

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: P170560

Luminaire Tested: **LDA4A09840D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170560
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: LDA4A09840D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

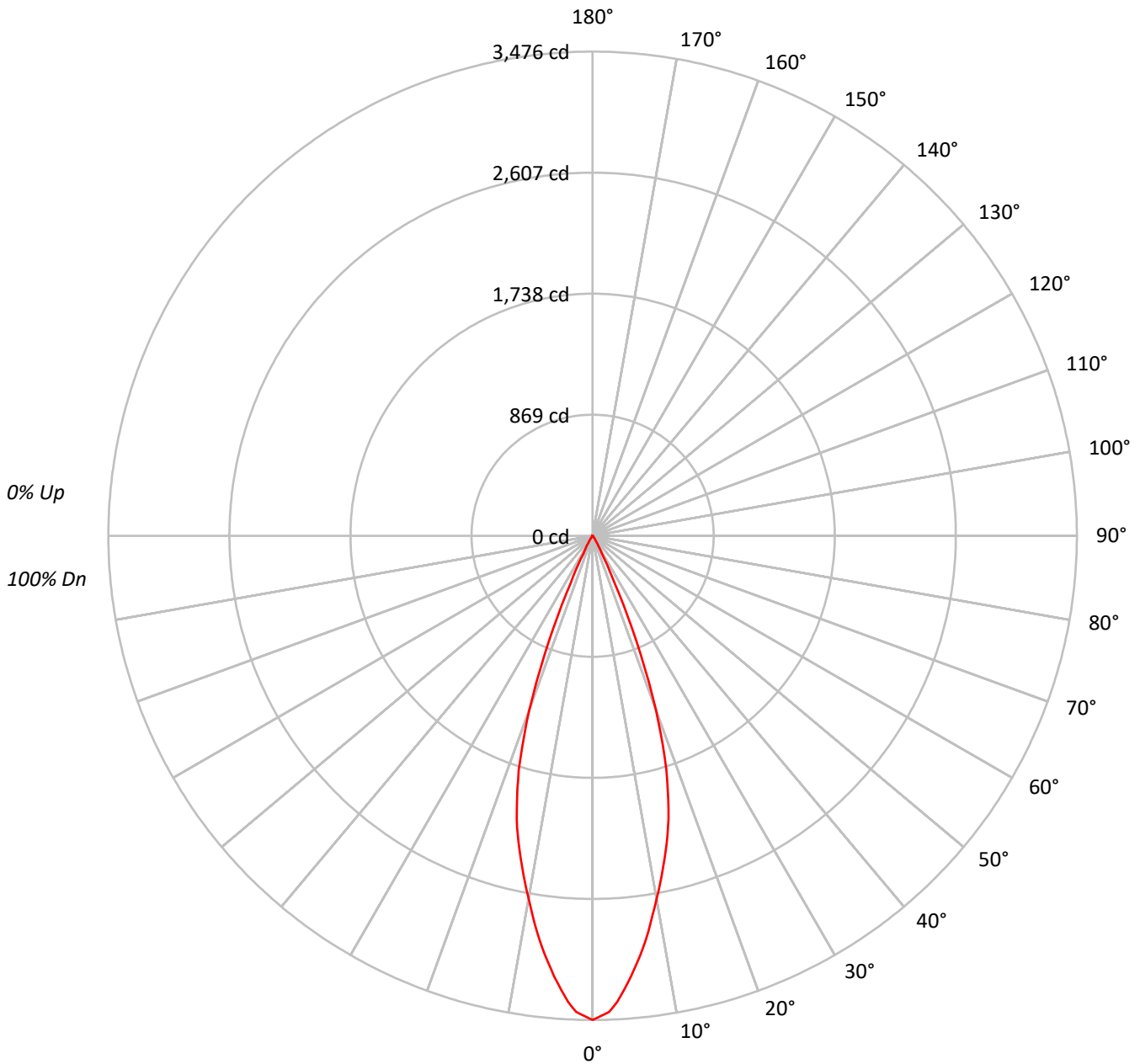
Lumens per Lamp: N/A
Luminaire Lumens: 1089.5 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13.84
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



TEST NUMBER: P170560
CATALOG NUMBER: LDA4A09840D010TE LAR35FL 4LAL1

Luminous Intensity Polar Plot





TEST NUMBER: P170560

CATALOG NUMBER: LDA4A09840D010TE LAR35FL 4LAL1

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	428737
5°	393007
10°	331457
15°	268763
20°	174053
25°	50179
30°	10967
35°	3102
40°	1175
45°	488
50°	211
55°	129
60°	148
65°	175
70°	216
75°	0
80°	0
85°	0



TEST NUMBER: P170560

CATALOG NUMBER: LDA4A09840D010TE LAR35FL 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	26.2
10°-20°	564.7	51.8
20°-30°	217.5	20.0
30°-40°	17.2	1.6
40°-50°	2.5	0.2
50°-60°	0.6	0.1
60°-70°	0.6	0.1
70°-80°	0.2	0.0
80°-90°	0.3	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°	1068.2	98.0
0°-40°	1085.5	99.6
0°-60°	1088.5	99.9
0°-90°	1089.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3476	
5°	3174	286
15°	2105	565
25°	369	218
35°	21	17
45°	3	2
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170560

CATALOG NUMBER: LDA4A09840D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	3475.9
1°	3448.0
2°	3419.5
3°	3352.6
4°	3264.5
5°	3174.1
6°	3074.8
7°	2978.3
8°	2871.7
9°	2756.3
10°	2646.4
11°	2541.5
12°	2432.2
13°	2327.9
14°	2221.3
15°	2104.7
17.5°	1762.2
20°	1326.0
22.5°	819.5
25°	368.7
27.5°	141.7
30°	77.0
32.5°	39.6
35°	20.6
37.5°	12.3
40°	7.3
42.5°	4.5
45°	2.8
47.5°	1.7
50°	1.1
52.5°	0.6
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.6
72.5°	0.0
75°	0.0
77.5°	0.6
80°	0.0
82.5°	0.0



TEST NUMBER: P170560

CATALOG NUMBER: LDA4A09840D010TE LAR35FL 4LAL1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.6



(END OF REPORT)