

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: P1219550

Luminaire Tested: **LDSQA4A25950D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219550
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: LDSQA4A25950D010TE 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

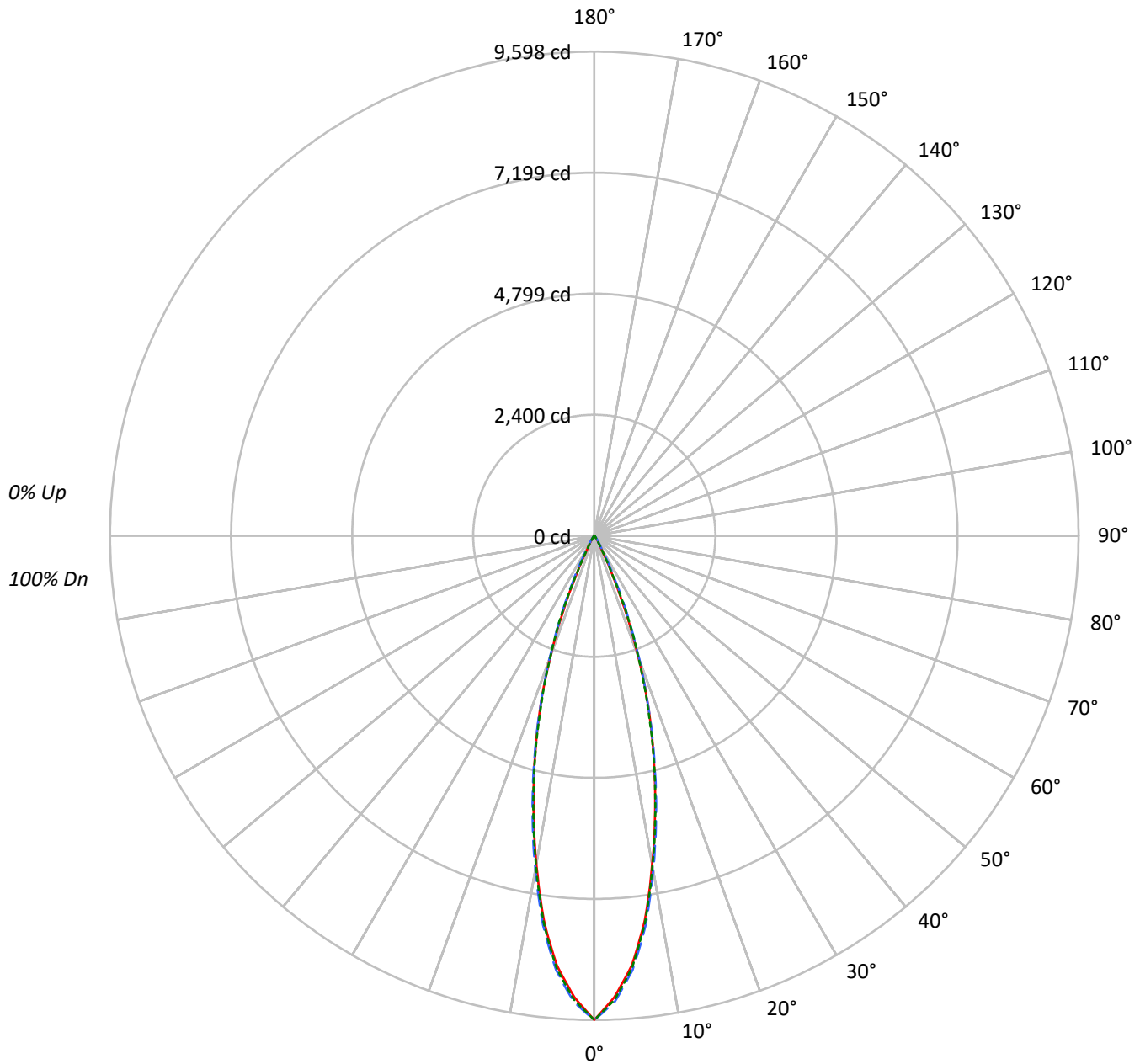
Lumens per Lamp: N/A
Luminaire Lumens: 2559.9 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	929839	929839	929839
5°	830428	840882	835650
10°	650058	661675	653570
15°	456483	459833	453965
20°	261989	267412	261752
25°	82925	109103	85619
30°	22026	27361	21231
35°	7474	13553	7628
40°	3326	5451	3326
45°	1808	2452	1480
50°	1085	1251	723
55°	591	591	405
60°	465	465	213
65°	252	252	252
70°	312	312	312
75°	0	412	412
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.3	29.7
10°-20°	1241.3	48.5
20°-30°	480.8	18.8
30°-40°	58.9	2.3
40°-50°	12.4	0.5
50°-60°	3.3	0.1
60°-70°	1.2	0.0
70°-80°	0.6	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°	2483.4	97.0
0°-40°	2542.4	99.3
0°-60°	2558.1	99.9
0°-90°	2559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9598	9598	9598	9598	9598	
5°	8540	8664	8647	8595	8593	755
15°	4552	4612	4585	4552	4526	1234
25°	776	972	1021	1003	801	435
35°	63	76	115	75	64	48
45°	13	14	18	13	11	11
55°	4	4	4	2	2	4
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°	9598.3	9598.3	9598.3	9598.3	9598.3
2.5°	9149.5	9277.2	9247.4	9187.7	9203.3
5°	8539.5	8663.7	8647.0	8594.6	8593.2
7.5°	7678.9	7800.6	7786.3	7723.1	7717.1
10°	6608.3	6719.1	6726.4	6634.4	6644.0
12.5°	5562.5	5653.2	5656.8	5593.5	5580.5
15°	4551.5	4612.3	4584.9	4551.5	4526.4
17.5°	3554.7	3567.8	3561.9	3513.0	3495.0
20°	2541.3	2598.6	2593.9	2552.2	2539.0
22.5°	1582.8	1686.7	1734.4	1696.2	1716.4
25°	775.8	971.7	1020.7	1002.8	801.0
27.5°	315.0	411.8	513.3	405.8	304.4
30°	196.9	214.9	244.6	206.5	189.8
32.5°	103.8	130.1	166.0	126.5	103.8
35°	63.2	76.3	114.6	75.2	64.5
37.5°	40.6	47.7	66.9	47.7	41.7
40°	26.3	31.1	43.1	31.1	26.3
42.5°	17.9	20.3	27.6	20.3	16.7
45°	13.2	14.4	17.9	13.2	10.8
47.5°	9.6	10.8	12.0	8.3	7.2
50°	7.2	7.2	8.3	5.9	4.8
52.5°	4.8	5.9	5.9	3.5	3.5
55°	3.5	3.5	3.5	2.4	2.4
57.5°	3.5	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	0.0
75°	0.0	1.1	1.1	1.1	1.1
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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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)