

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: P1212220

Luminaire Tested: **LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212220
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: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

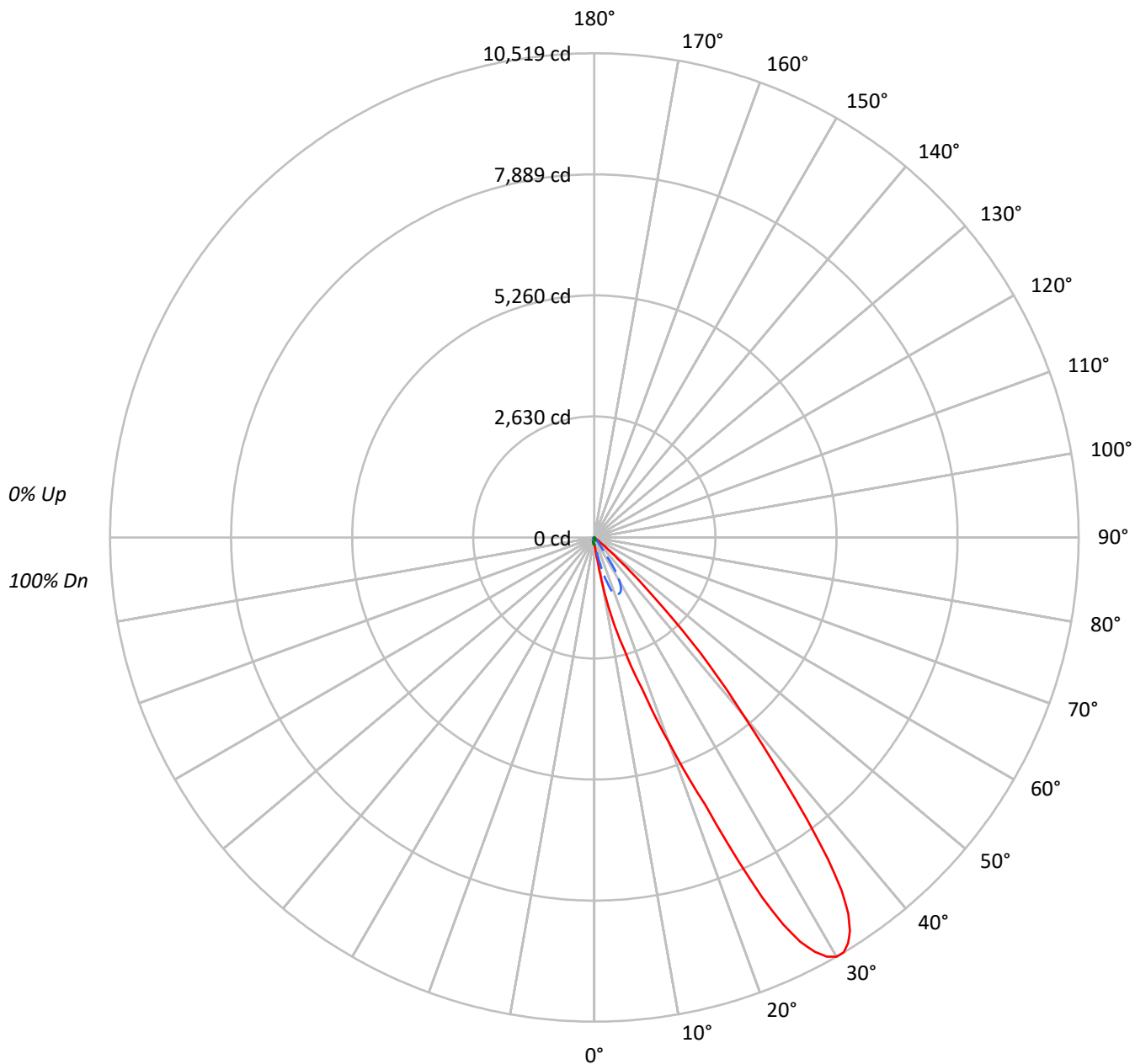
Lumens per Lamp: N/A
Luminaire Lumens: 1651.3 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

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	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°	15093	15093	15093
5°	23981	14353	12389
10°	105039	12719	10545
15°	256639	10290	9187
20°	489628	7649	8402
25°	922740	5494	7343
30°	1176554	3904	6466
35°	1106777	2389	5523
40°	634927	1619	4742
45°	245098	1123	4028
50°	32599	829	3331
55°	4966	777	2804
60°	1434	717	2325
65°	848	848	1696
70°	510	1048	1303
75°	674	1011	1011
80°	0	1506	1004
85°	0	3001	1112



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	1.2
10°-20°	177.0	10.7
20°-30°	564.3	34.2
30°-40°	653.9	39.6
40°-50°	212.7	12.9
50°-60°	13.5	0.8
60°-70°	4.9	0.3
70°-80°	3.5	0.2
80°-90°	2.1	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°	760.7	46.1
0°-40°	1414.7	85.7
0°-60°	1640.8	99.4
0°-90°	1651.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	156	156	156	156	156	
5°	247	206	148	129	127	48
15°	2559	922	103	88	92	811
25°	8633	1326	51	54	69	3879
35°	9359	316	20	31	47	5385
45°	1789	38	8	18	29	1597
55°	29	7	5	10	17	45
65°	4	3	4	7	7	3
75°	2	3	3	5	3	1
85°	0	2	3	3	1	0
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
2.5°	189.7	191.6	191.6	188.8	188.8	186.1	184.2	183.4	182.4	179.6	178.6
5°	246.6	248.3	249.3	242.0	239.2	233.7	229.1	224.6	219.0	212.6	206.2
7.5°	475.7	437.2	443.5	388.6	378.6	354.6	335.4	305.3	283.2	261.3	243.8
10°	1067.8	1031.0	1024.7	944.0	864.2	804.6	740.6	629.6	528.9	421.6	334.6
12.5°	1829.4	1775.3	1745.0	1586.6	1493.0	1405.0	1307.0	1133.7	940.4	775.4	603.1
15°	2558.9	2554.3	2446.2	2269.3	2091.4	1983.4	1856.8	1642.4	1413.3	1162.1	921.9
17.5°	3439.7	3475.4	3290.2	2944.8	2663.4	2487.4	2313.3	1977.8	1691.8	1448.1	1185.1
20°	4749.4	4654.1	4330.6	3789.8	3314.1	3049.3	2778.9	2284.9	1875.2	1580.1	1313.3
22.5°	6288.2	6214.8	5610.0	4708.1	3953.8	3581.8	3209.7	2567.1	2033.8	1651.5	1338.1
25°	8632.6	8331.1	7157.0	5693.4	4540.4	4013.4	3535.9	2750.5	2105.3	1660.6	1326.2
26°	9352.1	9140.3	7785.8	6084.7	4721.0	4132.6	3617.4	2788.0	2110.7	1652.5	1303.4
27°	9862.6	9701.4	8309.1	6372.5	4852.0	4215.0	3670.7	2803.6	2097.9	1635.1	1272.2
28°	10199.0	10069.7	8704.1	6580.6	4931.8	4259.0	3696.2	2800.0	2072.2	1604.8	1228.2
29°	10412.5	10287.9	8935.0	6698.7	4960.2	4266.4	3689.9	2772.4	2031.0	1559.9	1164.9
30°	10517.9	10382.2	9013.0	6711.7	4929.0	4224.2	3641.4	2712.0	1974.2	1505.8	1095.2
31°	10518.8	10368.5	8947.9	6612.6	4836.4	4134.4	3555.1	2611.1	1900.0	1441.7	1001.8
32°	10396.9	10242.0	8730.7	6411.9	4691.7	4021.7	3439.7	2508.5	1822.0	1370.2	867.0
33°	10192.5	10009.3	8354.0	6133.3	4506.6	3867.7	3301.3	2394.0	1744.1	1255.6	690.2
34°	9862.6	9612.4	7828.0	5795.1	4282.8	3688.1	3142.6	2270.2	1665.4	1096.2	493.0
35°	9358.6	9005.7	7219.4	5421.2	4043.6	3493.8	2964.0	2141.0	1569.0	899.1	316.2
36°	8629.0	8173.4	6586.1	5034.4	3797.1	3289.4	2782.6	2016.3	1416.9	681.9	207.2
37°	7676.8	7275.4	5980.2	4644.9	3541.4	3071.2	2616.6	1890.7	1230.0	476.6	168.7
38°	6698.7	6402.7	5388.2	4258.1	3276.5	2835.7	2415.0	1759.7	1025.5	313.4	141.1
39°	5817.1	5619.1	4809.0	3875.0	3003.4	2629.4	2213.4	1592.9	807.4	222.6	119.2
40°	5020.7	4884.1	4249.0	3484.6	2730.3	2380.2	2023.6	1388.5	582.0	177.8	99.9
42.5°	3424.1	3356.3	2972.2	2507.5	2020.0	1819.3	1593.8	834.9	231.0	112.7	60.6
45°	1789.0	1759.7	1620.4	1468.2	1317.0	1264.7	1024.7	374.8	130.1	66.1	38.5
47.5°	696.6	698.4	577.4	493.0	468.3	435.4	330.0	134.7	73.3	40.3	25.7
50°	216.3	232.7	214.5	202.6	154.9	129.3	107.2	66.9	39.4	24.7	16.6
51°	132.9	141.1	132.9	132.9	109.1	95.4	81.5	51.4	31.2	20.2	14.6
52°	86.1	90.7	86.1	80.7	75.2	67.8	58.6	38.5	24.7	16.6	12.0
53°	58.6	61.4	58.6	55.0	50.4	46.7	41.3	28.4	20.2	13.8	10.1
54°	41.3	43.0	41.3	38.5	35.8	33.0	30.2	22.1	16.6	12.0	9.1
55°	29.4	31.2	30.2	28.4	25.7	24.7	22.9	17.4	13.8	10.1	7.4
57.5°	13.8	14.6	14.6	13.8	13.8	12.8	12.0	11.0	8.2	6.5	5.5
60°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	5.5	4.6	4.6
61°	5.5	5.5	5.5	5.5	5.5	5.5	6.5	5.5	4.6	4.6	3.7
62°	4.6	4.6	4.6	4.6	4.6	5.5	5.5	4.6	4.6	3.7	3.7
63°	3.7	3.7	3.7	3.7	4.6	4.6	4.6	4.6	3.7	3.7	3.7
64°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7
65°	3.7	3.7	2.7	2.7	2.7	3.7	2.7	3.7	2.7	2.7	2.7
66°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7
77.5°	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.8	1.8	2.7
80°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.8	1.8
85°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.8	1.8
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: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
2.5°	173.3	168.7	166.8	165.0	164.0	162.2	159.4	156.7	155.8	152.2	148.5
5°	195.2	187.0	180.6	174.1	172.3	167.8	162.2	155.8	153.1	147.6	143.0
7.5°	220.9	204.3	192.5	181.4	176.9	171.4	161.3	153.1	147.6	139.4	133.8
10°	263.9	225.4	202.6	183.4	176.0	168.7	155.8	144.8	137.5	129.3	122.8
12.5°	418.0	292.3	220.0	184.2	174.1	163.2	147.6	134.7	125.5	116.4	110.9
15°	659.0	445.4	285.0	193.4	170.5	154.0	135.6	121.0	111.8	102.6	97.1
17.5°	879.8	599.4	372.1	215.4	172.3	145.7	121.0	106.3	96.2	88.0	84.3
20°	986.2	671.8	414.2	220.0	161.3	130.1	104.5	90.7	81.5	74.2	70.6
22.5°	996.2	667.3	388.6	187.9	133.8	110.0	88.0	75.2	67.8	62.3	58.6
25°	948.6	592.1	311.6	138.4	104.5	91.6	72.4	61.4	55.9	51.4	48.6
26°	912.0	549.0	274.1	120.0	95.4	83.4	66.1	56.8	51.4	47.6	45.0
27°	861.5	498.6	230.1	103.6	88.0	75.2	60.6	52.2	47.6	45.0	42.1
28°	801.0	449.0	190.6	91.6	79.8	67.8	55.9	47.6	44.0	41.3	38.5
29°	736.0	384.0	149.4	82.5	71.4	61.4	50.4	43.0	39.4	37.5	35.8
30°	644.3	298.8	114.6	74.2	64.2	55.0	45.8	39.4	36.7	34.9	33.0
31°	515.1	205.3	92.6	66.1	57.8	49.5	41.3	35.8	33.0	31.2	30.2
32°	369.3	126.5	80.7	58.6	51.4	45.0	35.8	32.0	29.4	28.4	27.4
33°	227.4	103.6	71.4	52.2	45.0	39.4	32.0	28.4	26.6	25.7	24.7
34°	149.4	89.8	63.2	45.0	39.4	33.9	27.4	24.7	23.8	22.9	22.9
35°	126.5	79.8	55.0	38.5	33.0	29.4	23.8	22.1	21.1	20.2	21.1
36°	109.1	69.7	45.8	33.0	28.4	24.7	21.1	19.2	18.3	18.3	19.2
37°	96.2	58.6	38.5	27.4	24.7	22.1	18.3	17.4	16.6	16.6	17.4
38°	81.5	47.6	32.0	23.8	21.1	18.3	16.6	15.6	15.6	15.6	16.6
39°	66.9	40.3	27.4	20.2	18.3	16.6	14.6	13.8	13.8	14.6	14.6
40°	55.0	33.9	22.9	17.4	15.6	14.6	12.8	12.8	12.8	12.8	13.8
42.5°	35.8	22.9	16.6	12.8	12.0	11.0	10.1	10.1	10.1	10.1	11.0
45°	23.8	16.6	12.8	10.1	9.1	8.2	8.2	7.4	8.2	8.2	9.1
47.5°	16.6	12.0	9.1	7.4	6.5	5.5	5.5	5.5	6.5	7.4	7.4
50°	12.0	8.2	6.5	4.6	4.6	4.6	4.6	4.6	5.5	5.5	6.5
51°	10.1	7.4	5.5	4.6	4.6	3.7	3.7	3.7	4.6	5.5	6.5
52°	8.2	6.5	4.6	3.7	3.7	3.7	3.7	3.7	4.6	4.6	5.5
53°	7.4	5.5	4.6	3.7	3.7	3.7	3.7	3.7	4.6	4.6	5.5
54°	6.5	4.6	3.7	3.7	3.7	2.7	2.7	3.7	3.7	4.6	5.5
55°	5.5	4.6	3.7	3.7	2.7	2.7	2.7	2.7	3.7	4.6	4.6
57.5°	4.6	3.7	3.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	4.6
60°	3.7	3.7	3.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	4.6
61°	3.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	4.6
62°	3.7	2.7	3.7	3.7	3.7	2.7	2.7	2.7	3.7	3.7	4.6
63°	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	3.7	3.7	3.7
64°	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7	4.6
65°	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7	4.6
66°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	3.7	3.7	3.7



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.7	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7
75°	2.7	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	3.7
77.5°	2.7	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	3.7
80°	2.7	2.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	3.7	3.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	2.7	2.7	2.7	3.7	3.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
2.5°	146.6	146.6	145.7	143.9	145.7	143.9	142.1	141.1	140.2	139.4	137.5
5°	139.4	138.4	136.6	135.6	135.6	133.8	132.0	130.1	129.3	128.3	126.5
7.5°	130.1	129.3	126.5	125.5	125.5	123.8	121.0	120.0	119.2	118.2	116.4
10°	119.2	118.2	115.4	114.6	114.6	112.7	110.9	109.1	108.2	107.2	105.4
12.5°	106.3	105.4	103.6	102.6	102.6	100.8	99.0	98.1	98.1	97.1	96.2
15°	93.5	92.6	90.7	90.7	90.7	89.0	88.0	87.0	88.0	88.0	87.0
17.5°	80.7	79.8	77.9	77.9	77.9	77.9	77.0	77.0	77.9	78.8	78.8
20°	67.8	66.9	66.9	66.1	66.9	67.8	66.9	67.8	69.7	70.6	71.4
22.5°	55.9	55.9	55.9	55.9	56.8	57.8	57.8	59.6	61.4	62.3	64.2
25°	46.7	46.7	47.6	47.6	48.6	49.5	50.4	51.4	54.1	55.9	56.8
26°	43.0	44.0	44.0	45.0	45.8	46.7	47.6	48.6	51.4	53.1	54.1
27°	40.3	40.3	41.3	42.1	43.0	44.0	45.0	46.7	48.6	50.4	52.2
28°	37.5	37.5	38.5	39.4	40.3	41.3	42.1	44.0	45.8	48.6	49.5
29°	34.9	35.8	35.8	36.7	37.5	38.5	40.3	41.3	44.0	45.8	47.6
30°	32.0	33.0	33.9	33.9	34.9	35.8	37.5	39.4	41.3	44.0	45.0
31°	30.2	31.2	31.2	32.0	33.0	33.9	35.8	37.5	39.4	41.3	43.0
32°	27.4	29.4	29.4	29.4	30.2	32.0	33.9	34.9	37.5	39.4	40.3
33°	25.7	26.6	27.4	27.4	28.4	30.2	32.0	33.0	35.8	37.5	38.5
34°	23.8	24.7	25.7	25.7	26.6	28.4	30.2	31.2	33.9	34.9	36.7
35°	22.1	22.9	23.8	23.8	24.7	26.6	28.4	29.4	31.2	33.0	34.9
36°	20.2	21.1	22.1	22.9	23.8	25.7	26.6	28.4	29.4	31.2	33.0
37°	18.3	19.2	21.1	21.1	22.9	23.8	25.7	26.6	28.4	29.4	31.2
38°	16.6	18.3	19.2	20.2	21.1	22.9	23.8	24.7	26.6	28.4	29.4
39°	15.6	17.4	18.3	19.2	20.2	21.1	22.1	23.8	24.7	26.6	27.4
40°	14.6	15.6	17.4	17.4	19.2	20.2	21.1	22.1	23.8	24.7	26.6
42.5°	12.0	13.8	14.6	15.6	16.6	17.4	18.3	19.2	20.2	22.1	22.9
45°	10.1	12.0	12.8	12.8	13.8	14.6	15.6	16.6	18.3	19.2	20.2
47.5°	8.2	10.1	11.0	12.0	12.0	12.8	13.8	14.6	15.6	16.6	17.4
50°	7.4	8.2	9.1	10.1	11.0	11.0	12.0	12.8	13.8	14.6	14.6
51°	7.4	8.2	9.1	9.1	10.1	11.0	12.0	12.0	12.8	13.8	13.8
52°	6.5	7.4	8.2	9.1	10.1	10.1	11.0	12.0	12.0	12.8	13.8
53°	6.5	7.4	8.2	8.2	9.1	10.1	10.1	11.0	12.0	12.0	12.8
54°	5.5	7.4	8.2	8.2	9.1	9.1	10.1	11.0	11.0	11.0	12.0
55°	5.5	6.5	7.4	8.2	8.2	9.1	9.1	10.1	10.1	11.0	11.0
57.5°	5.5	6.5	7.4	7.4	8.2	8.2	9.1	9.1	9.1	9.1	10.1
60°	4.6	5.5	6.5	7.4	7.4	8.2	8.2	8.2	8.2	8.2	9.1
61°	4.6	5.5	6.5	6.5	7.4	7.4	8.2	8.2	8.2	8.2	8.2
62°	4.6	5.5	6.5	6.5	7.4	7.4	7.4	8.2	8.2	8.2	8.2
63°	4.6	5.5	6.5	6.5	7.4	7.4	7.4	7.4	7.4	7.4	8.2
64°	4.6	5.5	6.5	6.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4
65°	4.6	5.5	6.5	6.5	6.5	7.4	7.4	7.4	7.4	7.4	7.4
66°	4.6	5.5	6.5	6.5	6.5	6.5	7.4	7.4	7.4	7.4	6.5

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.7	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6
75°	3.7	4.6	4.6	4.6	5.5	5.5	5.5	4.6	4.6	4.6	4.6
77.5°	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.7	3.7
80°	3.7	3.7	3.7	4.6	4.6	4.6	4.6	3.7	3.7	3.7	2.7
82.5°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7
85°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	1.8
87.5°	2.7	2.7	2.7	3.7	3.7	3.7	2.7	2.7	1.8	1.8	1.8
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: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	155.8	155.8	155.8	155.8	155.8	155.8	155.8	155.8
2.5°	139.4	140.2	139.4	139.4	137.5	138.4	136.6	139.4
5°	127.4	128.3	127.4	127.4	125.5	125.5	124.7	127.4
7.5°	117.3	118.2	116.4	116.4	114.6	115.4	114.6	116.4
10°	107.2	107.2	107.2	106.3	105.4	106.3	105.4	107.2
12.5°	97.1	98.1	98.1	98.1	97.1	97.1	96.2	99.0
15°	89.0	89.8	90.7	90.7	89.8	90.7	89.8	91.6
17.5°	81.5	83.4	83.4	84.3	84.3	85.3	85.3	87.0
20°	74.2	77.0	77.0	77.9	77.9	79.8	79.8	81.5
22.5°	66.9	69.7	70.6	70.6	71.4	73.3	73.3	75.2
25°	60.6	63.2	64.2	64.2	65.1	66.9	66.9	68.7
26°	57.8	60.6	61.4	62.3	63.2	65.1	65.1	66.9
27°	55.0	57.8	58.6	59.6	60.6	62.3	62.3	64.2
28°	53.1	55.9	56.8	57.8	58.6	60.6	60.6	61.4
29°	50.4	53.1	54.1	55.0	55.9	57.8	57.8	59.6
30°	48.6	50.4	51.4	52.2	53.1	55.9	55.9	57.8
31°	45.8	48.6	49.5	50.4	51.4	53.1	53.1	55.9
32°	44.0	45.8	46.7	47.6	49.5	50.4	51.4	53.1
33°	41.3	44.0	45.0	45.8	46.7	48.6	49.5	51.4
34°	39.4	41.3	43.0	44.0	45.0	46.7	47.6	49.5
35°	37.5	39.4	40.3	41.3	43.0	45.0	45.0	46.7
36°	35.8	37.5	38.5	39.4	41.3	43.0	43.0	45.0
37°	33.9	35.8	36.7	37.5	39.4	41.3	41.3	43.0
38°	32.0	33.9	34.9	35.8	37.5	39.4	40.3	42.1
39°	30.2	33.0	33.9	34.9	35.8	37.5	38.5	39.4
40°	29.4	31.2	32.0	33.0	33.9	35.8	36.7	37.5
42.5°	24.7	27.4	28.4	29.4	30.2	31.2	32.0	33.0
45°	22.1	23.8	23.8	24.7	25.7	27.4	27.4	29.4
47.5°	19.2	20.2	21.1	21.1	22.1	23.8	23.8	24.7
50°	16.6	17.4	18.3	18.3	19.2	20.2	21.1	22.1
51°	15.6	16.6	16.6	17.4	18.3	19.2	20.2	21.1
52°	14.6	15.6	15.6	16.6	17.4	18.3	18.3	19.2
53°	13.8	14.6	14.6	15.6	15.6	17.4	17.4	18.3
54°	12.8	13.8	13.8	14.6	14.6	16.6	16.6	17.4
55°	12.0	12.8	13.8	13.8	13.8	14.6	15.6	16.6
57.5°	11.0	12.0	12.0	12.0	12.8	12.8	13.8	13.8
60°	9.1	10.1	10.1	10.1	11.0	11.0	11.0	12.0
61°	9.1	9.1	10.1	10.1	9.1	9.1	9.1	10.1
62°	8.2	9.1	9.1	8.2	8.2	8.2	8.2	9.1
63°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
64°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
65°	7.4	7.4	7.4	7.4	7.4	7.4	6.5	7.4
66°	6.5	7.4	7.4	6.5	6.5	6.5	6.5	6.5

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212220

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.6	4.6	4.6	4.6	4.6	3.7	3.7	3.7
75°	4.6	3.7	3.7	3.7	3.7	3.7	3.7	2.7
77.5°	3.7	3.7	3.7	3.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8
82.5°	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	1.8	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	2.7	2.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	3.7	3.7
70°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	4.6	5.5	5.5	5.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
70°	4.6	4.6	5.5	5.5	5.5	6.5	6.5	5.5	5.5	5.5	5.5

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



67.5°	6.5	6.5	6.5	6.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.5	5.5	4.6	4.6	4.6	4.6

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)