

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: P170460

Luminaire Tested: **LDA4A18940D010TE LAR35FL 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25630)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A18940D010TE LAR35FL 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

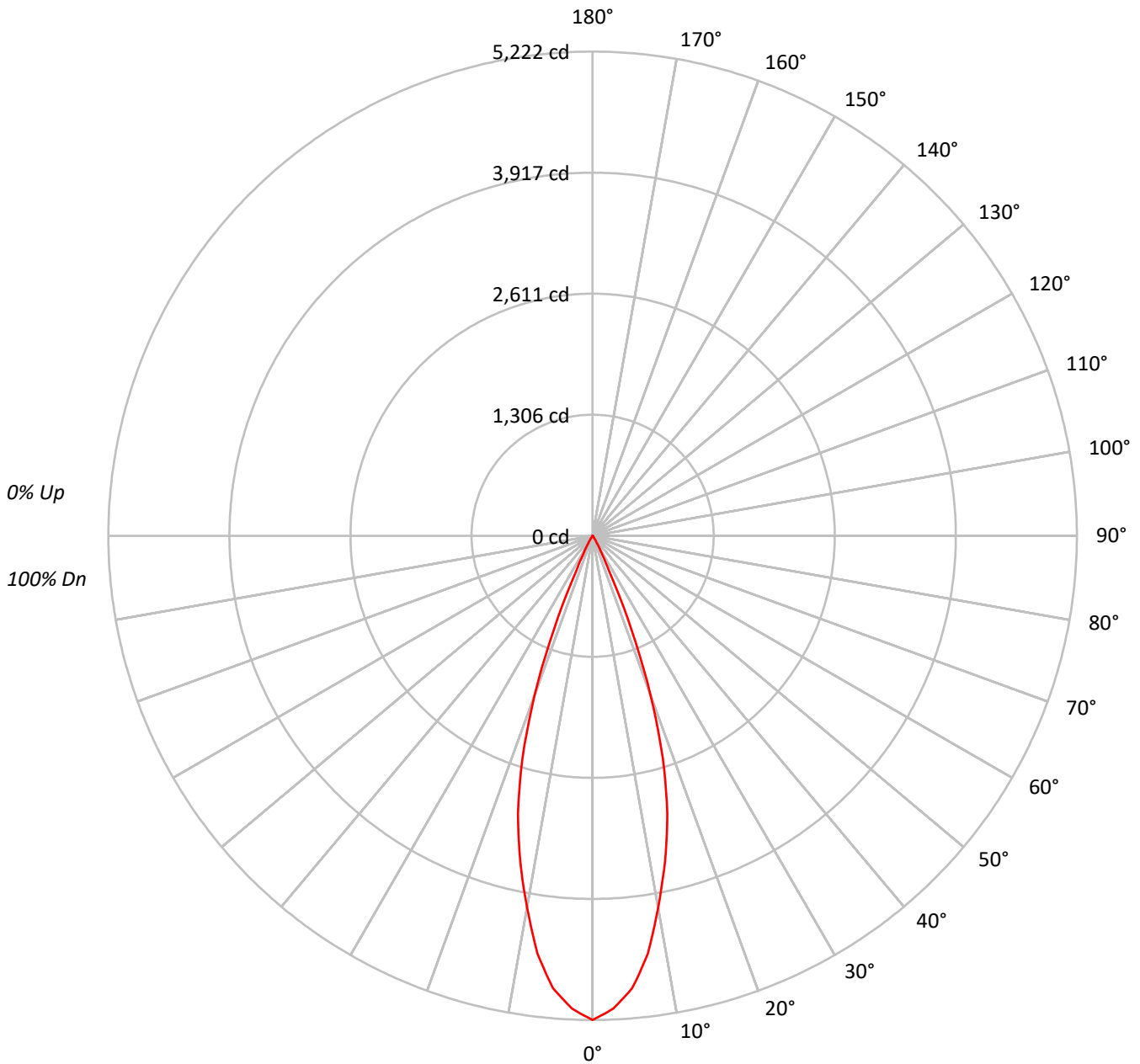
Lumens per Lamp: N/A
Luminaire Lumens: 1579.9 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P170460
CATALOG NUMBER: LDA4A18940D010TE LAR35FL 4LA1

Luminous Intensity Polar Plot





TEST NUMBER: P170460

CATALOG NUMBER: LDA4A18940D010TE LAR35FL 4LA1

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97
2	111	108	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	93	89	87	91	88	86	90	87	85	84
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76
9	90	83	79	76	89	82	79	76	82	78	76	81	78	75	80	77	75	74
10	87	80	76	74	86	80	76	73	79	76	73	79	75	73	78	75	73	72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	644173
5°	606529
10°	509486
15°	397290
20°	239828
25°	55582
30°	14542
35°	3448
40°	1127
45°	314
50°	173
55°	194
60°	222
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170460

CATALOG NUMBER: LDA4A18940D010TE LAR35FL 4LA1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	27.9
10°-20°	831.0	52.6
20°-30°	284.4	18.0
30°-40°	20.3	1.3
40°-50°	1.9	0.1
50°-60°	0.8	0.1
60°-70°	0.3	0.0
70°-80°	0.0	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°	1556.6	98.5
0°-40°	1576.8	99.8
0°-60°	1579.6	100.0
0°-90°	1579.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5222	
5°	4899	441
15°	3111	831
25°	408	284
35°	23	20
45°	2	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170460

CATALOG NUMBER: LDA4A18940D010TE LAR35FL 4LA1

CANDELA DISTRIBUTION (FULL):

	0°
0°	5222.5
2.5°	5105.5
5°	4898.6
7.5°	4548.4
10°	4067.8
12.5°	3601.4
15°	3111.2
17.5°	2516.2
20°	1827.1
22.5°	1091.3
25°	408.4
27.5°	198.9
30°	102.1
32.5°	45.8
35°	22.9
37.5°	12.3
40°	7.0
42.5°	3.5
45°	1.8
47.5°	0.9
50°	0.9
52.5°	0.9
55°	0.9
57.5°	0.9
60°	0.9
62.5°	0.9
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)