

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: P1219494

Luminaire Tested: **LDSQA4A15935D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219494
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: LDSQA4A15935D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

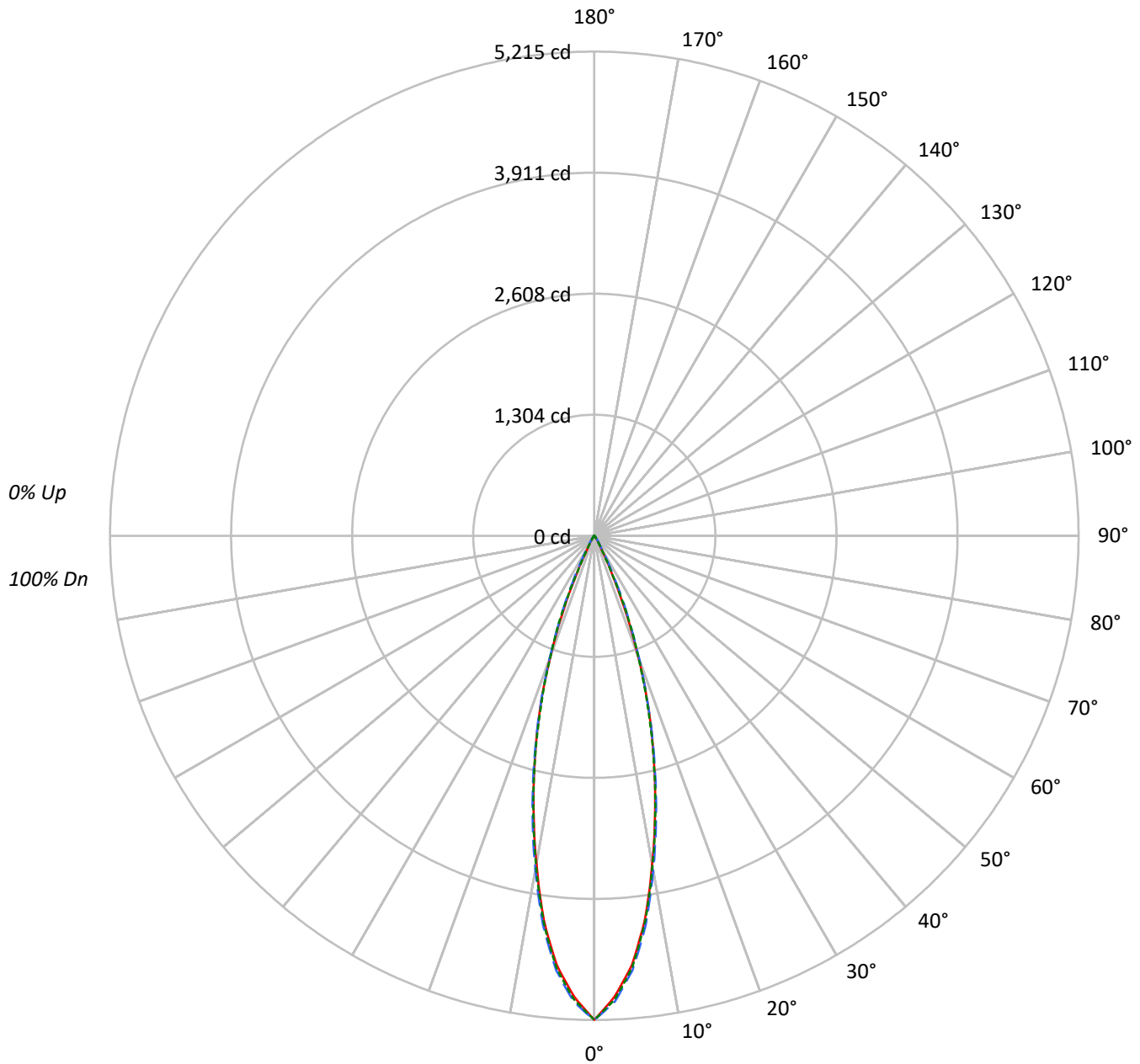
Lumens per Lamp: N/A
Luminaire Lumens: 1391.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

1121 Highway 74 South

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	505196	505196	505196
5°	451180	456859	454020
10°	353177	359503	355096
15°	248014	249829	246650
20°	142350	145289	142216
25°	45054	59271	46519
30°	11969	14878	11544
35°	4068	7368	4139
40°	1808	2959	1808
45°	973	1329	795
50°	588	693	392
55°	338	338	220
60°	252	252	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°	413.6	29.7
10°-20°	674.4	48.5
20°-30°	261.2	18.8
30°-40°	32.0	2.3
40°-50°	6.7	0.5
50°-60°	1.8	0.1
60°-70°	0.7	0.1
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°	1349.3	97.0
0°-40°	1381.3	99.3
0°-60°	1389.9	99.9
0°-90°	1391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5215	5215	5215	5215	5215	
5°	4640	4707	4698	4670	4669	410
15°	2473	2506	2491	2473	2459	671
25°	422	528	554	545	435	236
35°	34	42	62	41	35	26
45°	7	8	10	7	6	6
55°	2	2	2	1	1	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°	5214.9	5214.9	5214.9	5214.9	5214.9
2.5°	4971.1	5040.5	5024.2	4991.9	5000.3
5°	4639.6	4707.2	4698.0	4669.5	4668.8
7.5°	4172.1	4238.2	4230.5	4196.1	4192.8
10°	3590.3	3650.6	3654.6	3604.6	3609.8
12.5°	3022.2	3071.5	3073.5	3039.1	3032.0
15°	2472.9	2506.0	2491.0	2472.9	2459.3
17.5°	1931.4	1938.5	1935.3	1908.6	1898.9
20°	1380.8	1411.8	1409.3	1386.6	1379.5
22.5°	860.0	916.3	942.4	921.6	932.6
25°	421.5	527.9	554.5	544.8	435.2
27.5°	171.2	223.7	278.9	220.5	165.3
30°	107.0	116.7	133.0	112.2	103.2
32.5°	56.4	70.7	90.2	68.7	56.4
35°	34.4	41.5	62.3	40.9	35.0
37.5°	22.1	25.9	36.3	25.9	22.7
40°	14.3	16.8	23.4	16.8	14.3
42.5°	9.7	11.0	14.9	11.0	9.1
45°	7.1	7.8	9.7	7.1	5.8
47.5°	5.1	5.8	6.5	4.6	3.9
50°	3.9	3.9	4.6	3.3	2.6
52.5°	2.6	3.3	3.3	2.0	2.0
55°	2.0	2.0	2.0	1.3	1.3
57.5°	2.0	1.3	1.3	1.3	1.3
60°	1.3	1.3	1.3	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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— 0°-180° - - 45°-225° - - - 90°-270°

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