

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: P1219520

Luminaire Tested: **LDSQA4A15950D010TE LAR25NF 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15950D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

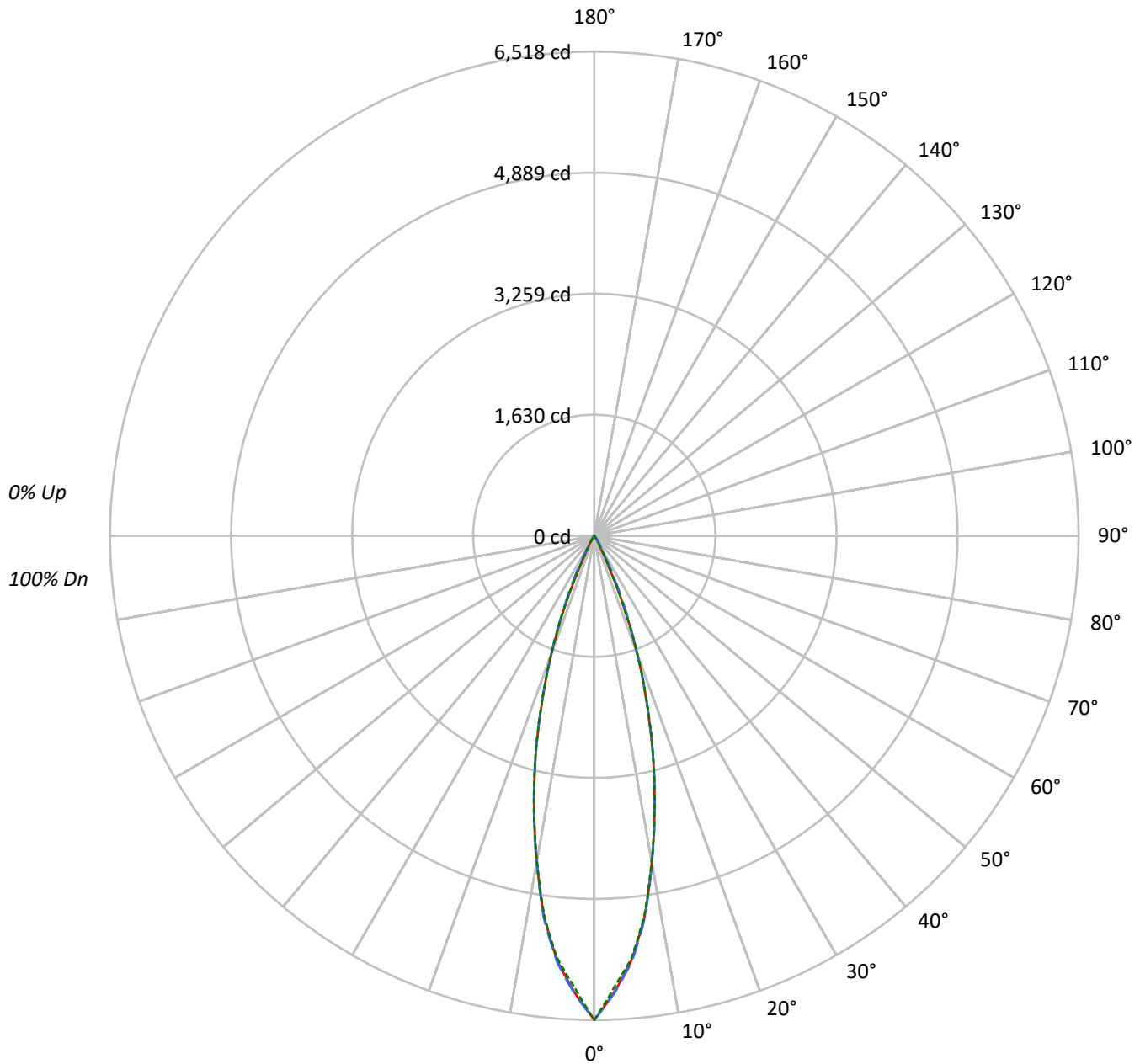
Lumens per Lamp: N/A
Luminaire Lumens: 1690.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

Peachtree City, GA 30269



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	113	111	109	113	111	109	107	107	105	104		103	102	101		97
2	111	108	105	102	109	106	103	101	103	101	99		100	98	97		93
3	108	103	99	96	106	102	98	96	99	96	94		97	95	93		90
4	104	99	95	92	103	98	94	91	96	93	90		94	91	89		87
5	101	95	91	88	100	94	90	88	93	89	87		91	88	86		84
6	98	92	88	84	97	91	87	84	90	86	84		88	85	83		82
7	95	89	84	81	94	88	84	81	87	83	81		86	83	80		79
8	92	86	82	79	91	85	81	79	84	81	78		84	80	78		77
9	90	83	79	76	89	83	79	76	82	78	76		81	78	76		74
10	87	81	77	74	87	80	76	74	80	76	74		79	76	73		72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	631424	631424	631424
5°	558160	560056	555311
10°	438690	439182	437323
15°	305372	306244	306475
20°	173237	174371	174969
25°	46700	70665	52526
30°	11567	15795	11891
35°	3441	7238	3702
40°	1378	2390	1378
45°	712	1000	603
50°	437	437	226
55°	372	253	118
60°	291	136	136
65°	160	160	160
70°	198	198	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.3	30.3
10°-20°	831.5	49.2
20°-30°	309.1	18.3
30°-40°	30.7	1.8
40°-50°	5.1	0.3
50°-60°	1.4	0.1
60°-70°	0.7	0.0
70°-80°	0.1	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°	1652.0	97.7
0°-40°	1682.6	99.6
0°-60°	1689.2	99.9
0°-90°	1690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6518	6518	6518	6518	6518	
5°	5740	5797	5759	5827	5710	508
15°	3045	3079	3054	3104	3056	824
25°	437	642	661	617	491	273
35°	29	36	61	38	31	23
45°	5	6	7	6	4	4
55°	2	2	2	2	1	2
65°	1	1	1	1	1	1
75°	0	1	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6517.9	6517.9	6517.9	6517.9	6517.9
2.5°	6151.0	6183.6	6163.2	6218.0	6086.2
5°	5739.7	5797.1	5759.2	5826.9	5710.4
7.5°	5174.5	5234.3	5195.6	5261.2	5157.0
10°	4459.6	4504.0	4464.6	4528.0	4445.7
12.5°	3744.5	3789.0	3759.9	3818.2	3752.6
15°	3044.8	3079.1	3053.5	3103.9	3055.8
17.5°	2334.3	2367.0	2343.7	2384.5	2348.1
20°	1680.4	1708.8	1691.4	1725.6	1697.2
22.5°	1043.4	1119.0	1131.4	1134.4	1052.1
25°	436.9	641.5	661.1	617.4	491.4
27.5°	179.9	235.9	314.5	248.2	189.4
30°	103.4	120.1	141.2	123.8	106.3
32.5°	51.7	67.0	92.5	70.6	54.6
35°	29.1	36.4	61.2	37.9	31.3
37.5°	17.5	21.1	30.6	21.8	18.2
40°	10.9	13.1	18.9	13.8	10.9
42.5°	7.3	8.7	11.6	8.7	7.3
45°	5.2	5.8	7.3	5.8	4.4
47.5°	3.6	3.6	4.4	3.6	2.9
50°	2.9	2.9	2.9	2.2	1.5
52.5°	2.2	2.2	2.2	1.5	1.5
55°	2.2	1.5	1.5	1.5	0.7
57.5°	1.5	1.5	1.5	0.7	0.7
60°	1.5	1.5	0.7	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	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.7	0.0	0.0	0.0
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

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— 0°-180° - - 45°-225° - - - 90°-270°

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