

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: P1192130

Luminaire Tested: **LDA6A30950D010TE 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: P1192130
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: LDA6A30950D010TE 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

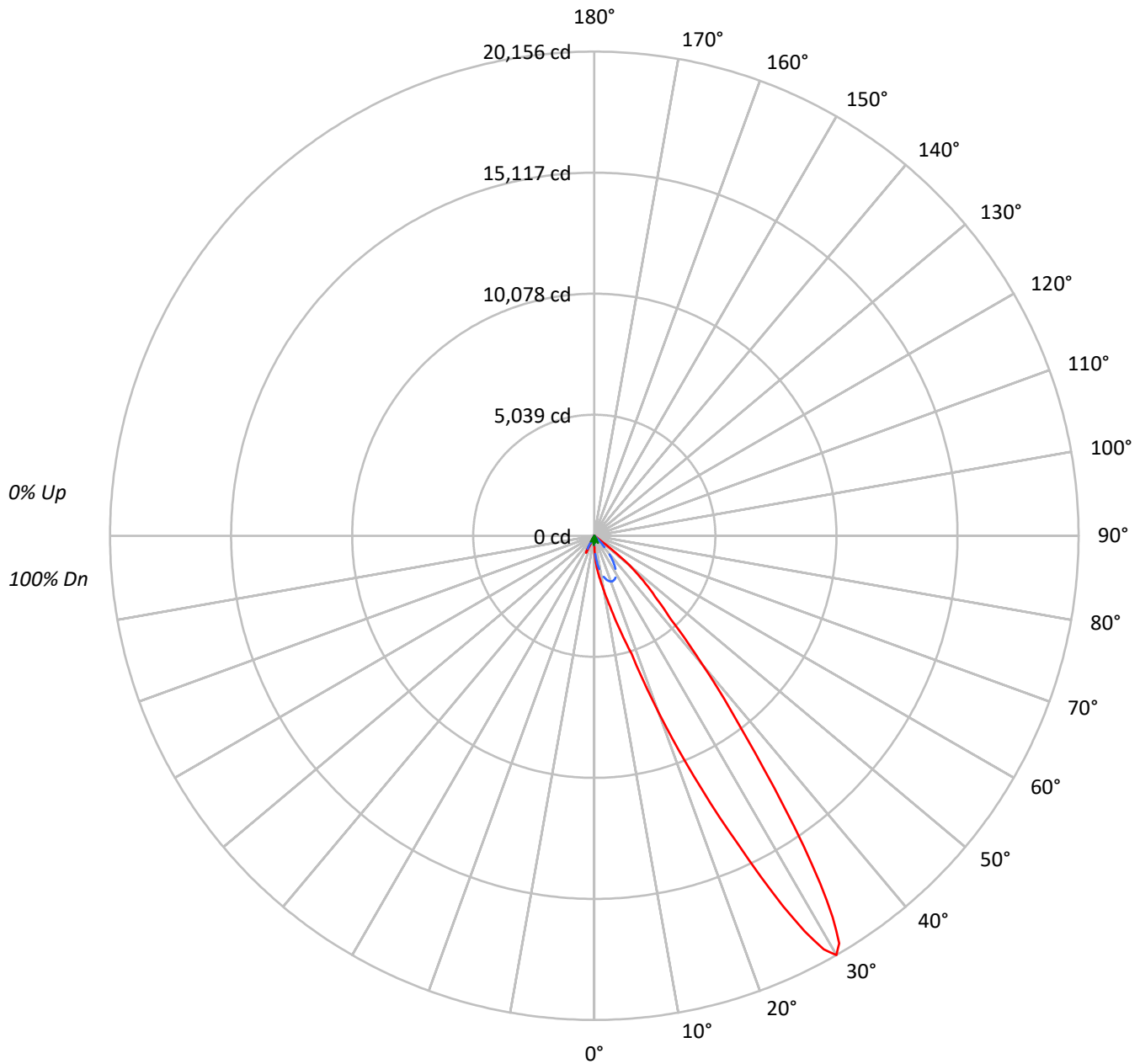
Lumens per Lamp: N/A
Luminaire Lumens: 2789.2 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 2.44 / 0.33 / 1.32
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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	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°	22509	22509	22509
5°	76975	19145	2559
10°	128816	10621	1258
15°	223753	3922	1067
20°	457157	2561	1832
25°	858146	5014	32427
30°	1275905	8742	5248
35°	920795	669	415
40°	500130	265	0
45°	277618	287	0
50°	162451	316	0
55°	5171	248	0
60°	1776	406	0
65°	804	480	0
70°	593	593	0
75°	254	1059	0
80°	0	1578	0
85°	0	3145	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	2.1
10°-20°	298.7	10.7
20°-30°	961.1	34.5
30°-40°	1000.6	35.9
40°-50°	426.3	15.3
50°-60°	35.4	1.3
60°-70°	3.6	0.1
70°-80°	3.1	0.1
80°-90°	2.9	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°	1317.3	47.2
0°-40°	2317.9	83.1
0°-60°	2779.6	99.7
0°-90°	2789.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	411	411	411	411	411	
5°	1399	1020	348	63	46	159
15°	3942	1877	69	24	19	1289
25°	14187	1999	83	250	536	6813
35°	13759	1428	10	9	6	8518
45°	3581	245	4	3	0	2945
55°	54	8	3	3	0	337
65°	6	4	4	3	0	7
75°	1	4	5	4	0	1
85°	0	4	5	4	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
72.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.2	1.2
75°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	67.5°	90°	112.5°
72.5°	1.2	2.6	2.6	2.6	0.0	0.0	0.0	3.7	5.0	3.7	5.0
75°	1.2	1.2	2.6	2.6	0.0	0.0	0.0	3.7	5.0	5.0	5.0
77.5°	1.2	1.2	2.6	2.6	0.0	0.0	0.0	3.7	5.0	5.0	6.2
80°	1.2	1.2	2.6	2.6	0.0	0.0	0.0	3.7	5.0	5.0	6.2
82.5°	1.2	1.2	2.6	2.6	0.0	0.0	0.0	3.7	5.0	5.0	6.2
85°	1.2	1.2	2.6	2.6	0.0	0.0	0.0	3.7	5.0	5.0	6.2
87.5°	1.2	1.2	2.6	2.6	0.0	0.0	0.0	3.7	5.0	5.0	6.2
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):

	135°	157.5°	180°
0°	410.6	410.6	410.6
2.5°	156.9	112.9	103.0
5°	62.7	51.5	46.5
7.5°	38.9	32.7	30.1
10°	31.4	23.8	22.6
12.5°	25.1	21.4	20.1
15°	23.8	20.1	18.8
17.5°	23.8	22.6	21.4
20°	30.1	30.1	31.4
22.5°	51.5	60.3	67.7
25°	249.9	404.4	536.1
26°	523.6	738.3	789.8
27°	649.1	671.7	645.4
28°	499.7	448.2	421.9
29°	267.4	223.5	204.7
30°	106.7	87.9	82.9
31°	51.5	43.9	42.6
32°	28.8	23.8	23.8
33°	17.6	15.1	13.8
34°	12.6	10.0	8.8
35°	8.8	7.6	6.2
36°	7.6	5.0	3.7
37°	6.2	3.7	3.7
38°	5.0	3.7	2.6
39°	3.7	2.6	1.2
40°	3.7	1.2	0.0
42.5°	2.6	1.2	0.0
45°	2.6	0.0	0.0
47.5°	3.7	2.6	1.2
50°	2.6	1.2	0.0
51°	2.6	0.0	0.0
52°	2.6	0.0	0.0
53°	2.6	0.0	0.0
54°	2.6	0.0	0.0
55°	2.6	0.0	0.0
57.5°	2.6	0.0	0.0
60°	2.6	0.0	0.0
61°	2.6	0.0	0.0
62°	2.6	0.0	0.0
63°	2.6	1.2	0.0
64°	2.6	1.2	0.0
65°	2.6	1.2	0.0
66°	2.6	1.2	0.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
72.5°	3.7	1.2	0.0
75°	3.7	1.2	0.0
77.5°	3.7	1.2	0.0
80°	3.7	1.2	0.0
82.5°	3.7	1.2	0.0
85°	3.7	1.2	0.0
87.5°	3.7	1.2	0.0
90°	0.0	0.0	0.0

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— 0°-180° - - 45°-225° - - - - 90°-270°

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67.5°	5.0	3.7	3.7	3.7	3.7	3.7	3.7	2.6	2.6	3.7	3.7
70°	3.7	3.7	3.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6

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67.5°	3.7	3.7	3.7	3.7	1.2	0.0	0.0	3.7	5.0	3.7	5.0
70°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	3.7	5.0	3.7	5.0

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67.5°	3.7	1.2	0.0
70°	3.7	1.2	0.0

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