

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: P170414

Luminaire Tested: **LDA4A28830D010TE LAR15SP 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25628)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A28830D010TE LAR15SP 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

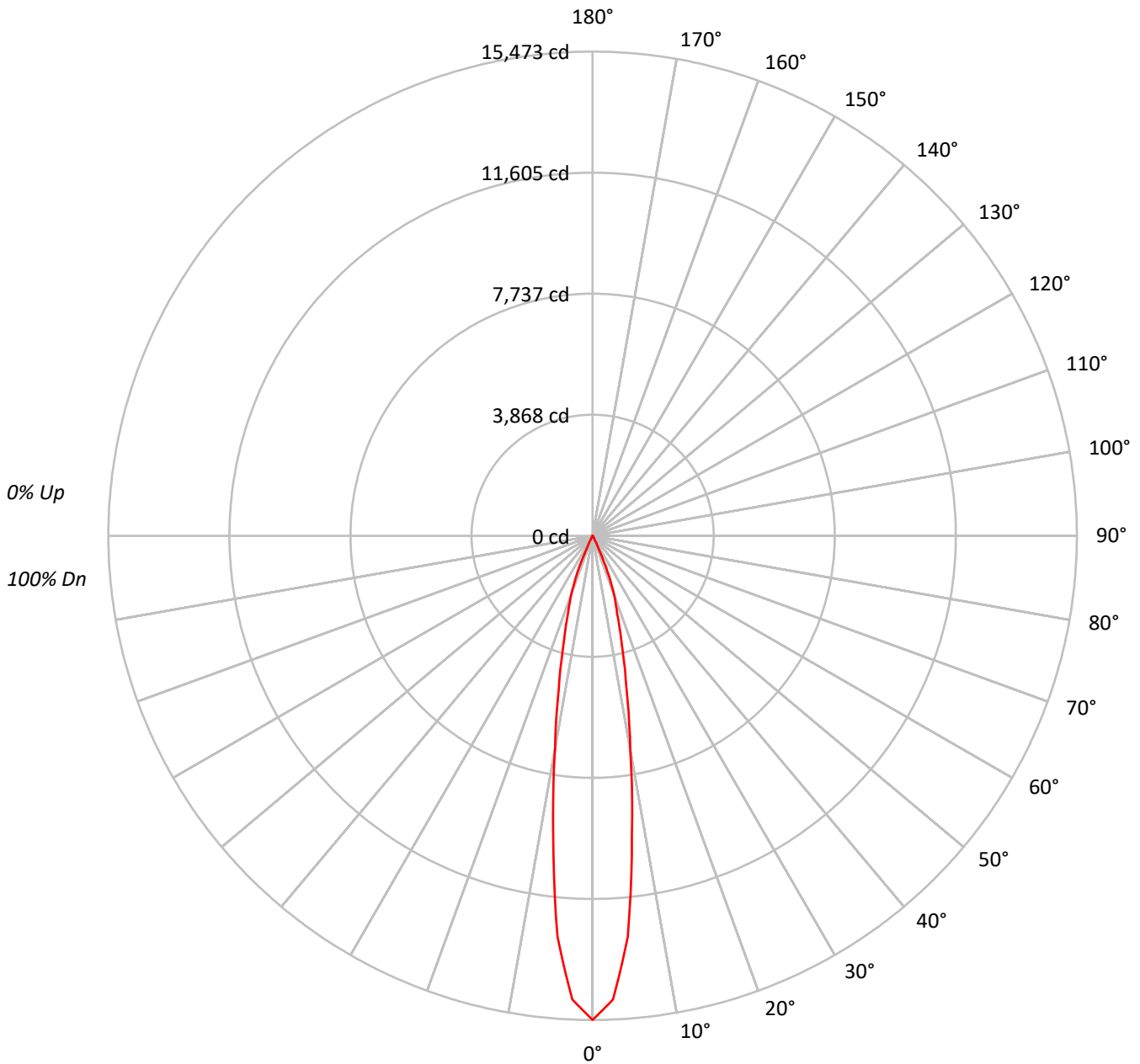
Lumens per Lamp: N/A
Luminaire Lumens: 2377.1 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.35
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 44.49
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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97			97																
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95			95																
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92			92																
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90			90																
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88			88																
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86			86																
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84			84																
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82			82																
9	94	88	84	82	93	87	84	82	87	84	81	86	83	81	85	83	81	80			80																
10	92	86	82	80	91	85	82	80	85	82	80	84	81	79	84	81	79	78			78																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1908564
5°	1592234
10°	865667
15°	459836
20°	261946
25°	51281
30°	10611
35°	3132
40°	1192
45°	523
50°	288
55°	323
60°	370
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.5	42.9
10°-20°	1038.6	43.7
20°-30°	298.0	12.5
30°-40°	16.9	0.7
40°-50°	2.5	0.1
50°-60°	1.3	0.1
60°-70°	0.2	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°	2356.1	99.1
0°-40°	2373.0	99.8
0°-60°	2376.9	100.0
0°-90°	2377.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15473	
5°	12860	###
15°	3601	1039
25°	377	298
35°	21	17
45°	3	3
55°	2	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15473.3
2.5°	14832.9
5°	12859.6
7.5°	9633.9
10°	6911.6
12.5°	4984.5
15°	3601.0
17.5°	2606.2
20°	1995.6
22.5°	1258.4
25°	376.8
27.5°	144.5
30°	74.5
32.5°	38.7
35°	20.8
37.5°	11.9
40°	7.4
42.5°	4.5
45°	3.0
47.5°	1.5
50°	1.5
52.5°	1.5
55°	1.5
57.5°	1.5
60°	1.5
62.5°	0.0
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



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— 0°-180°







(END OF REPORT)