

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: P1212295

Luminaire Tested: **LDSQA4A30927D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212295
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: LDSQA4A30927D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

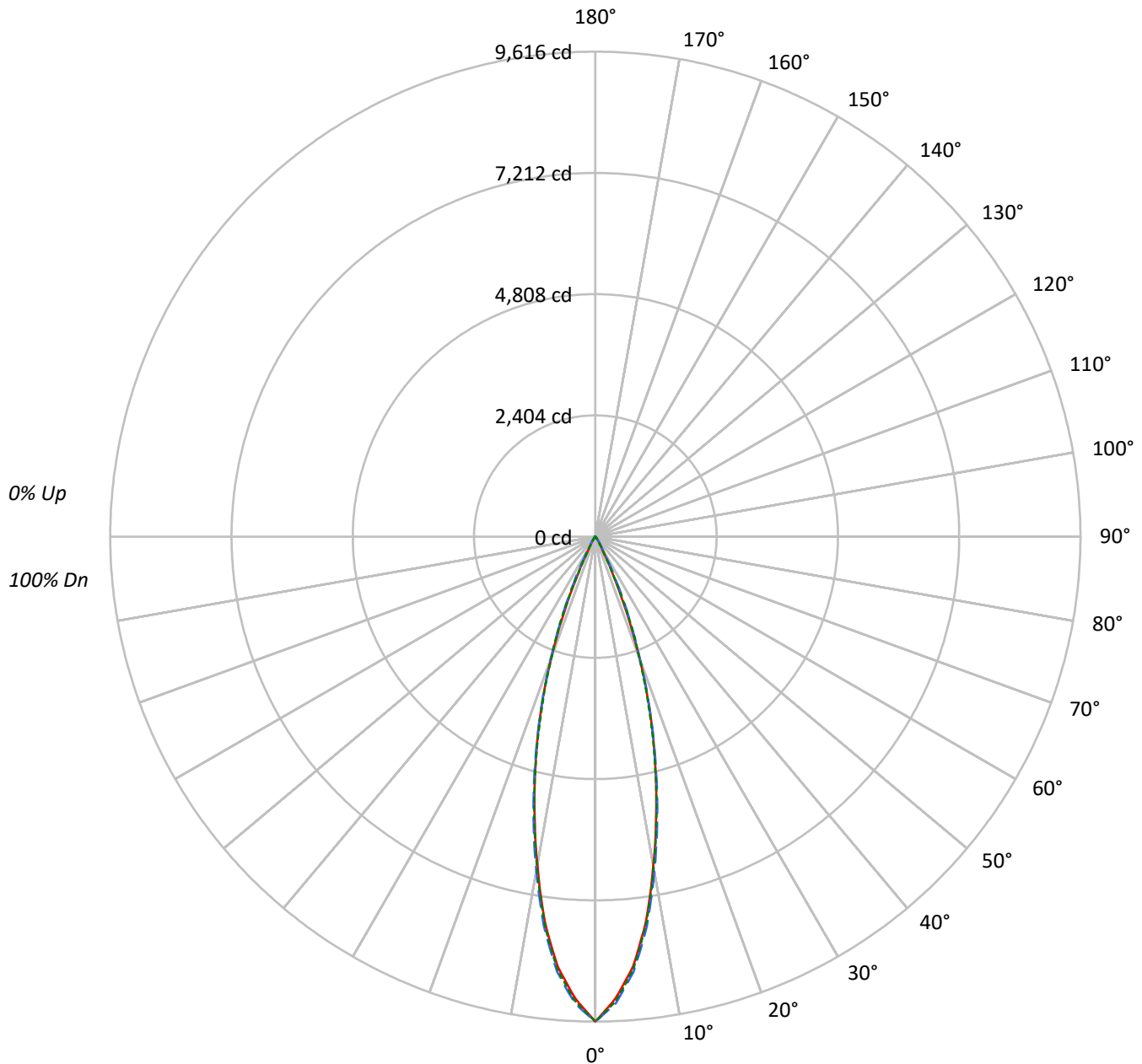
Lumens per Lamp: N/A
Luminaire Lumens: 2564.7 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



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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	96	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°	931506	931506	931506
5°	831916	842379	837147
10°	651209	662856	654730
15°	457285	460655	454778
20°	262464	267876	262216
25°	83086	109285	85769
30°	22070	27417	21276
35°	7498	13577	7628
40°	3326	5451	3326
45°	1795	2466	1466
50°	1070	1266	708
55°	608	608	405
60°	465	465	233
65°	275	275	275
70°	340	340	340
75°	0	449	449
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.7	29.7
10°-20°	1243.5	48.5
20°-30°	481.7	18.8
30°-40°	59.0	2.3
40°-50°	12.4	0.5
50°-60°	3.3	0.1
60°-70°	1.3	0.0
70°-80°	0.7	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°	2487.9	97.0
0°-40°	2546.9	99.3
0°-60°	2562.7	99.9
0°-90°	2564.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2564.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9616	9616	9616	9616	9616	
5°	8555	8679	8662	8610	8609	756
15°	4560	4621	4593	4560	4534	1237
25°	777	973	1022	1004	802	436
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°	9615.5	9615.5	9615.5	9615.5	9615.5
2.5°	9165.9	9293.8	9263.9	9204.1	9219.7
5°	8554.8	8679.2	8662.4	8609.8	8608.6
7.5°	7692.6	7814.6	7800.3	7736.9	7730.9
10°	6620.0	6731.2	6738.4	6646.3	6655.8
12.5°	5572.5	5663.3	5667.0	5603.6	5590.3
15°	4559.5	4620.6	4593.1	4559.5	4534.5
17.5°	3561.1	3574.3	3568.3	3519.3	3501.3
20°	2545.9	2603.3	2598.4	2556.6	2543.5
22.5°	1585.6	1689.7	1737.5	1699.3	1719.5
25°	777.3	973.4	1022.4	1004.5	802.4
27.5°	315.7	412.6	514.2	406.6	304.9
30°	197.3	215.3	245.1	206.9	190.2
32.5°	104.1	130.3	166.2	126.8	104.1
35°	63.4	76.5	114.8	75.4	64.5
37.5°	40.7	47.8	67.0	47.8	41.8
40°	26.3	31.1	43.1	31.1	26.3
42.5°	18.0	20.3	27.5	20.3	16.7
45°	13.1	14.4	18.0	13.1	10.7
47.5°	9.6	10.7	12.0	8.4	7.1
50°	7.1	7.1	8.4	6.0	4.7
52.5°	4.7	6.0	6.0	3.6	3.6
55°	3.6	3.6	3.6	2.4	2.4
57.5°	3.6	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	0.0
75°	0.0	1.2	1.2	1.2	1.2
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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