

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: P1192165

Luminaire Tested: **LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt**

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: P1192165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26267)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt
Description: PORTFOLIO 6" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

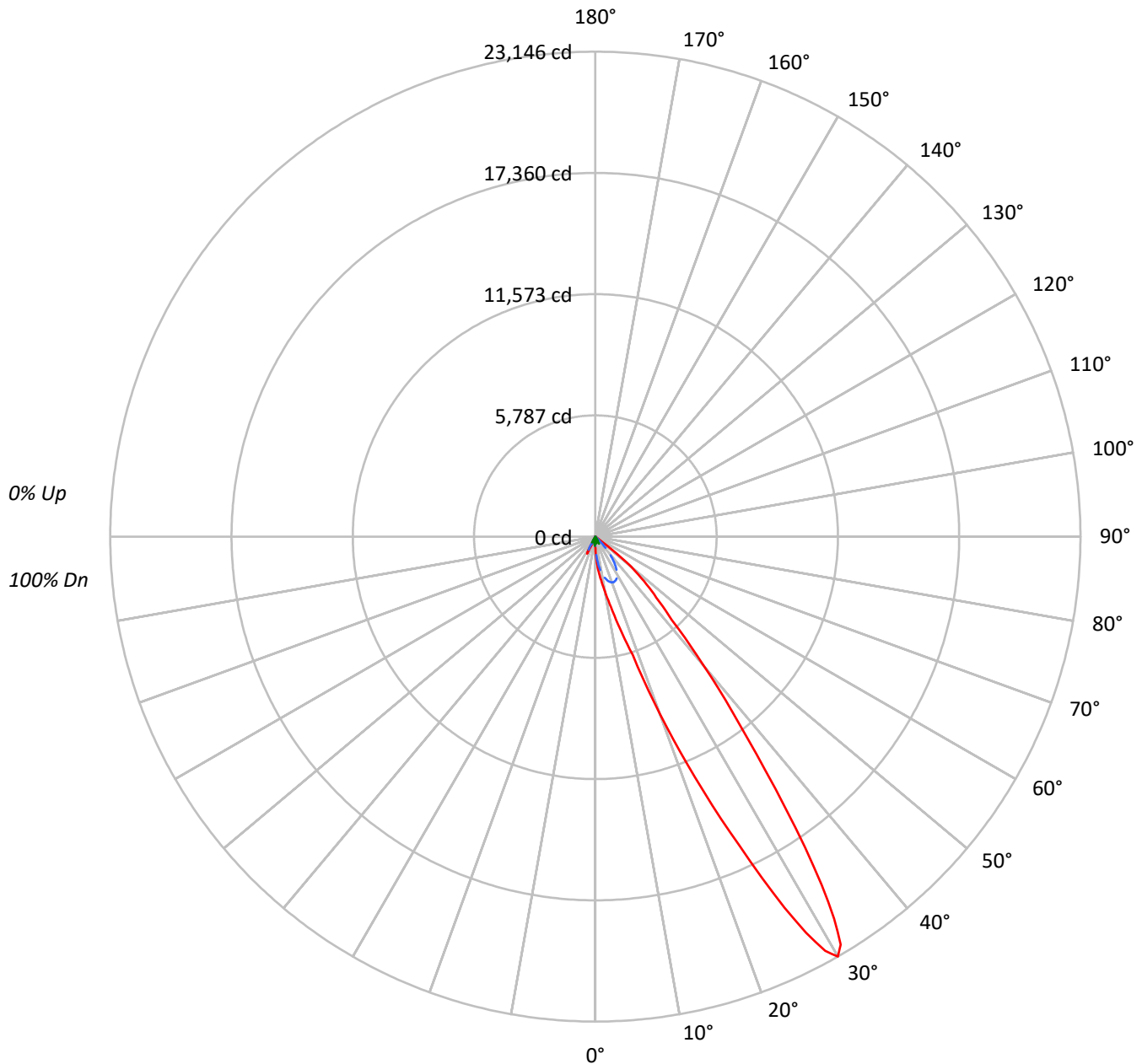
Lumens per Lamp: N/A
Luminaire Lumens: 3203.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 2.44 / 0.33 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

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	106	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	91	86	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	74	70	76	72	69	67		
5	87	77	70	64	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	63	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	47	43	65	54	47	43	53	47	42	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°	25837	25837	25837
5°	88389	21973	2939
10°	147926	12202	1442
15°	256948	4495	1220
20°	524958	2946	2112
25°	985418	5758	37248
30°	1465149	10033	6026
35°	1057364	770	482
40°	574312	315	0
45°	318793	341	0
50°	186544	375	0
55°	5935	268	0
60°	2050	482	0
65°	934	571	0
70°	705	705	0
75°	339	1186	0
80°	0	1768	0
85°	0	3522	0

TEST NUMBER: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	2.1
10°-20°	343.0	10.7
20°-30°	1103.7	34.5
30°-40°	1149.0	35.9
40°-50°	489.5	15.3
50°-60°	40.6	1.3
60°-70°	4.2	0.1
70°-80°	3.6	0.1
80°-90°	3.4	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°	1512.7	47.2
0°-40°	2661.7	83.1
0°-60°	3191.8	99.7
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	471	471	471	471	471	
5°	1606	1171	399	72	53	183
15°	4527	2156	79	28	22	1480
25°	16291	2296	95	287	616	7824
35°	15800	1639	12	10	7	9781
45°	4112	281	4	3	0	3382
55°	62	9	3	3	0	387
65°	7	4	4	3	0	8
75°	2	4	6	4	0	1
85°	0	4	6	4	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
72.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	1.6	1.6
75°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	67.5°	90°	112.5°
72.5°	1.6	2.8	2.8	2.8	0.0	0.0	0.0	4.4	5.6	4.4	5.6
75°	1.6	1.6	2.8	2.8	0.0	0.0	0.0	4.4	5.6	5.6	5.6
77.5°	1.6	1.6	2.8	2.8	0.0	0.0	0.0	4.4	5.6	5.6	7.2
80°	1.6	1.6	2.8	2.8	0.0	0.0	0.0	4.4	5.6	5.6	7.2
82.5°	1.6	1.6	2.8	2.8	0.0	0.0	0.0	4.4	5.6	5.6	7.2
85°	1.6	1.6	2.8	2.8	0.0	0.0	0.0	4.4	5.6	5.6	7.2
87.5°	1.6	1.6	2.8	2.8	0.0	0.0	0.0	4.4	5.6	5.6	7.2
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: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	471.3	471.3	471.3
2.5°	180.3	129.8	118.2
5°	72.1	59.3	53.4
7.5°	44.6	37.4	34.6
10°	36.2	27.5	25.9
12.5°	28.7	24.6	23.1
15°	27.5	23.1	21.5
17.5°	27.5	25.9	24.6
20°	34.6	34.6	36.2
22.5°	59.3	69.3	78.0
25°	286.9	464.2	615.8
26°	601.1	847.8	906.8
27°	745.5	771.4	741.1
28°	574.0	514.7	484.4
29°	307.2	256.7	234.9
30°	122.6	101.1	95.2
31°	59.3	50.5	49.0
32°	33.1	27.5	27.5
33°	20.3	17.2	15.9
34°	14.4	11.5	10.0
35°	10.0	8.7	7.2
36°	8.7	5.6	4.4
37°	7.2	4.4	4.4
38°	5.6	4.4	2.8
39°	4.4	2.8	1.6
40°	4.4	1.6	0.0
42.5°	2.8	1.6	0.0
45°	2.8	0.0	0.0
47.5°	4.4	2.8	1.6
50°	2.8	1.6	0.0
51°	2.8	0.0	0.0
52°	2.8	0.0	0.0
53°	2.8	0.0	0.0
54°	2.8	0.0	0.0
55°	2.8	0.0	0.0
57.5°	2.8	0.0	0.0
60°	2.8	0.0	0.0
61°	2.8	0.0	0.0
62°	2.8	0.0	0.0
63°	2.8	1.6	0.0
64°	2.8	1.6	0.0
65°	2.8	1.6	0.0
66°	2.8	1.6	0.0



TEST NUMBER: P1192165

CATALOG NUMBER: LDA6A35950D010TE LARL15SP 6LAL1 30° Tilt

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
72.5°	4.4	1.6	0.0
75°	4.4	1.6	0.0
77.5°	4.4	1.6	0.0
80°	4.4	1.6	0.0
82.5°	4.4	1.6	0.0
85°	4.4	1.6	0.0
87.5°	4.4	1.6	0.0
90°	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

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 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





67.5°	5.6	4.4	4.4	4.4	4.4	4.4	4.4	2.8	2.8	4.4	4.4
70°	4.4	4.4	4.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8

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°	4.4	4.4	4.4	4.4	1.6	0.0	0.0	4.4	5.6	4.4	5.6
70°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	4.4	5.6	4.4	5.6

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°	4.4	1.6	0.0
70°	4.4	1.6	0.0

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)