

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: P1212192

Luminaire Tested: **LDSQA4A20930D010TE LAR15SP 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: P1212192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26802)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A20930D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

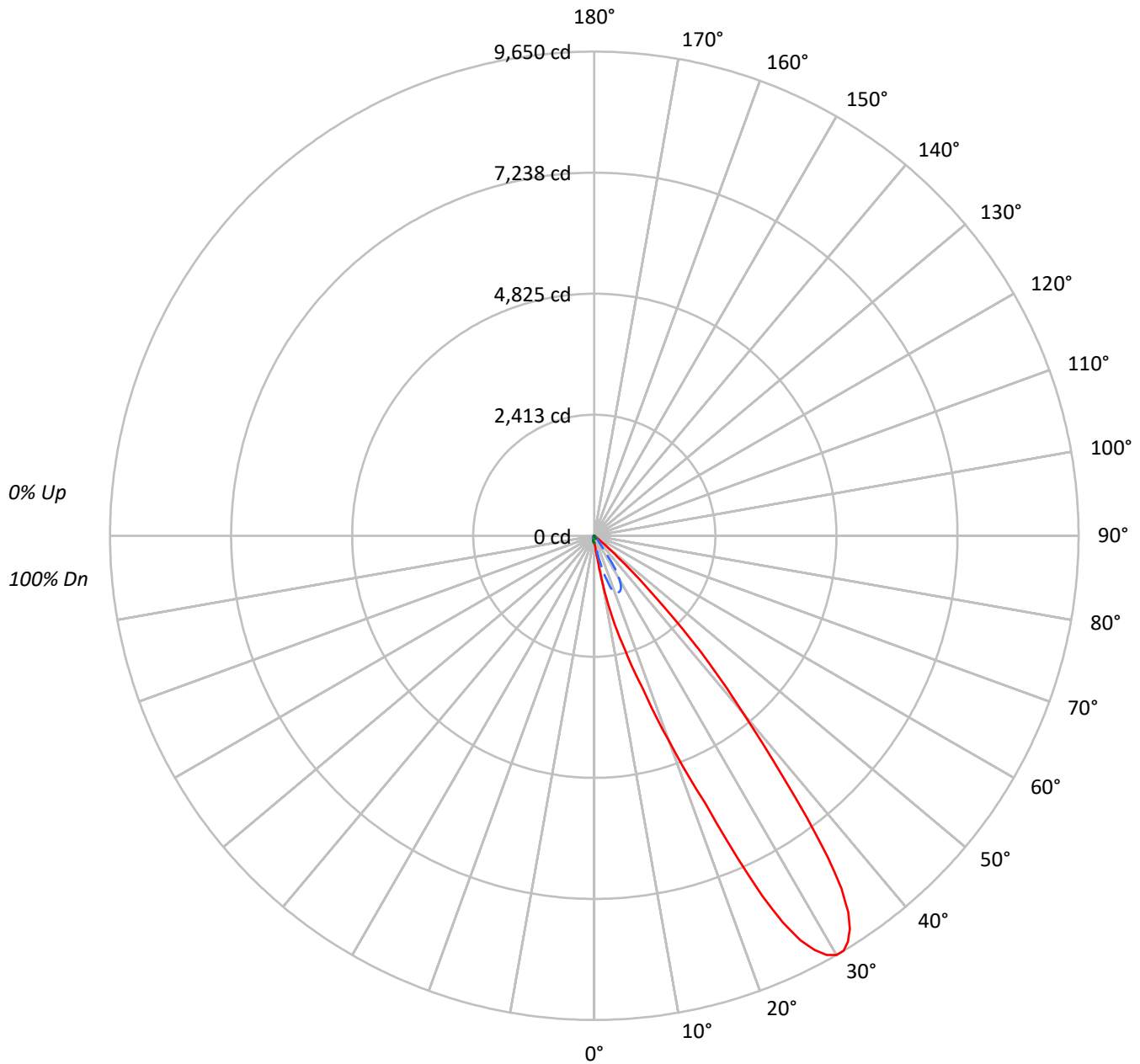
Lumens per Lamp: N/A
Luminaire Lumens: 1514.8 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	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	61		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13843	13843	13843
5°	21997	13167	11368
10°	96343	11667	9680
15°	235427	9438	8425
20°	449164	7031	7722
25°	846485	5035	6734
30°	1079324	3568	5929
35°	1015300	2188	5073
40°	582458	1492	4350
45°	224849	1041	3699
50°	29901	769	3044
55°	4560	709	2567
60°	1318	659	2112
65°	779	779	1559
70°	482	963	1190
75°	636	936	936
80°	0	1395	948
85°	0	2779	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	1.2
10°-20°	162.3	10.7
20°-30°	517.7	34.2
30°-40°	599.9	39.6
40°-50°	195.1	12.9
50°-60°	12.4	0.8
60°-70°	4.5	0.3
70°-80°	3.2	0.2
80°-90°	1.9	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°	697.9	46.1
0°-40°	1297.8	85.7
0°-60°	1505.2	99.4
0°-90°	1514.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	143	143	143	143	143	
5°	226	189	135	119	117	44
15°	2347	846	94	81	84	744
25°	7919	1217	47	50	63	3558
35°	8585	290	18	29	43	4940
45°	1641	35	8	17	27	1465
55°	27	7	4	9	15	42
65°	3	2	3	7	7	3
75°	2	2	2	4	2	1
85°	0	2	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°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
2.5°	174.0	175.8	175.8	173.1	173.1	170.6	169.0	168.2	167.4	164.8	163.9
5°	226.2	227.8	228.7	221.9	219.4	214.5	210.2	206.0	201.0	195.1	189.2
7.5°	436.4	401.0	407.0	356.5	347.3	325.4	307.8	280.0	259.8	239.6	223.6
10°	979.4	945.9	939.9	866.0	792.9	738.2	679.4	577.6	485.1	386.8	306.9
12.5°	1678.2	1628.6	1600.9	1455.4	1369.6	1288.9	1198.9	1040.0	862.7	711.3	553.2
15°	2347.4	2343.2	2244.0	2081.8	1918.6	1819.5	1703.4	1506.6	1296.5	1066.1	845.8
17.5°	3155.4	3188.2	3018.4	2701.4	2443.3	2281.8	2122.1	1814.4	1552.1	1328.4	1087.1
20°	4356.9	4269.4	3972.7	3476.6	3040.2	2797.3	2549.3	2096.0	1720.2	1449.4	1204.8
22.5°	5768.6	5701.3	5146.3	4319.0	3627.1	3285.8	2944.3	2355.0	1865.7	1515.0	1227.5
25°	7919.2	7642.6	6565.6	5222.9	4165.2	3681.7	3243.7	2523.1	1931.3	1523.5	1216.6
26°	8579.3	8385.0	7142.3	5581.9	4330.8	3791.0	3318.6	2557.7	1936.2	1515.9	1195.6
27°	9047.6	8899.6	7622.5	5845.8	4451.1	3866.7	3367.3	2571.9	1924.5	1499.9	1167.0
28°	9356.2	9237.6	7984.8	6036.8	4524.2	3907.0	3390.8	2568.6	1901.0	1472.2	1126.6
29°	9552.0	9437.7	8196.6	6145.1	4550.2	3913.8	3385.0	2543.4	1863.2	1431.0	1068.6
30°	9648.7	9524.2	8268.1	6157.0	4521.7	3875.1	3340.4	2487.9	1811.0	1381.4	1004.7
31°	9649.5	9511.6	8208.4	6066.2	4436.7	3792.6	3261.4	2395.4	1743.0	1322.6	919.0
32°	9537.8	9395.7	8009.1	5882.0	4303.9	3689.3	3155.4	2301.2	1671.5	1257.0	795.4
33°	9350.2	9182.1	7663.7	5626.4	4134.1	3548.1	3028.5	2196.1	1600.0	1151.9	633.1
34°	9047.6	8818.1	7181.0	5316.2	3928.9	3383.2	2883.0	2082.6	1527.7	1005.6	452.3
35°	8585.1	8261.4	6622.7	4973.2	3709.4	3205.0	2719.0	1964.0	1439.4	824.8	290.1
36°	7915.8	7498.0	6041.8	4618.3	3483.3	3017.6	2552.6	1849.8	1299.8	625.6	190.0
37°	7042.2	6674.1	5486.0	4261.0	3248.7	2817.4	2400.4	1734.5	1128.3	437.2	154.7
38°	6145.1	5873.6	4942.9	3906.2	3005.8	2601.4	2215.4	1614.3	940.8	287.5	129.4
39°	5336.3	5154.7	4411.6	3554.8	2755.2	2412.2	2030.5	1461.3	740.7	204.2	109.3
40°	4605.8	4480.4	3897.8	3196.6	2504.6	2183.5	1856.4	1273.8	533.9	163.0	91.6
42.5°	3141.1	3078.9	2726.6	2300.4	1853.0	1668.9	1462.2	765.9	211.8	103.4	55.5
45°	1641.2	1614.3	1486.5	1346.9	1208.2	1160.2	939.9	343.8	119.4	60.6	35.4
47.5°	639.0	640.6	529.7	452.3	429.6	399.4	302.6	123.5	67.3	37.0	23.5
50°	198.4	213.5	196.8	185.8	142.1	118.6	98.4	61.4	36.2	22.6	15.2
51°	121.9	129.4	121.9	121.9	100.1	87.4	74.9	47.1	28.6	18.5	13.4
52°	79.0	83.2	79.0	73.9	69.0	62.2	53.8	35.4	22.6	15.2	10.9
53°	53.8	56.4	53.8	50.4	46.2	42.9	37.8	26.1	18.5	12.6	9.3
54°	37.8	39.5	37.8	35.4	32.8	30.2	27.8	20.2	15.2	10.9	8.4
55°	27.0	28.6	27.8	26.1	23.5	22.6	21.0	16.0	12.6	9.3	6.8
57.5°	12.6	13.4	13.4	12.6	12.6	11.8	10.9	10.1	7.6	5.9	5.1
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.1	4.2	4.2
61°	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.1	4.2	4.2	3.4
62°	4.2	4.2	4.2	4.2	4.2	5.1	5.1	4.2	4.2	3.4	3.4
63°	3.4	3.4	3.4	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4
64°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5
65°	3.4	3.4	2.5	2.5	2.5	3.4	2.5	3.4	2.5	2.5	2.5
66°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
77.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	1.7	1.7
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°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
2.5°	158.9	154.7	153.0	151.4	150.5	148.8	146.3	143.8	142.9	139.6	136.2
5°	179.1	171.5	165.7	159.8	158.1	153.8	148.8	142.9	140.4	135.4	131.1
7.5°	202.6	187.5	176.6	166.5	162.2	157.3	148.0	140.4	135.4	127.8	122.7
10°	242.1	206.9	185.8	168.2	161.4	154.7	142.9	132.8	126.2	118.6	112.6
12.5°	383.4	268.2	201.8	169.0	159.8	149.7	135.4	123.5	115.2	106.8	101.7
15°	604.6	408.6	261.4	177.4	156.4	141.2	124.4	111.0	102.6	94.1	89.1
17.5°	807.1	549.8	341.4	197.6	158.1	133.6	111.0	97.5	88.3	80.7	77.4
20°	904.7	616.3	380.0	201.8	148.0	119.4	95.9	83.2	74.9	68.2	64.7
22.5°	913.9	612.1	356.5	172.3	122.7	100.9	80.7	69.0	62.2	57.2	53.8
25°	870.2	543.1	285.9	127.0	95.9	84.0	66.5	56.4	51.3	47.1	44.5
26°	836.6	503.7	251.4	110.2	87.4	76.6	60.6	52.1	47.1	43.7	41.2
27°	790.3	457.4	211.0	95.0	80.7	69.0	55.5	47.9	43.7	41.2	38.7
28°	734.9	411.9	175.0	84.0	73.1	62.2	51.3	43.7	40.3	37.8	35.4
29°	675.2	352.2	137.0	75.7	65.6	56.4	46.2	39.5	36.2	34.4	32.8
30°	591.0	274.1	105.1	68.2	58.9	50.4	42.0	36.2	33.6	31.9	30.2
31°	472.5	188.3	85.0	60.6	53.0	45.4	37.8	32.8	30.2	28.6	27.8
32°	338.8	116.1	73.9	53.8	47.1	41.2	32.8	29.4	27.0	26.1	25.3
33°	208.6	95.0	65.6	47.9	41.2	36.2	29.4	26.1	24.3	23.5	22.6
34°	137.0	82.4	58.0	41.2	36.2	31.1	25.3	22.6	21.8	21.0	21.0
35°	116.1	73.1	50.4	35.4	30.2	27.0	21.8	20.2	19.4	18.5	19.4
36°	100.1	63.8	42.0	30.2	26.1	22.6	19.4	17.7	16.9	16.9	17.7
37°	88.3	53.8	35.4	25.3	22.6	20.2	16.9	16.0	15.2	15.2	16.0
38°	74.9	43.7	29.4	21.8	19.4	16.9	15.2	14.2	14.2	14.2	15.2
39°	61.4	37.0	25.3	18.5	16.9	15.2	13.4	12.6	12.6	13.4	13.4
40°	50.4	31.1	21.0	16.0	14.2	13.4	11.8	11.8	11.8	11.8	12.6
42.5°	32.8	21.0	15.2	11.8	10.9	10.1	9.3	9.3	9.3	9.3	10.1
45°	21.8	15.2	11.8	9.3	8.4	7.6	7.6	6.8	7.6	7.6	8.4
47.5°	15.2	10.9	8.4	6.8	5.9	5.1	5.1	5.1	5.9	6.8	6.8
50°	10.9	7.6	5.9	4.2	4.2	4.2	4.2	4.2	5.1	5.1	5.9
51°	9.3	6.8	5.1	4.2	4.2	3.4	3.4	3.4	4.2	5.1	5.9
52°	7.6	5.9	4.2	3.4	3.4	3.4	3.4	3.4	4.2	4.2	5.1
53°	6.8	5.1	4.2	3.4	3.4	3.4	3.4	3.4	4.2	4.2	5.1
54°	5.9	4.2	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2	5.1
55°	5.1	4.2	3.4	3.4	2.5	2.5	2.5	2.5	3.4	4.2	4.2
57.5°	4.2	3.4	3.4	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
60°	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
61°	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
62°	3.4	2.5	3.4	3.4	3.4	2.5	2.5	2.5	3.4	3.4	4.2
63°	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4	3.4	3.4
64°	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2
65°	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2
66°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4
75°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4
77.5°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4
80°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
2.5°	134.5	134.5	133.6	132.0	133.6	132.0	130.3	129.4	128.6	127.8	126.2
5°	127.8	127.0	125.3	124.4	124.4	122.7	121.0	119.4	118.6	117.8	116.1
7.5°	119.4	118.6	116.1	115.2	115.2	113.4	111.0	110.2	109.3	108.5	106.8
10°	109.3	108.5	106.0	105.1	105.1	103.4	101.7	100.1	99.2	98.4	96.7
12.5°	97.5	96.7	95.0	94.1	94.1	92.5	90.8	89.9	89.9	89.1	88.3
15°	85.8	85.0	83.2	83.2	83.2	81.5	80.7	79.8	80.7	80.7	79.8
17.5°	73.9	73.1	71.4	71.4	71.4	71.4	70.6	70.6	71.4	72.3	72.3
20°	62.2	61.4	61.4	60.6	61.4	62.2	61.4	62.2	63.8	64.7	65.6
22.5°	51.3	51.3	51.3	51.3	52.1	53.0	53.0	54.6	56.4	57.2	58.9
25°	42.9	42.9	43.7	43.7	44.5	45.4	46.2	47.1	49.6	51.3	52.1
26°	39.5	40.3	40.3	41.2	42.0	42.9	43.7	44.5	47.1	48.8	49.6
27°	37.0	37.0	37.8	38.7	39.5	40.3	41.2	42.9	44.5	46.2	47.9
28°	34.4	34.4	35.4	36.2	37.0	37.8	38.7	40.3	42.0	44.5	45.4
29°	31.9	32.8	32.8	33.6	34.4	35.4	37.0	37.8	40.3	42.0	43.7
30°	29.4	30.2	31.1	31.1	31.9	32.8	34.4	36.2	37.8	40.3	41.2
31°	27.8	28.6	28.6	29.4	30.2	31.1	32.8	34.4	36.2	37.8	39.5
32°	25.3	27.0	27.0	27.0	27.8	29.4	31.1	31.9	34.4	36.2	37.0
33°	23.5	24.3	25.3	25.3	26.1	27.8	29.4	30.2	32.8	34.4	35.4
34°	21.8	22.6	23.5	23.5	24.3	26.1	27.8	28.6	31.1	31.9	33.6
35°	20.2	21.0	21.8	21.8	22.6	24.3	26.1	27.0	28.6	30.2	31.9
36°	18.5	19.4	20.2	21.0	21.8	23.5	24.3	26.1	27.0	28.6	30.2
37°	16.9	17.7	19.4	19.4	21.0	21.8	23.5	24.3	26.1	27.0	28.6
38°	15.2	16.9	17.7	18.5	19.4	21.0	21.8	22.6	24.3	26.1	27.0
39°	14.2	16.0	16.9	17.7	18.5	19.4	20.2	21.8	22.6	24.3	25.3
40°	13.4	14.2	16.0	16.0	17.7	18.5	19.4	20.2	21.8	22.6	24.3
42.5°	10.9	12.6	13.4	14.2	15.2	16.0	16.9	17.7	18.5	20.2	21.0
45°	9.3	10.9	11.8	11.8	12.6	13.4	14.2	15.2	16.9	17.7	18.5
47.5°	7.6	9.3	10.1	10.9	10.9	11.8	12.6	13.4	14.2	15.2	16.0
50°	6.8	7.6	8.4	9.3	10.1	10.1	10.9	11.8	12.6	13.4	13.4
51°	6.8	7.6	8.4	8.4	9.3	10.1	10.9	10.9	11.8	12.6	12.6
52°	5.9	6.8	7.6	8.4	9.3	9.3	10.1	10.9	10.9	11.8	12.6
53°	5.9	6.8	7.6	7.6	8.4	9.3	9.3	10.1	10.9	10.9	11.8
54°	5.1	6.8	7.6	7.6	8.4	8.4	9.3	10.1	10.1	10.1	10.9
55°	5.1	5.9	6.8	7.6	7.6	8.4	8.4	9.3	9.3	10.1	10.1
57.5°	5.1	5.9	6.8	6.8	7.6	7.6	8.4	8.4	8.4	8.4	9.3
60°	4.2	5.1	5.9	6.8	6.8	7.6	7.6	7.6	7.6	7.6	8.4
61°	4.2	5.1	5.9	5.9	6.8	6.8	7.6	7.6	7.6	7.6	7.6
62°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6
63°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	7.6
64°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	4.2	5.1	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
66°	4.2	5.1	5.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	5.9

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212192

CATALOG NUMBER: LDSQA4A20930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.4	4.2	4.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.2
75°	3.4	4.2	4.2	4.2	5.1	5.1	5.1	4.2	4.2	4.2	4.2
77.5°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4
80°	3.4	3.4	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4	2.5
82.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5
85°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	1.7
87.5°	2.5	2.5	2.5	3.4	3.4	3.4	2.5	2.5	1.7	1.7	1.7
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: P1212192

CATALOG NUMBER: LDSQA4A20930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9
2.5°	127.8	128.6	127.8	127.8	126.2	127.0	125.3	127.8
5°	116.9	117.8	116.9	116.9	115.2	115.2	114.3	116.9
7.5°	107.7	108.5	106.8	106.8	105.1	106.0	105.1	106.8
10°	98.4	98.4	98.4	97.5	96.7	97.5	96.7	98.4
12.5°	89.1	89.9	89.9	89.9	89.1	89.1	88.3	90.8
15°	81.5	82.4	83.2	83.2	82.4	83.2	82.4	84.0
17.5°	74.9	76.6	76.6	77.4	77.4	78.2	78.2	79.8
20°	68.2	70.6	70.6	71.4	71.4	73.1	73.1	74.9
22.5°	61.4	63.8	64.7	64.7	65.6	67.3	67.3	69.0
25°	55.5	58.0	58.9	58.9	59.7	61.4	61.4	63.0
26°	53.0	55.5	56.4	57.2	58.0	59.7	59.7	61.4
27°	50.4	53.0	53.8	54.6	55.5	57.2	57.2	58.9
28°	48.8	51.3	52.1	53.0	53.8	55.5	55.5	56.4
29°	46.2	48.8	49.6	50.4	51.3	53.0	53.0	54.6
30°	44.5	46.2	47.1	47.9	48.8	51.3	51.3	53.0
31°	42.0	44.5	45.4	46.2	47.1	48.8	48.8	51.3
32°	40.3	42.0	42.9	43.7	45.4	46.2	47.1	48.8
33°	37.8	40.3	41.2	42.0	42.9	44.5	45.4	47.1
34°	36.2	37.8	39.5	40.3	41.2	42.9	43.7	45.4
35°	34.4	36.2	37.0	37.8	39.5	41.2	41.2	42.9
36°	32.8	34.4	35.4	36.2	37.8	39.5	39.5	41.2
37°	31.1	32.8	33.6	34.4	36.2	37.8	37.8	39.5
38°	29.4	31.1	31.9	32.8	34.4	36.2	37.0	38.7
39°	27.8	30.2	31.1	31.9	32.8	34.4	35.4	36.2
40°	27.0	28.6	29.4	30.2	31.1	32.8	33.6	34.4
42.5°	22.6	25.3	26.1	27.0	27.8	28.6	29.4	30.2
45°	20.2	21.8	21.8	22.6	23.5	25.3	25.3	27.0
47.5°	17.7	18.5	19.4	19.4	20.2	21.8	21.8	22.6
50°	15.2	16.0	16.9	16.9	17.7	18.5	19.4	20.2
51°	14.2	15.2	15.2	16.0	16.9	17.7	18.5	19.4
52°	13.4	14.2	14.2	15.2	16.0	16.9	16.9	17.7
53°	12.6	13.4	13.4	14.2	14.2	16.0	16.0	16.9
54°	11.8	12.6	12.6	13.4	13.4	15.2	15.2	16.0
55°	10.9	11.8	12.6	12.6	12.6	13.4	14.2	15.2
57.5°	10.1	10.9	10.9	10.9	11.8	11.8	12.6	12.6
60°	8.4	9.3	9.3	9.3	10.1	10.1	10.1	10.9
61°	8.4	8.4	9.3	9.3	8.4	8.4	8.4	9.3
62°	7.6	8.4	8.4	7.6	7.6	7.6	7.6	8.4
63°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
64°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	6.8	6.8	6.8	6.8	6.8	6.8	5.9	6.8
66°	5.9	6.8	6.8	5.9	5.9	5.9	5.9	5.9



TEST NUMBER: P1212192

CATALOG NUMBER: LDSQA4A20930D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
75°	4.2	3.4	3.4	3.4	3.4	3.4	3.4	2.5
77.5°	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Peachtree City, GA 30269

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67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5

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67.5°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4	3.4
70°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4

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Peachtree City, GA 30269

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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67.5°	4.2	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.2	4.2	5.1	5.1	5.1	5.9	5.9	5.1	5.1	5.1	5.1

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67.5°	5.9	5.9	5.9	5.9	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	4.2	4.2	4.2	4.2

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Peachtree City, GA 30269

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(END OF REPORT)