

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: P1219522

Luminaire Tested: **LDSQA4A15950D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15950D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

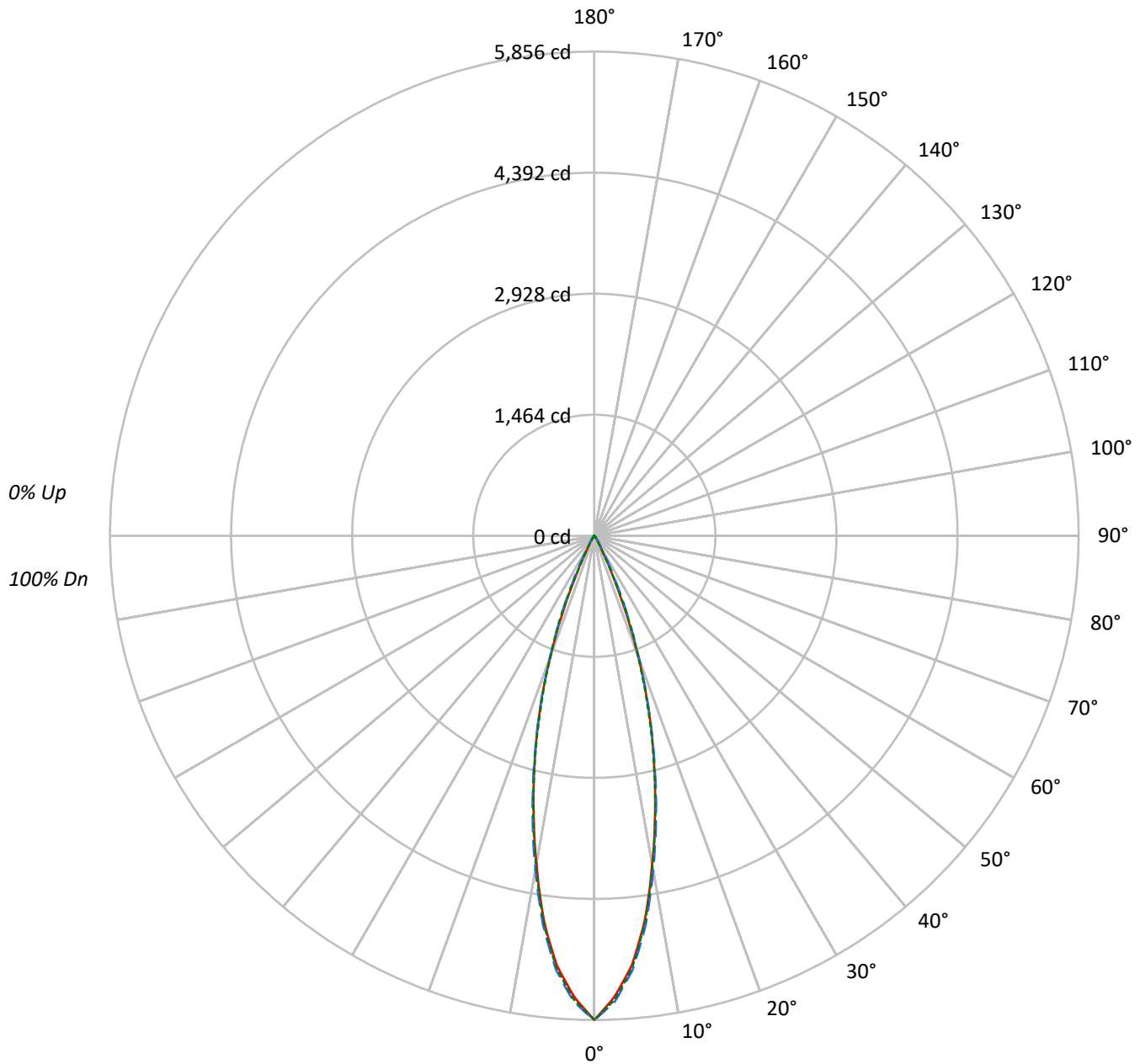
Lumens per Lamp: N/A
Luminaire Lumens: 1561.9 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): 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



Cooper Lighting Solutions Photometric Lab

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	96		
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93		
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90		
4	104	99	95	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87		
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84		
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81		
7	95	88	84	81	94	88	84	81	87	83	80	85	82	80	85	82	80	79		
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76		
9	89	83	78	76	89	82	78	76	81	78	75	81	77	75	80	77	75	74		
10	87	80	76	73	86	80	76	73	79	76	73	78	75	73	78	75	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	567293	567293	567293
5°	506649	513019	509829
10°	396588	403681	398742
15°	278493	280539	276969
20°	159835	163144	159701
25°	50602	66571	52237
30°	13435	16701	12965
35°	4565	8267	4648
40°	2023	3313	2023
45°	1096	1493	904
50°	663	784	437
55°	372	372	253
60°	291	291	136
65°	160	160	160
70°	198	198	198
75°	0	262	262
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.5	29.7
10°-20°	757.3	48.5
20°-30°	293.3	18.8
30°-40°	36.0	2.3
40°-50°	7.6	0.5
50°-60°	2.0	0.1
60°-70°	0.8	0.0
70°-80°	0.4	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°	1515.1	97.0
0°-40°	1551.1	99.3
0°-60°	1560.7	99.9
0°-90°	1561.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5856	5856	5856	5856	5856	
5°	5210	5286	5276	5244	5243	460
15°	2777	2814	2797	2777	2762	753
25°	473	593	623	612	489	265
35°	39	47	70	46	39	29
45°	8	9	11	8	7	7
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	1	1	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5855.9	5855.9	5855.9	5855.9	5855.9
2.5°	5582.1	5660.0	5641.8	5605.5	5615.0
5°	5210.0	5285.7	5275.5	5243.5	5242.7
7.5°	4684.9	4759.1	4750.5	4711.8	4708.2
10°	4031.6	4099.4	4103.7	4047.7	4053.5
12.5°	3393.6	3449.1	3451.2	3412.7	3404.5
15°	2776.8	2814.0	2797.2	2776.8	2761.6
17.5°	2168.7	2176.8	2173.1	2143.2	2132.3
20°	1550.4	1585.4	1582.5	1557.1	1549.1
22.5°	965.6	1029.0	1058.1	1034.8	1047.2
25°	473.4	592.8	622.8	611.8	488.7
27.5°	192.2	251.3	313.1	247.6	185.7
30°	120.1	131.0	149.3	126.0	115.9
32.5°	63.3	79.4	101.2	77.2	63.3
35°	38.6	46.6	69.9	46.0	39.3
37.5°	24.8	29.1	40.8	29.1	25.6
40°	16.0	18.9	26.2	18.9	16.0
42.5°	10.9	12.4	16.7	12.4	10.2
45°	8.0	8.7	10.9	8.0	6.6
47.5°	5.8	6.6	7.3	5.2	4.4
50°	4.4	4.4	5.2	3.6	2.9
52.5°	2.9	3.6	3.6	2.2	2.2
55°	2.2	2.2	2.2	1.5	1.5
57.5°	2.2	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.0
75°	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

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Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

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