

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: P26605

Luminaire Tested: **LDA4A18835D010TE LAR15SP 4LFC1 H DIF-20**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P26605
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A18835D010TE LAR15SP 4LFC1 H DIF-20
Description: PORTFOLIO 4" FLAT CONE HAZE 23Z TRIM, DIFFUSE 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: 1350.3 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.49 / 0.53
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

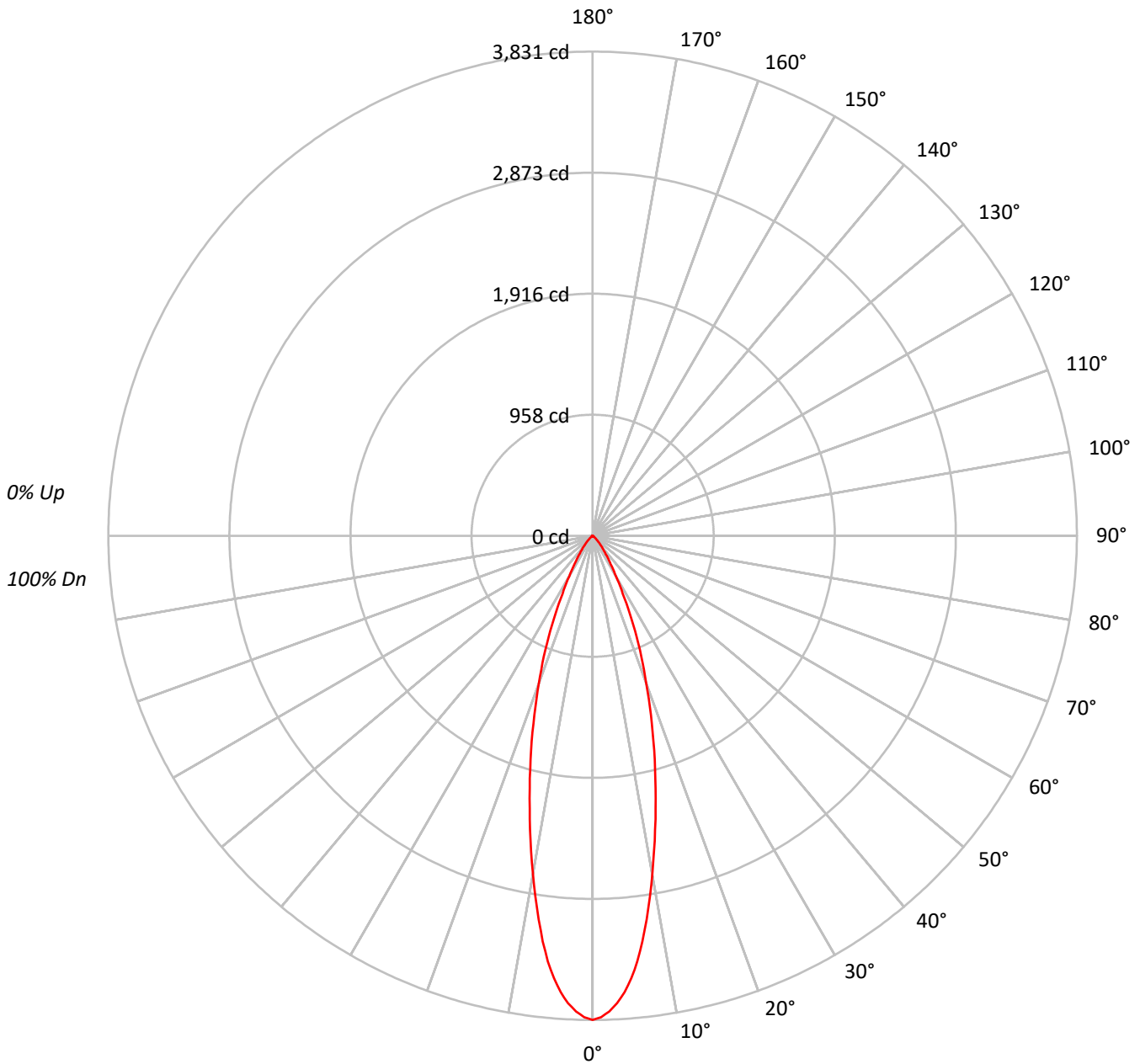
Input Watts (W): 28.6
Input Voltage (V): 119.96
Input Current (A_{in}): 0.24072
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 7.20%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			
3	106	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	472537
5°	435092
10°	340425
15°	243518
20°	162764
25°	98262
30°	52556
35°	29212
40°	16746
45°	8896
50°	3646
55°	1075
60°	493
65°	292
70°	361
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	22.9
10°-20°	526.0	39.0
20°-30°	337.3	25.0
30°-40°	128.5	9.5
40°-50°	41.6	3.1
50°-60°	6.3	0.5
60°-70°	1.4	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°	1172.4	86.8
0°-40°	1300.9	96.3
0°-60°	1348.8	99.9
0°-90°	1350.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1350.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3831	
5°	3514	309
15°	1907	526
25°	722	337
35°	194	129
45°	51	42
55°	5	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

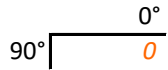
	0°
0°	3831
1°	3810
2°	3766
3°	3704
4°	3621
5°	3514
6°	3386
7°	3234
8°	3065
9°	2892
10°	2718
11°	2546
12°	2378
13°	2215
14°	2059
15°	1907
17.5°	1555
20°	1240
22.5°	977
25°	722
27.5°	516
30°	369
32.5°	266
35°	194
37.5°	142
40°	104
42.5°	74
45°	51
47.5°	33
50°	19
52.5°	10
55°	5
57.5°	3
60°	2
62.5°	2
65°	1
67.5°	1
70°	1
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0



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CANDELA DISTRIBUTION (continued):





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— 0°-180°







85°		0
87.5°		0



(END OF REPORT)