

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: P1212358

Luminaire Tested: **LDSQA4A35930D010TE LAR15SP 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: P1212358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26799)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35930D010TE LAR15SP 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

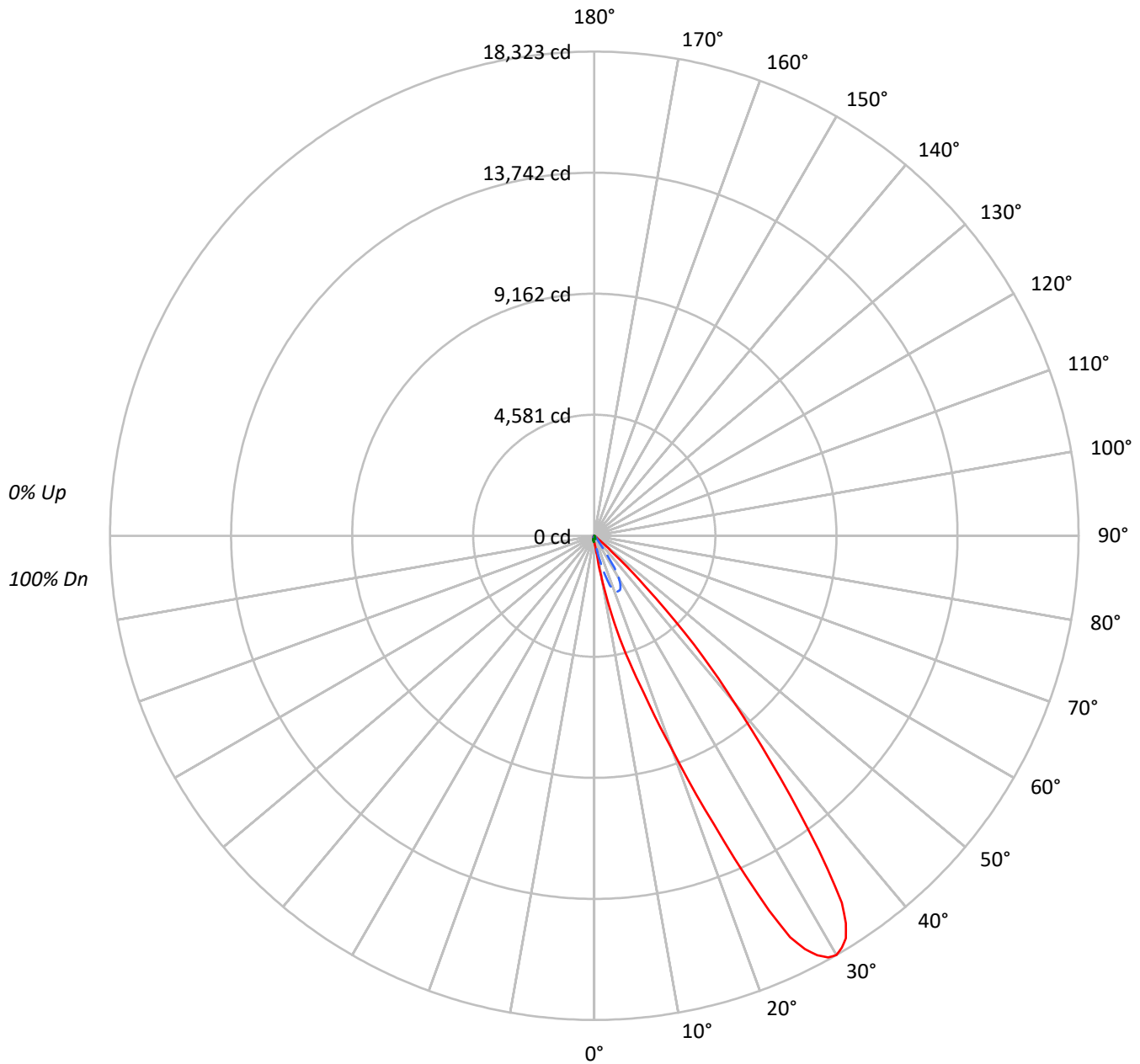
Lumens per Lamp: N/A
Luminaire Lumens: 2817.6 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	113	109	107	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	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	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	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	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23531	23531	23531
5°	39180	22201	18943
10°	167121	19458	16447
15°	462591	15455	14593
20°	887277	10938	13041
25°	1672928	7301	11501
30°	2049638	4888	10090
35°	1820305	3264	8586
40°	1037455	2200	7183
45°	378428	1795	5987
50°	41642	1311	5049
55°	6148	980	4172
60°	1395	1124	3371
65°	986	1330	2315
70°	821	1643	2039
75°	1085	2171	1609
80°	0	3236	1618
85°	0	4780	1667

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	1.1
10°-20°	305.3	10.8
20°-30°	1002.8	35.6
30°-40°	1099.8	39.0
40°-50°	343.5	12.2
50°-60°	18.8	0.7
60°-70°	7.5	0.3
70°-80°	5.7	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°	1338.7	47.5
0°-40°	2438.5	86.5
0°-60°	2800.8	99.4
0°-90°	2817.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	243	243	243	243	243	
5°	403	323	228	202	195	75
15°	4612	1482	154	138	146	1449
25°	15651	2276	68	84	108	6977
35°	15392	448	28	48	73	8999
45°	2762	46	13	28	44	2536
55°	36	9	6	16	25	57
65°	4	4	6	12	10	4
75°	3	4	6	9	4	2
85°	0	4	4	4	2	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°	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9
2.5°	299.6	302.5	304.0	296.7	298.1	295.3	298.1	292.4	282.2	285.1	276.3
5°	402.9	397.1	395.7	384.0	381.1	375.3	375.3	362.2	343.2	340.3	322.9
7.5°	712.7	682.3	656.0	616.8	579.0	549.8	538.2	491.7	440.7	421.8	381.1
10°	1698.9	1693.1	1627.7	1504.0	1361.4	1258.2	1198.5	1018.2	789.9	650.1	504.7
12.5°	3092.4	3063.3	2970.2	2743.3	2497.5	2343.2	2222.5	1858.9	1520.0	1248.0	894.5
15°	4612.4	4494.5	4357.9	4005.9	3661.1	3460.4	3288.6	2852.4	2327.2	1936.0	1482.2
17.5°	6235.7	6288.0	5956.4	5349.8	4737.5	4423.3	4132.4	3461.9	2887.2	2480.0	1969.4
20°	8606.6	8496.0	7912.8	6907.7	6004.3	5479.2	5066.3	4098.9	3232.1	2724.3	2241.4
22.5°	11810.9	11459.0	10321.5	8621.2	7188.4	6459.6	5873.4	4570.2	3521.5	2849.4	2285.0
25°	15650.9	15325.2	13219.0	10269.2	8149.8	7205.8	6408.7	4869.8	3637.8	2869.8	2276.4
26°	16904.8	16420.4	14288.1	10855.3	8445.1	7394.9	6541.1	4928.0	3640.7	2853.9	2238.5
27°	17553.4	17173.8	15172.4	11330.9	8647.3	7514.3	6615.3	4942.6	3611.7	2817.5	2180.3
28°	17981.1	17626.3	15732.4	11642.2	8750.6	7560.8	6637.2	4910.6	3546.2	2753.5	2088.7
29°	18245.9	17872.1	16005.8	11783.3	8757.8	7540.4	6596.4	4826.2	3457.5	2676.3	1982.5
30°	18322.9	17918.7	16013.2	11725.1	8650.2	7431.3	6481.5	4689.5	3349.8	2578.9	1864.7
31°	18186.3	17768.9	15749.9	11460.4	8429.2	7219.0	6301.1	4509.1	3216.0	2475.7	1682.9
32°	17959.4	17405.1	15198.7	11021.2	8126.6	6962.9	6075.6	4312.7	3073.4	2344.7	1426.9
33°	17476.5	16807.4	14354.9	10469.8	7763.0	6669.1	5812.3	4094.6	2938.2	2119.2	1060.4
34°	16750.6	15905.5	13320.8	9828.4	7351.3	6302.6	5509.9	3892.4	2797.1	1821.1	725.8
35°	15392.0	14605.1	12179.0	9144.8	6907.7	5947.7	5176.8	3627.7	2605.2	1460.4	447.9
36°	13872.0	13293.1	11072.1	8449.5	6453.9	5579.6	4833.4	3432.7	2321.5	1074.9	304.0
37°	12318.6	11805.1	10027.6	7765.9	5998.6	5172.4	4484.4	3211.7	1984.0	717.1	244.4
38°	10839.3	10432.0	9035.7	7093.9	5525.9	4746.2	4117.8	2975.9	1620.5	461.1	200.8
39°	9480.8	9175.3	8064.0	6443.6	5051.7	4328.7	3765.8	2679.2	1236.3	328.8	167.2
40°	8203.7	7988.3	7127.3	5802.3	4580.3	3918.6	3447.3	2320.0	858.2	260.3	135.2
42.5°	5579.6	5525.9	5015.2	4176.0	3402.2	3015.3	2725.9	1304.7	330.2	157.2	75.7
45°	2762.2	2800.0	2596.3	2388.3	2226.9	2109.1	1717.8	544.0	183.3	85.8	46.5
47.5°	977.5	978.9	842.1	750.6	717.1	714.2	519.3	192.0	97.5	52.4	33.5
50°	276.3	298.1	280.7	286.6	224.0	190.5	155.6	93.0	49.4	33.5	21.8
51°	170.2	183.3	171.6	177.4	154.1	138.3	116.4	69.8	39.3	27.6	20.4
52°	109.1	116.4	110.5	112.0	103.3	90.2	78.5	50.9	32.0	23.3	17.4
53°	74.2	78.5	74.2	74.2	68.3	64.0	55.3	37.8	26.1	18.9	13.1
54°	50.9	52.4	52.4	52.4	48.0	45.0	39.3	29.1	21.8	17.4	11.7
55°	36.4	37.8	36.4	36.4	35.0	32.0	29.1	21.8	17.4	14.6	8.7
57.5°	16.1	16.1	16.1	17.4	16.1	16.1	14.6	13.1	11.7	8.7	5.8
60°	7.2	7.2	7.2	7.2	8.7	8.7	8.7	8.7	7.2	5.8	5.8
61°	5.8	5.8	5.8	5.8	5.8	7.2	7.2	7.2	5.8	5.8	4.3
62°	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3
63°	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	4.3	4.3	4.3
64°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	4.3	2.9	2.9	2.9	2.9	4.3	4.3	4.3	4.3	4.3	4.3
66°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
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	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.3
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.3
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.3
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.3
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.3
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°	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9
2.5°	270.5	269.1	261.9	254.6	255.9	253.1	250.2	245.9	242.9	235.6	235.6
5°	308.4	301.1	285.1	270.5	269.1	263.3	254.6	245.9	238.5	228.3	225.5
7.5°	352.0	331.6	305.5	282.2	277.8	269.1	253.1	241.5	228.3	215.2	210.9
10°	414.6	366.6	321.4	286.6	277.8	264.8	244.4	228.3	213.8	197.8	192.0
12.5°	637.1	452.4	341.8	286.6	270.5	254.6	229.8	210.9	193.4	175.9	170.2
15°	1061.9	723.0	433.5	286.6	257.4	238.5	208.0	189.1	170.2	154.1	148.3
17.5°	1466.1	1028.4	603.6	322.9	258.9	219.7	181.8	161.5	145.5	129.4	125.1
20°	1700.3	1198.5	715.6	359.2	255.9	197.8	155.6	133.7	117.9	106.1	101.8
22.5°	1730.9	1205.9	690.9	321.4	215.2	164.4	129.4	109.1	96.1	85.8	82.9
25°	1649.4	1064.7	552.7	228.3	160.0	133.7	101.8	87.2	77.2	68.3	66.9
26°	1586.9	980.4	481.4	189.1	141.1	119.3	91.6	78.5	69.8	62.6	61.1
27°	1498.3	890.2	411.6	157.2	125.1	107.6	81.5	71.2	64.0	56.8	56.8
28°	1397.8	792.7	331.6	132.3	112.0	96.1	74.2	64.0	56.8	52.4	52.4
29°	1277.1	651.6	242.9	115.0	98.9	84.4	65.4	56.8	50.9	48.0	48.0
30°	1098.2	472.7	167.2	100.4	85.8	74.2	58.2	50.9	46.5	43.7	43.7
31°	858.2	290.9	130.9	87.2	75.7	65.4	52.4	45.0	42.2	39.3	40.7
32°	584.7	181.8	112.0	75.7	66.9	56.8	46.5	40.7	37.8	36.4	36.4
33°	333.1	151.3	97.5	65.4	56.8	49.4	40.7	36.4	35.0	33.5	33.5
34°	221.1	129.4	84.4	55.3	46.5	42.2	35.0	32.0	30.5	30.5	30.5
35°	186.2	112.0	68.3	46.5	40.7	36.4	30.5	29.1	27.6	27.6	29.1
36°	157.2	93.0	55.3	39.3	35.0	32.0	27.6	26.1	24.7	24.7	26.1
37°	132.3	74.2	46.5	33.5	29.1	27.6	24.7	23.3	23.3	23.3	24.7
38°	107.6	59.6	39.3	29.1	26.1	23.3	21.8	20.4	20.4	21.8	23.3
39°	84.4	48.0	32.0	24.7	21.8	20.4	18.9	18.9	18.9	18.9	20.4
40°	66.9	40.7	27.6	21.8	18.9	18.9	17.4	16.1	17.4	17.4	20.4
42.5°	42.2	29.1	20.4	16.1	14.6	14.6	13.1	13.1	13.1	14.6	16.1
45°	30.5	23.3	16.1	13.1	11.7	10.1	10.1	10.1	11.7	13.1	14.6
47.5°	23.3	16.1	11.7	8.7	7.2	7.2	7.2	7.2	8.7	10.1	11.7
50°	16.1	10.1	7.2	5.8	5.8	5.8	5.8	5.8	7.2	8.7	10.1
51°	13.1	8.7	7.2	5.8	5.8	4.3	4.3	5.8	7.2	7.2	8.7
52°	10.1	7.2	5.8	4.3	4.3	4.3	4.3	5.8	5.8	7.2	8.7
53°	8.7	7.2	5.8	4.3	4.3	4.3	4.3	4.3	5.8	7.2	8.7
54°	7.2	5.8	4.3	4.3	4.3	4.3	4.3	4.3	5.8	7.2	8.7
55°	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2
57.5°	5.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	7.2
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	7.2
61°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	7.2
62°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	7.2
63°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	7.2
64°	4.3	4.3	4.3	4.3	5.8	5.8	4.3	4.3	5.8	5.8	7.2
65°	4.3	4.3	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8	7.2
66°	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8	7.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	5.8	5.8	5.8
75°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8
80°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	5.8	5.8
82.5°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	5.8
85°	4.3	4.3	5.8	5.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3
87.5°	4.3	4.3	5.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3	4.3
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°	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9
2.5°	232.7	228.3	225.5	224.0	225.5	222.6	218.1	219.7	218.1	216.7	216.7
5°	221.1	213.8	210.9	209.4	209.4	208.0	202.2	203.7	202.2	200.8	200.8
7.5°	205.1	199.4	194.8	193.4	193.4	192.0	186.2	189.1	186.2	184.8	186.2
10°	186.2	180.4	179.0	175.9	175.9	174.5	170.2	171.6	170.2	170.2	170.2
12.5°	165.9	160.0	158.6	157.2	158.6	157.2	152.7	155.6	154.1	154.1	155.6
15°	144.0	139.6	139.6	138.3	139.6	138.3	136.8	138.3	138.3	138.3	141.1
17.5°	122.2	119.3	119.3	117.9	119.3	119.3	117.9	122.2	122.2	125.1	128.0
20°	100.4	97.5	98.9	98.9	101.8	101.8	101.8	106.1	107.6	110.5	115.0
22.5°	82.9	81.5	82.9	82.9	85.8	87.2	87.2	91.6	96.1	98.9	103.3
25°	66.9	66.9	69.8	69.8	71.2	74.2	75.7	81.5	84.4	87.2	91.6
26°	62.6	62.6	64.0	65.4	66.9	69.8	71.2	77.2	80.0	82.9	87.2
27°	56.8	56.8	59.6	61.1	62.6	65.4	68.3	72.6	75.7	80.0	82.9
28°	52.4	52.4	55.3	56.8	58.2	62.6	64.0	68.3	71.2	75.7	80.0
29°	48.0	49.4	52.4	52.4	55.3	58.2	59.6	65.4	68.3	71.2	75.7
30°	45.0	46.5	48.0	49.4	50.9	53.9	56.8	61.1	64.0	66.9	71.2
31°	42.2	43.7	45.0	46.5	48.0	50.9	53.9	58.2	61.1	64.0	68.3
32°	39.3	39.3	42.2	43.7	45.0	48.0	50.9	55.3	58.2	61.1	65.4
33°	36.4	37.8	39.3	40.7	42.2	45.0	48.0	50.9	53.9	58.2	62.6
34°	33.5	35.0	37.8	39.3	40.7	43.7	45.0	48.0	50.9	55.3	58.2
35°	30.5	33.5	35.0	36.4	37.8	40.7	42.2	46.5	48.0	52.4	55.3
36°	29.1	30.5	33.5	35.0	36.4	37.8	39.3	43.7	46.5	49.4	52.4
37°	26.1	29.1	30.5	32.0	33.5	36.4	37.8	40.7	43.7	46.5	49.4
38°	24.7	26.1	29.1	30.5	32.0	33.5	35.0	39.3	40.7	43.7	46.5
39°	23.3	24.7	27.6	29.1	29.1	32.0	33.5	36.4	37.8	40.7	45.0
40°	21.8	23.3	26.1	26.1	27.6	30.5	32.0	35.0	36.4	39.3	42.2
42.5°	18.9	20.4	21.8	23.3	24.7	26.1	27.6	30.5	32.0	33.5	36.4
45°	16.1	17.4	20.4	20.4	21.8	23.3	24.7	26.1	27.6	30.5	32.0
47.5°	13.1	16.1	17.4	18.9	18.9	20.4	21.8	23.3	24.7	26.1	27.6
50°	11.7	13.1	14.6	16.1	16.1	17.4	18.9	20.4	20.4	21.8	24.7
51°	11.7	13.1	14.6	14.6	16.1	17.4	17.4	18.9	20.4	20.4	21.8
52°	10.1	11.7	13.1	14.6	14.6	16.1	17.4	17.4	18.9	20.4	21.8
53°	10.1	11.7	13.1	13.1	14.6	16.1	16.1	17.4	17.4	18.9	20.4
54°	10.1	11.7	13.1	13.1	14.6	14.6	16.1	16.1	17.4	17.4	18.9
55°	8.7	10.1	11.7	13.1	13.1	14.6	14.6	16.1	16.1	17.4	17.4
57.5°	8.7	10.1	11.7	11.7	11.7	13.1	13.1	14.6	14.6	14.6	16.1
60°	8.7	10.1	10.1	11.7	11.7	13.1	13.1	13.1	13.1	14.6	14.6
61°	8.7	8.7	10.1	11.7	11.7	11.7	13.1	13.1	13.1	13.1	14.6
62°	8.7	8.7	10.1	10.1	11.7	11.7	11.7	13.1	13.1	13.1	13.1
63°	7.2	8.7	10.1	10.1	11.7	11.7	11.7	11.7	11.7	13.1	13.1
64°	7.2	8.7	10.1	10.1	10.1	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.2	8.7	10.1	10.1	10.1	11.7	11.7	11.7	11.7	11.7	11.7
66°	7.2	8.7	10.1	10.1	10.1	11.7	11.7	11.7	11.7	11.7	11.7

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212358

CATALOG NUMBER: LDSQA4A35930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	7.2	7.2	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
75°	7.2	7.2	7.2	8.7	8.7	8.7	8.7	8.7	8.7	7.2	7.2
77.5°	5.8	5.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	5.8
80°	5.8	5.8	7.2	7.2	7.2	7.2	7.2	7.2	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	5.8	4.3	4.3	2.9
87.5°	4.3	5.8	5.8	5.8	5.8	5.8	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: P1212358

CATALOG NUMBER: LDSQA4A35930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	242.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9
2.5°	218.1	213.8	212.4	212.4	213.8	212.4	213.8	212.4
5°	200.8	196.3	196.3	194.8	196.3	194.8	196.3	194.8
7.5°	186.2	181.8	181.8	181.8	181.8	181.8	183.3	181.8
10°	171.6	167.2	167.2	165.9	167.2	167.2	168.7	167.2
12.5°	157.2	154.1	154.1	152.7	155.6	154.1	157.2	155.6
15°	144.0	141.1	141.1	142.6	144.0	144.0	145.5	145.5
17.5°	130.9	130.9	130.9	132.3	133.7	135.2	136.8	135.2
20°	119.3	119.3	120.7	122.2	123.7	125.1	126.5	126.5
22.5°	107.6	107.6	109.1	112.0	115.0	116.4	117.9	117.9
25°	96.1	97.5	98.9	100.4	104.8	106.1	107.6	107.6
26°	91.6	93.0	96.1	97.5	100.4	101.8	104.8	104.8
27°	88.7	90.2	91.6	93.0	97.5	98.9	101.8	100.4
28°	84.4	85.8	87.2	90.2	93.0	96.1	97.5	97.5
29°	80.0	82.9	84.4	85.8	90.2	91.6	93.0	93.0
30°	77.2	78.5	80.0	82.9	85.8	88.7	90.2	90.2
31°	72.6	75.7	77.2	78.5	82.9	84.4	87.2	87.2
32°	69.8	71.2	72.6	75.7	78.5	81.5	82.9	82.9
33°	65.4	68.3	69.8	71.2	75.7	78.5	80.0	78.5
34°	62.6	65.4	65.4	68.3	71.2	74.2	75.7	75.7
35°	59.6	61.1	62.6	65.4	68.3	71.2	72.6	72.6
36°	56.8	58.2	59.6	62.6	65.4	68.3	69.8	69.8
37°	53.9	55.3	56.8	58.2	62.6	65.4	66.9	66.9
38°	50.9	52.4	53.9	56.8	59.6	61.1	64.0	64.0
39°	48.0	49.4	50.9	53.9	56.8	58.2	61.1	59.6
40°	45.0	48.0	48.0	50.9	53.9	55.3	58.2	56.8
42.5°	39.3	40.7	42.2	43.7	46.5	49.4	50.9	50.9
45°	35.0	36.4	37.8	39.3	40.7	42.2	45.0	43.7
47.5°	29.1	30.5	32.0	33.5	35.0	36.4	37.8	37.8
50°	26.1	26.1	27.6	27.6	30.5	32.0	33.5	33.5
51°	23.3	24.7	26.1	26.1	29.1	29.1	30.5	30.5
52°	23.3	23.3	24.7	24.7	26.1	27.6	29.1	29.1
53°	21.8	21.8	23.3	23.3	24.7	26.1	27.6	27.6
54°	20.4	20.4	21.8	21.8	23.3	24.7	26.1	26.1
55°	18.9	18.9	20.4	20.4	21.8	23.3	24.7	24.7
57.5°	16.1	17.4	17.4	18.9	18.9	20.4	20.4	21.8
60°	14.6	16.1	16.1	16.1	17.4	17.4	17.4	17.4
61°	14.6	14.6	14.6	16.1	16.1	14.6	16.1	14.6
62°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
63°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
64°	13.1	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.1
66°	11.7	11.7	10.1	11.7	10.1	10.1	10.1	10.1

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212358

CATALOG NUMBER: LDSQA4A35930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	7.2	7.2	7.2	7.2	7.2	5.8	5.8	5.8
75°	7.2	7.2	7.2	5.8	5.8	5.8	5.8	4.3
77.5°	5.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9
82.5°	4.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5
87.5°	1.5	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

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report





67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3

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67.5°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	5.8	5.8	7.2
70°	4.3	5.8	5.8	5.8	5.8	5.8	5.8	4.3	5.8	5.8	5.8

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Peachtree City, GA 30269

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Peachtree City, GA 30269

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67.5°	7.2	8.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
70°	7.2	8.7	8.7	8.7	10.1	10.1	10.1	10.1	10.1	10.1	10.1

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67.5°	10.1	10.1	10.1	10.1	10.1	8.7	8.7	8.7
70°	8.7	8.7	8.7	8.7	8.7	7.2	7.2	7.2

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(END OF REPORT)