

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: P26617

Luminaire Tested: **LDA6A20835D010TE LARL15SP 6LFC1 H OSL20**

Test Date: 08/29/15

Test Information

Test Method: LM-41-14
Report Number: P26617
Test Lab: INNOVATION CENTER-P2
Test Date: 08/29/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A20835D010TE LARL15SP 6LFC1 H OSL20
Description: PORTFOLIO 6" FLAT CONE HAZE 23Z TRIM, OVERALL SPREAD LENS, 15 DEG SPOT OPTIC, AT 0 DEG TILT.
Light Source: [1] CITIZEN 3500K LED
CLU034-1208B8-353M1A2
Ballast/Driver: [1] ERP ELECTRONIC DRIVER
ELM030W-0700-42, 700mA

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1657.6 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.45 / 0.45
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

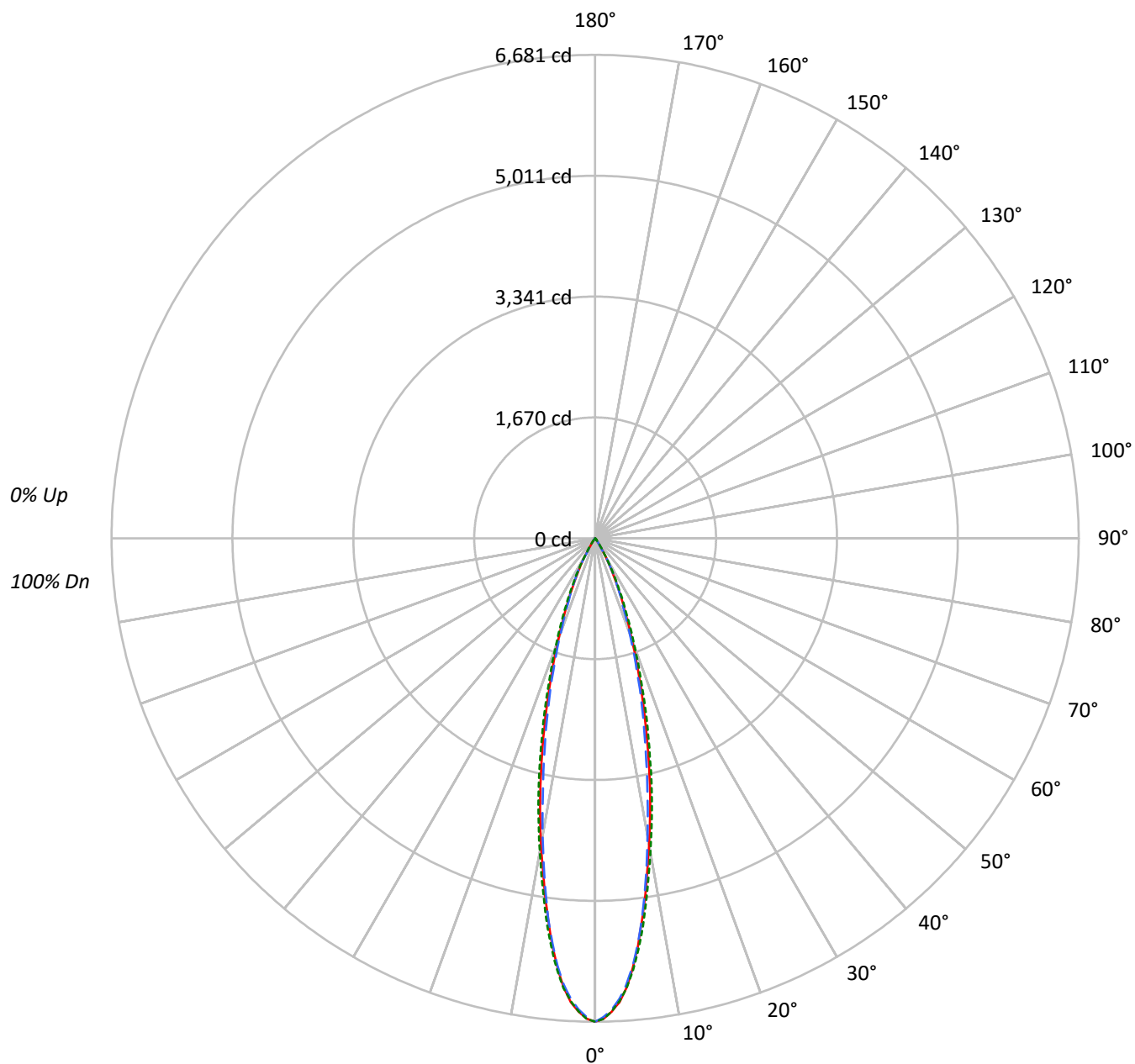
Input Watts (W): 29
Input Voltage (V): 119.96
Input Current (Ain): 0.24377
Voltage Rise (V): NR
Power Factor: 0.9952
Total Harmonic Distortion (THDi): 6.25%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	109	113	111	109	107		107	105	104			103	102	101			96
2	111	107	104	102	109	106	103	101		103	100	98			100	98	96			93
3	107	103	99	96	106	101	98	95		99	96	94			96	94	92			90
4	104	98	94	91	102	97	94	91		95	92	90			93	91	89			86
5	101	95	90	87	99	94	90	87		92	89	86			91	88	85			84
6	97	91	87	84	96	90	86	83		89	86	83			88	85	82			81
7	95	88	84	81	93	87	83	80		86	83	80			85	82	80			78
8	92	85	81	78	91	84	80	78		84	80	77			83	79	77			76
9	89	82	78	75	88	82	78	75		81	77	75			80	77	75			73
10	87	80	76	73	86	79	75	73		79	75	73			78	75	72			71

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	366254	366254	366254
5°	328196	326656	330012
10°	239475	232238	244930
15°	153690	145290	161068
20°	85524	80799	92875
25°	43551	43672	47906
30°	16205	14876	18421
35°	3948	3614	4618
40°	1574	1574	1789
45°	775	698	775
50°	341	341	341
55°	191	191	191
60°	110	110	110
65°	130	130	130
70°	160	160	160
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.9	30.9
10°-20°	734.0	44.3
20°-30°	348.7	21.0
30°-40°	51.9	3.1
40°-50°	8.3	0.5
50°-60°	1.7	0.1
60°-70°	1.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1594.6	96.2
0°-40°	1646.5	99.3
0°-60°	1656.5	99.9
0°-90°	1657.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6681	6681	6681	6681	6681	
5°	5964	5948	5936	5939	5997	512
15°	2708	2638	2560	2682	2838	745
25°	720	724	722	759	792	341
35°	59	56	54	63	69	51
45°	10	10	9	10	10	8
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6681	6681	6681	6681	6681
1°	6640	6632	6618	6619	6644
2°	6548	6538	6518	6518	6543
3°	6420	6405	6378	6370	6408
4°	6228	6207	6186	6178	6233
5°	5964	5948	5936	5939	5997
6°	5659	5675	5633	5659	5721
7°	5313	5342	5305	5336	5409
8°	4980	4983	4931	4992	5067
9°	4620	4606	4553	4628	4727
10°	4302	4255	4172	4287	4400
11°	3976	3917	3804	3952	4087
12°	3661	3588	3461	3626	3774
13°	3335	3260	3139	3298	3468
14°	3025	2936	2844	2984	3136
15°	2708	2638	2560	2682	2838
17.5°	2031	1961	1917	2034	2155
20°	1466	1426	1385	1491	1592
22.5°	1048	1020	981	1079	1147
25°	720	724	722	759	792
27.5°	460	495	515	525	519
30°	256	244	235	275	291
32.5°	107	100	93	125	148
35°	59	56	54	63	69
37.5°	35	34	33	38	41
40°	22	22	22	23	25
42.5°	15	15	14	15	16
45°	10	10	9	10	10
47.5°	6	6	6	6	6
50°	4	4	4	4	4
52.5°	2	2	2	2	2
55°	2	2	2	2	2
57.5°	1	1	1	1	1
60°	1	1	1	1	1
62.5°	1	1	1	1	1
65°	1	1	1	1	1
67.5°	1	1	1	1	1
70°	1	1	1	1	1
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0	0	0	0	0



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— 0°-180° - - 45°-225° - - - 90°-270°







85°	0	0	0	0	0
87.5°	0	0	0	0	0



(END OF REPORT)