	29.1	30.5
57.5°	18.9	20.4	21.8	21.8	23.3	23.3	24.7	26.1
60°	17.4	17.4	18.9	18.9	18.9	20.4	20.4	21.8
62.5°	14.6	14.6	16.1	16.1	16.1	16.1	16.1	16.1
65°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
67.5°	11.7	11.7	11.7	11.7	10.1	10.1	10.1	10.1
70°	10.1	10.1	10.1	10.1	8.7	8.7	8.7	7.2
72.5°	8.7	8.7	8.7	8.7	7.2	7.2	5.8	5.8
75°	7.2	7.2	7.2	7.2	7.2	5.8	5.8	5.8
77.5°	7.2	5.8	5.8	5.8	5.8	5.8	5.8	4.3
80°	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	2.9	2.9	2.9	2.9
85°	4.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)