

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: P170550

Luminaire Tested: **LDA4A18830D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A18830D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857.8 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

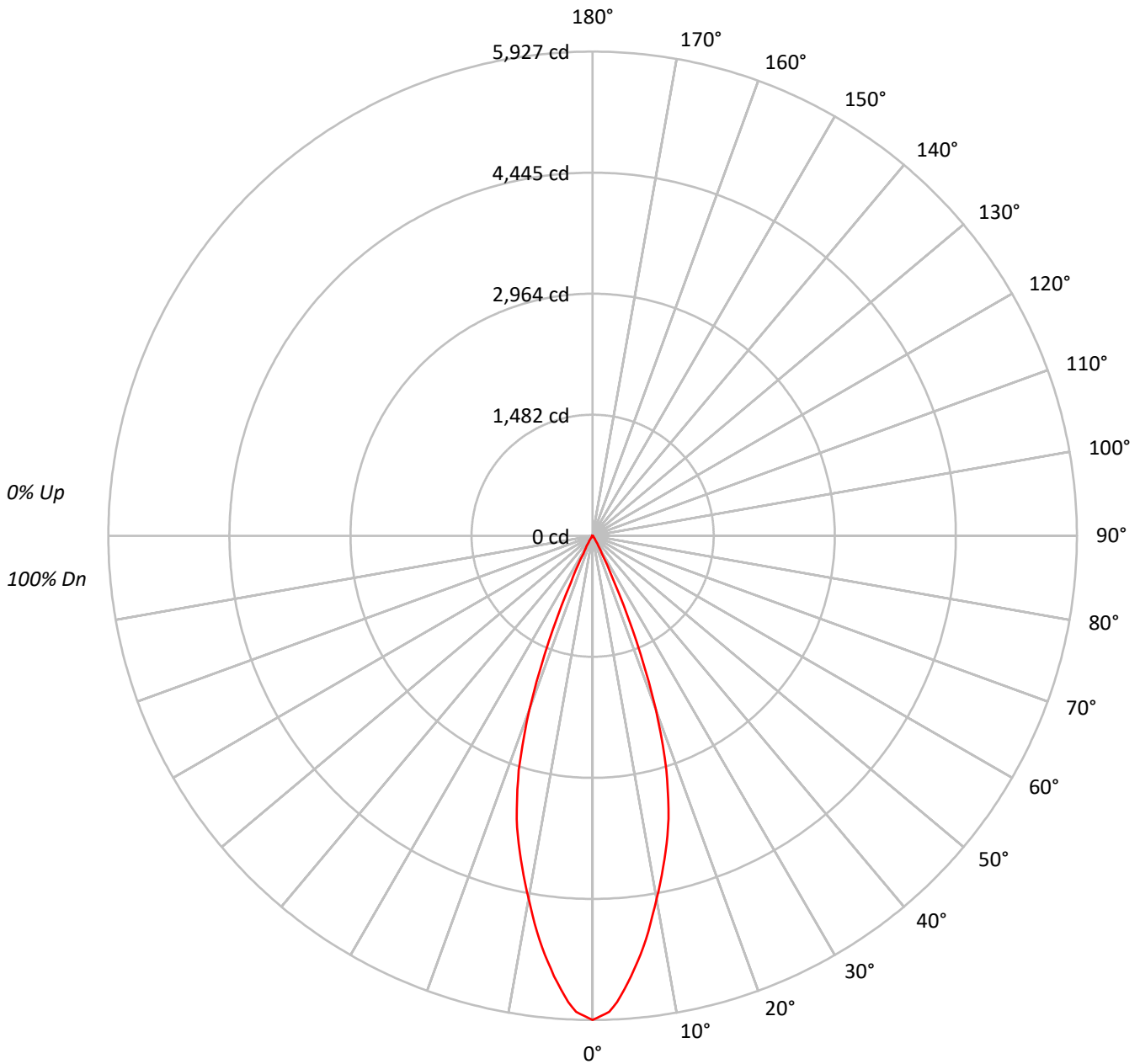
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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			100																
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96			96																
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94			93																	
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91			90																	
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88			86																	
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85			83																	
6	97	91	87	83	96	90	86	83	89	85	83	88	85	82	86	84	82			81																	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79			78																	
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76			75																	
9	89	82	78	75	88	82	77	75	81	77	74	80	77	74	79	76	74			73																	
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72			71																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	731082
5°	670158
10°	565196
15°	458304
20°	296796
25°	85578
30°	18701
35°	5300
40°	1997
45°	837
50°	365
55°	215
60°	247
65°	292
70°	361
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.7	26.3
10°-20°	962.9	51.8
20°-30°	370.9	20.0
30°-40°	29.4	1.6
40°-50°	4.2	0.2
50°-60°	1.0	0.1
60°-70°	1.0	0.1
70°-80°	0.4	0.0
80°-90°	0.5	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°	1821.5	98.0
0°-40°	1850.9	99.6
0°-60°	1856.1	99.9
0°-90°	1858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5927	
5°	5412	488
15°	3589	963
25°	629	371
35°	35	29
45°	5	4
55°	1	1
65°	1	1
75°	0	0
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5927.1
1°	5879.5
2°	5831.0
3°	5716.9
4°	5566.6
5°	5412.5
6°	5243.2
7°	5078.6
8°	4896.9
9°	4700.0
10°	4512.6
11°	4333.8
12°	4147.3
13°	3969.5
14°	3787.8
15°	3589.0
17.5°	3004.9
20°	2261.1
22.5°	1397.3
25°	628.8
27.5°	241.6
30°	131.3
32.5°	67.5
35°	35.2
37.5°	20.9
40°	12.4
42.5°	7.6
45°	4.8
47.5°	2.9
50°	1.9
52.5°	1.0
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	1.0
67.5°	1.0
70°	1.0
72.5°	0.0
75°	0.0
77.5°	1.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		1.0



(END OF REPORT)