

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: P1212346

Luminaire Tested: **LDSQA4A35927D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212346
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: LDSQA4A35927D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

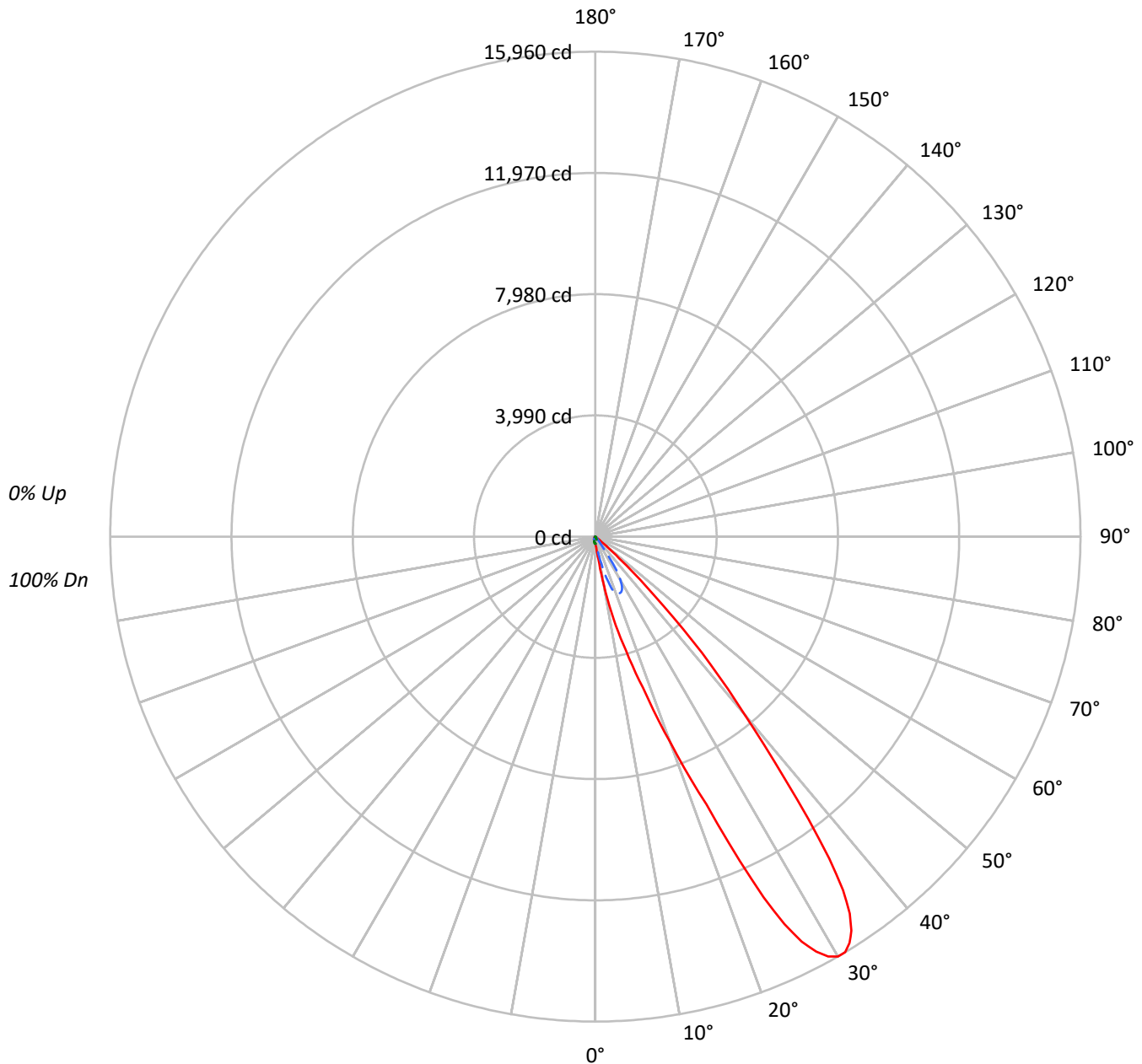
Lumens per Lamp: N/A
Luminaire Lumens: 2505.3 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	72	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	58	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°	22901	22901	22901
5°	36380	21773	18798
10°	159359	19290	15995
15°	389397	15616	13941
20°	742896	11608	12763
25°	1400059	8327	11149
30°	1785151	5918	9810
35°	1679265	3619	8397
40°	963361	2453	7208
45°	371880	1713	6097
50°	49463	1236	5034
55°	7516	1165	4222
60°	2170	1066	3507
65°	1261	1261	2567
70°	793	1558	1954
75°	1048	1572	1572
80°	0	2343	1562
85°	0	4668	1667

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.2
10°-20°	268.5	10.7
20°-30°	856.3	34.2
30°-40°	992.2	39.6
40°-50°	322.6	12.9
50°-60°	20.4	0.8
60°-70°	7.4	0.3
70°-80°	5.2	0.2
80°-90°	3.2	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°	1154.3	46.1
0°-40°	2146.5	85.7
0°-60°	2489.5	99.4
0°-90°	2505.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	374	313	224	196	193	73
15°	3883	1399	156	134	139	1231
25°	13098	2012	78	82	104	5885
35°	14199	480	31	47	71	8170
45°	2714	58	12	28	44	2424
55°	44	11	7	15	25	69
65°	6	4	6	11	11	5
75°	3	4	4	7	4	2
85°	0	3	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°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	287.9	290.7	290.7	286.5	286.5	282.2	279.5	278.2	276.7	272.5	271.2
5°	374.1	376.8	378.3	367.1	363.0	354.6	347.7	340.7	332.3	322.6	312.9
7.5°	721.8	663.3	673.1	589.6	574.4	538.2	508.9	463.0	429.7	396.3	369.9
10°	1620.0	1564.5	1554.8	1432.3	1311.4	1221.0	1123.6	955.4	802.3	639.6	507.6
12.5°	2775.7	2693.6	2647.7	2407.1	2265.3	2131.8	1983.0	1720.2	1426.7	1176.4	915.1
15°	3882.6	3875.6	3711.5	3443.0	3173.3	3009.4	2817.4	2492.0	2144.3	1763.2	1398.9
17.5°	5218.9	5273.2	4992.3	4468.0	4041.1	3774.1	3509.8	3000.9	2567.0	2197.2	1798.1
20°	7206.1	7061.4	6570.7	5750.2	5028.4	4626.6	4216.3	3466.7	2845.2	2397.4	1992.7
22.5°	9541.0	9429.6	8511.8	7143.6	5999.1	5434.4	4870.0	3895.1	3085.8	2505.9	2030.3
25°	13098.1	12640.5	10859.2	8638.4	6889.0	6089.4	5364.9	4173.1	3194.2	2519.7	2012.2
26°	14189.7	13868.5	11813.2	9232.2	7163.0	6270.3	5488.7	4230.1	3202.6	2507.3	1977.4
27°	14964.2	14719.6	12607.2	9668.8	7361.8	6395.4	5569.4	4253.8	3183.0	2480.8	1930.1
28°	15474.6	15278.5	13206.5	9984.6	7482.9	6462.1	5608.3	4248.3	3144.1	2435.0	1863.4
29°	15798.6	15609.5	13556.9	10163.9	7525.9	6473.3	5598.6	4206.5	3081.6	2366.8	1767.5
30°	15958.5	15752.7	13675.2	10183.4	7478.6	6409.3	5524.9	4114.8	2995.4	2284.8	1661.8
31°	15960.0	15731.9	13576.5	10033.2	7338.2	6273.0	5394.1	3961.9	2882.6	2187.4	1519.9
32°	15774.9	15540.0	13246.8	9728.6	7118.4	6101.9	5218.9	3806.1	2764.5	2079.0	1315.5
33°	15464.8	15186.8	12675.4	9305.9	6837.5	5868.3	5009.0	3632.3	2646.2	1905.2	1047.1
34°	14964.2	14584.6	11877.1	8792.8	6498.2	5595.8	4768.4	3444.5	2526.7	1663.2	748.2
35°	14199.4	13664.0	10953.8	8225.3	6135.4	5301.0	4497.2	3248.5	2380.7	1364.2	479.8
36°	13092.6	12401.4	9992.8	7638.6	5761.2	4990.9	4221.9	3059.4	2149.8	1034.6	314.3
37°	11647.7	11038.6	9073.7	7047.5	5373.3	4660.0	3970.1	2868.8	1866.2	723.1	255.9
38°	10163.9	9714.8	8175.3	6460.6	4971.4	4302.5	3664.2	2669.9	1556.1	475.5	214.2
39°	8826.1	8525.7	7296.5	5879.5	4557.0	3989.7	3358.3	2416.8	1225.2	338.0	180.8
40°	7617.8	7410.6	6446.8	5287.0	4142.7	3611.4	3070.5	2106.7	883.0	269.7	151.6
42.5°	5195.3	5092.4	4509.8	3804.7	3064.9	2760.3	2418.3	1266.8	350.5	171.1	91.7
45°	2714.4	2669.9	2458.6	2227.7	1998.3	1919.0	1554.8	568.7	197.5	100.2	58.3
47.5°	1056.8	1059.6	876.1	748.2	710.6	660.6	500.6	204.5	111.3	61.2	38.9
50°	328.2	353.2	325.4	307.3	235.1	196.1	162.6	101.5	59.8	37.6	25.0
51°	201.7	214.2	201.7	201.7	165.4	144.7	123.8	77.9	47.3	30.6	22.2
52°	130.7	137.7	130.7	122.3	114.0	102.9	89.0	58.3	37.6	25.0	18.1
53°	89.0	93.1	89.0	83.4	76.5	71.0	62.6	43.1	30.6	20.9	15.3
54°	62.6	65.3	62.6	58.3	54.2	50.1	45.8	33.4	25.0	18.1	13.9
55°	44.5	47.3	45.8	43.1	38.9	37.6	34.8	26.4	20.9	15.3	11.2
57.5°	20.9	22.2	22.2	20.9	20.9	19.4	18.1	16.7	12.5	9.7	8.2
60°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	8.2	6.9	6.9
61°	8.2	8.2	8.2	8.2	8.2	8.2	9.7	8.2	6.9	6.9	5.5
62°	6.9	6.9	6.9	6.9	6.9	8.2	8.2	6.9	6.9	5.5	5.5
63°	5.5	5.5	5.5	5.5	6.9	6.9	6.9	6.9	5.5	5.5	5.5
64°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.2
65°	5.5	5.5	4.2	4.2	4.2	5.5	4.2	5.5	4.2	4.2	4.2
66°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
77.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.8	2.8	4.2
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.8	2.8
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.8	2.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	262.8	255.9	253.1	250.3	248.9	246.1	241.9	237.8	236.4	230.9	225.2
5°	296.2	283.7	274.0	264.3	261.5	254.6	246.1	236.4	232.2	223.9	217.0
7.5°	335.1	310.1	292.0	275.3	268.4	260.0	244.8	232.2	223.9	211.4	203.0
10°	400.5	342.0	307.3	278.2	267.0	255.9	236.4	219.7	208.6	196.1	186.3
12.5°	634.2	443.6	333.8	279.5	264.3	247.5	223.9	204.5	190.5	176.6	168.3
15°	999.8	675.8	432.5	293.4	258.6	233.6	205.8	183.6	169.7	155.7	147.5
17.5°	1335.0	909.4	564.7	326.8	261.5	221.1	183.6	161.3	146.0	133.5	128.0
20°	1496.3	1019.3	628.6	333.8	244.8	197.5	158.5	137.7	123.8	112.6	107.1
22.5°	1511.6	1012.3	589.6	285.1	203.0	166.9	133.5	114.0	102.9	94.6	89.0
25°	1439.2	898.4	472.7	209.9	158.5	139.0	109.9	93.1	84.9	77.9	73.7
26°	1383.6	832.9	415.7	182.1	144.7	126.5	100.2	86.2	77.9	72.3	68.2
27°	1307.1	756.5	349.0	157.2	133.5	114.0	91.7	79.2	72.3	68.2	64.0
28°	1215.4	681.5	289.2	139.0	121.0	102.9	84.9	72.3	66.7	62.6	58.3
29°	1116.6	582.6	226.7	125.1	108.4	93.1	76.5	65.3	59.8	57.0	54.2
30°	977.6	453.3	173.8	112.6	97.4	83.4	69.5	59.8	55.6	52.9	50.1
31°	781.5	311.6	140.5	100.2	87.7	75.0	62.6	54.2	50.1	47.3	45.8
32°	560.4	191.8	122.3	89.0	77.9	68.2	54.2	48.6	44.5	43.1	41.7
33°	344.9	157.2	108.4	79.2	68.2	59.8	48.6	43.1	40.4	38.9	37.6
34°	226.7	136.3	95.9	68.2	59.8	51.5	41.7	37.6	36.1	34.8	34.8
35°	191.8	121.0	83.4	58.3	50.1	44.5	36.1	33.4	31.9	30.6	31.9
36°	165.4	105.6	69.5	50.1	43.1	37.6	31.9	29.2	27.9	27.9	29.2
37°	146.0	89.0	58.3	41.7	37.6	33.4	27.9	26.4	25.0	25.0	26.4
38°	123.8	72.3	48.6	36.1	31.9	27.9	25.0	23.7	23.7	23.7	25.0
39°	101.5	61.2	41.7	30.6	27.9	25.0	22.2	20.9	20.9	22.2	22.2
40°	83.4	51.5	34.8	26.4	23.7	22.2	19.4	19.4	19.4	19.4	20.9
42.5°	54.2	34.8	25.0	19.4	18.1	16.7	15.3	15.3	15.3	15.3	16.7
45°	36.1	25.0	19.4	15.3	13.9	12.5	12.5	11.2	12.5	12.5	13.9
47.5°	25.0	18.1	13.9	11.2	9.7	8.2	8.2	8.2	9.7	11.2	11.2
50°	18.1	12.5	9.7	6.9	6.9	6.9	6.9	6.9	8.2	8.2	9.7
51°	15.3	11.2	8.2	6.9	6.9	5.5	5.5	5.5	6.9	8.2	9.7
52°	12.5	9.7	6.9	5.5	5.5	5.5	5.5	5.5	6.9	6.9	8.2
53°	11.2	8.2	6.9	5.5	5.5	5.5	5.5	5.5	6.9	6.9	8.2
54°	9.7	6.9	5.5	5.5	5.5	4.2	4.2	5.5	5.5	6.9	8.2
55°	8.2	6.9	5.5	5.5	4.2	4.2	4.2	4.2	5.5	6.9	6.9
57.5°	6.9	5.5	5.5	4.2	4.2	4.2	4.2	4.2	5.5	5.5	6.9
60°	5.5	5.5	5.5	4.2	4.2	4.2	4.2	4.2	5.5	5.5	6.9
61°	5.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5	5.5	6.9
62°	5.5	4.2	5.5	5.5	5.5	4.2	4.2	4.2	5.5	5.5	6.9
63°	5.5	5.5	5.5	5.5	5.5	4.2	4.2	4.2	5.5	5.5	5.5
64°	5.5	5.5	5.5	5.5	5.5	5.5	4.2	4.2	5.5	5.5	6.9
65°	4.2	5.5	5.5	5.5	5.5	5.5	4.2	4.2	5.5	5.5	6.9
66°	4.2	5.5	5.5	5.5	5.5	5.5	5.5	4.2	5.5	5.5	5.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.2	4.2	5.5	5.5	5.5	5.5	5.5	4.2	4.2	5.5	5.5
75°	4.2	4.2	5.5	5.5	5.5	5.5	5.5	4.2	4.2	4.2	5.5
77.5°	4.2	4.2	5.5	5.5	5.5	5.5	5.5	4.2	4.2	4.2	5.5
80°	4.2	4.2	5.5	5.5	5.5	5.5	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	5.5	5.5	4.2	4.2	4.2	4.2	4.2	4.2
85°	4.2	4.2	4.2	5.5	5.5	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	222.4	222.4	221.1	218.4	221.1	218.4	215.5	214.2	212.7	211.4	208.6
5°	211.4	209.9	207.2	205.8	205.8	203.0	200.2	197.5	196.1	194.8	191.8
7.5°	197.5	196.1	191.8	190.5	190.5	187.8	183.6	182.1	180.8	179.4	176.6
10°	180.8	179.4	175.1	173.8	173.8	171.1	168.3	165.4	164.1	162.6	159.9
12.5°	161.3	159.9	157.2	155.7	155.7	152.9	150.2	148.8	148.8	147.5	146.0
15°	141.8	140.5	137.7	137.7	137.7	135.0	133.5	132.1	133.5	133.5	132.1
17.5°	122.3	121.0	118.3	118.3	118.3	118.3	116.8	116.8	118.3	119.6	119.6
20°	102.9	101.5	101.5	100.2	101.5	102.9	101.5	102.9	105.6	107.1	108.4
22.5°	84.9	84.9	84.9	84.9	86.2	87.7	87.7	90.4	93.1	94.6	97.4
25°	71.0	71.0	72.3	72.3	73.7	75.0	76.5	77.9	82.0	84.9	86.2
26°	65.3	66.7	66.7	68.2	69.5	71.0	72.3	73.7	77.9	80.7	82.0
27°	61.2	61.2	62.6	64.0	65.3	66.7	68.2	71.0	73.7	76.5	79.2
28°	57.0	57.0	58.3	59.8	61.2	62.6	64.0	66.7	69.5	73.7	75.0
29°	52.9	54.2	54.2	55.6	57.0	58.3	61.2	62.6	66.7	69.5	72.3
30°	48.6	50.1	51.5	51.5	52.9	54.2	57.0	59.8	62.6	66.7	68.2
31°	45.8	47.3	47.3	48.6	50.1	51.5	54.2	57.0	59.8	62.6	65.3
32°	41.7	44.5	44.5	44.5	45.8	48.6	51.5	52.9	57.0	59.8	61.2
33°	38.9	40.4	41.7	41.7	43.1	45.8	48.6	50.1	54.2	57.0	58.3
34°	36.1	37.6	38.9	38.9	40.4	43.1	45.8	47.3	51.5	52.9	55.6
35°	33.4	34.8	36.1	36.1	37.6	40.4	43.1	44.5	47.3	50.1	52.9
36°	30.6	31.9	33.4	34.8	36.1	38.9	40.4	43.1	44.5	47.3	50.1
37°	27.9	29.2	31.9	31.9	34.8	36.1	38.9	40.4	43.1	44.5	47.3
38°	25.0	27.9	29.2	30.6	31.9	34.8	36.1	37.6	40.4	43.1	44.5
39°	23.7	26.4	27.9	29.2	30.6	31.9	33.4	36.1	37.6	40.4	41.7
40°	22.2	23.7	26.4	26.4	29.2	30.6	31.9	33.4	36.1	37.6	40.4
42.5°	18.1	20.9	22.2	23.7	25.0	26.4	27.9	29.2	30.6	33.4	34.8
45°	15.3	18.1	19.4	19.4	20.9	22.2	23.7	25.0	27.9	29.2	30.6
47.5°	12.5	15.3	16.7	18.1	18.1	19.4	20.9	22.2	23.7	25.0	26.4
50°	11.2	12.5	13.9	15.3	16.7	16.7	18.1	19.4	20.9	22.2	22.2
51°	11.2	12.5	13.9	13.9	15.3	16.7	18.1	18.1	19.4	20.9	20.9
52°	9.7	11.2	12.5	13.9	15.3	15.3	16.7	18.1	18.1	19.4	20.9
53°	9.7	11.2	12.5	12.5	13.9	15.3	15.3	16.7	18.1	18.1	19.4
54°	8.2	11.2	12.5	12.5	13.9	13.9	15.3	16.7	16.7	16.7	18.1
55°	8.2	9.7	11.2	12.5	12.5	13.9	13.9	15.3	15.3	16.7	16.7
57.5°	8.2	9.7	11.2	11.2	12.5	12.5	13.9	13.9	13.9	13.9	15.3
60°	6.9	8.2	9.7	11.2	11.2	12.5	12.5	12.5	12.5	12.5	13.9
61°	6.9	8.2	9.7	9.7	11.2	11.2	12.5	12.5	12.5	12.5	12.5
62°	6.9	8.2	9.7	9.7	11.2	11.2	11.2	12.5	12.5	12.5	12.5
63°	6.9	8.2	9.7	9.7	11.2	11.2	11.2	11.2	11.2	11.2	12.5
64°	6.9	8.2	9.7	9.7	11.2	11.2	11.2	11.2	11.2	11.2	11.2
65°	6.9	8.2	9.7	9.7	9.7	11.2	11.2	11.2	11.2	11.2	11.2
66°	6.9	8.2	9.7	9.7	9.7	9.7	11.2	11.2	11.2	11.2	9.7

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212346

CATALOG NUMBER: LDSQA4A35927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.5	6.9	6.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	6.9
75°	5.5	6.9	6.9	6.9	8.2	8.2	8.2	6.9	6.9	6.9	6.9
77.5°	5.5	5.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	5.5	5.5
80°	5.5	5.5	5.5	6.9	6.9	6.9	6.9	5.5	5.5	5.5	4.2
82.5°	4.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.2	4.2	4.2
85°	4.2	5.5	5.5	5.5	5.5	5.5	5.5	4.2	4.2	4.2	2.8
87.5°	4.2	4.2	4.2	5.5	5.5	5.5	4.2	4.2	2.8	2.8	2.8
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: P1212346

CATALOG NUMBER: LDSQA4A35927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	211.4	212.7	211.4	211.4	208.6	209.9	207.2	211.4
5°	193.3	194.8	193.3	193.3	190.5	190.5	189.1	193.3
7.5°	178.0	179.4	176.6	176.6	173.8	175.1	173.8	176.6
10°	162.6	162.6	162.6	161.3	159.9	161.3	159.9	162.6
12.5°	147.5	148.8	148.8	148.8	147.5	147.5	146.0	150.2
15°	135.0	136.3	137.7	137.7	136.3	137.7	136.3	139.0
17.5°	123.8	126.5	126.5	128.0	128.0	129.3	129.3	132.1
20°	112.6	116.8	116.8	118.3	118.3	121.0	121.0	123.8
22.5°	101.5	105.6	107.1	107.1	108.4	111.3	111.3	114.0
25°	91.7	95.9	97.4	97.4	98.7	101.5	101.5	104.3
26°	87.7	91.7	93.1	94.6	95.9	98.7	98.7	101.5
27°	83.4	87.7	89.0	90.4	91.7	94.6	94.6	97.4
28°	80.7	84.9	86.2	87.7	89.0	91.7	91.7	93.1
29°	76.5	80.7	82.0	83.4	84.9	87.7	87.7	90.4
30°	73.7	76.5	77.9	79.2	80.7	84.9	84.9	87.7
31°	69.5	73.7	75.0	76.5	77.9	80.7	80.7	84.9
32°	66.7	69.5	71.0	72.3	75.0	76.5	77.9	80.7
33°	62.6	66.7	68.2	69.5	71.0	73.7	75.0	77.9
34°	59.8	62.6	65.3	66.7	68.2	71.0	72.3	75.0
35°	57.0	59.8	61.2	62.6	65.3	68.2	68.2	71.0
36°	54.2	57.0	58.3	59.8	62.6	65.3	65.3	68.2
37°	51.5	54.2	55.6	57.0	59.8	62.6	62.6	65.3
38°	48.6	51.5	52.9	54.2	57.0	59.8	61.2	64.0
39°	45.8	50.1	51.5	52.9	54.2	57.0	58.3	59.8
40°	44.5	47.3	48.6	50.1	51.5	54.2	55.6	57.0
42.5°	37.6	41.7	43.1	44.5	45.8	47.3	48.6	50.1
45°	33.4	36.1	36.1	37.6	38.9	41.7	41.7	44.5
47.5°	29.2	30.6	31.9	31.9	33.4	36.1	36.1	37.6
50°	25.0	26.4	27.9	27.9	29.2	30.6	31.9	33.4
51°	23.7	25.0	25.0	26.4	27.9	29.2	30.6	31.9
52°	22.2	23.7	23.7	25.0	26.4	27.9	27.9	29.2
53°	20.9	22.2	22.2	23.7	23.7	26.4	26.4	27.9
54°	19.4	20.9	20.9	22.2	22.2	25.0	25.0	26.4
55°	18.1	19.4	20.9	20.9	20.9	22.2	23.7	25.0
57.5°	16.7	18.1	18.1	18.1	19.4	19.4	20.9	20.9
60°	13.9	15.3	15.3	15.3	16.7	16.7	16.7	18.1
61°	13.9	13.9	15.3	15.3	13.9	13.9	13.9	15.3
62°	12.5	13.9	13.9	12.5	12.5	12.5	12.5	13.9
63°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
64°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
65°	11.2	11.2	11.2	11.2	11.2	11.2	9.7	11.2
66°	9.7	11.2	11.2	9.7	9.7	9.7	9.7	9.7



TEST NUMBER: P1212346

CATALOG NUMBER: LDSQA4A35927D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	6.9	6.9	6.9	6.9	6.9	5.5	5.5	5.5
75°	6.9	5.5	5.5	5.5	5.5	5.5	5.5	4.2
77.5°	5.5	5.5	5.5	5.5	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8
82.5°	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	2.8	1.5	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

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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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

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Peachtree City, GA 30269

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67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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67.5°	4.2	4.2	5.5	5.5	5.5	5.5	4.2	4.2	4.2	5.5	5.5
70°	4.2	5.5	5.5	5.5	5.5	5.5	5.5	4.2	4.2	5.5	5.5

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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67.5°	6.9	8.2	8.2	8.2	9.7	9.7	9.7	9.7	9.7	9.7	9.7
70°	6.9	6.9	8.2	8.2	8.2	9.7	9.7	8.2	8.2	8.2	8.2

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67.5°	9.7	9.7	9.7	9.7	8.2	8.2	8.2	8.2
70°	8.2	8.2	8.2	8.2	6.9	6.9	6.9	6.9

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Scaled Data Report



(END OF REPORT)