

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: P1219504

Luminaire Tested: **LDSQA4A15940D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15940D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

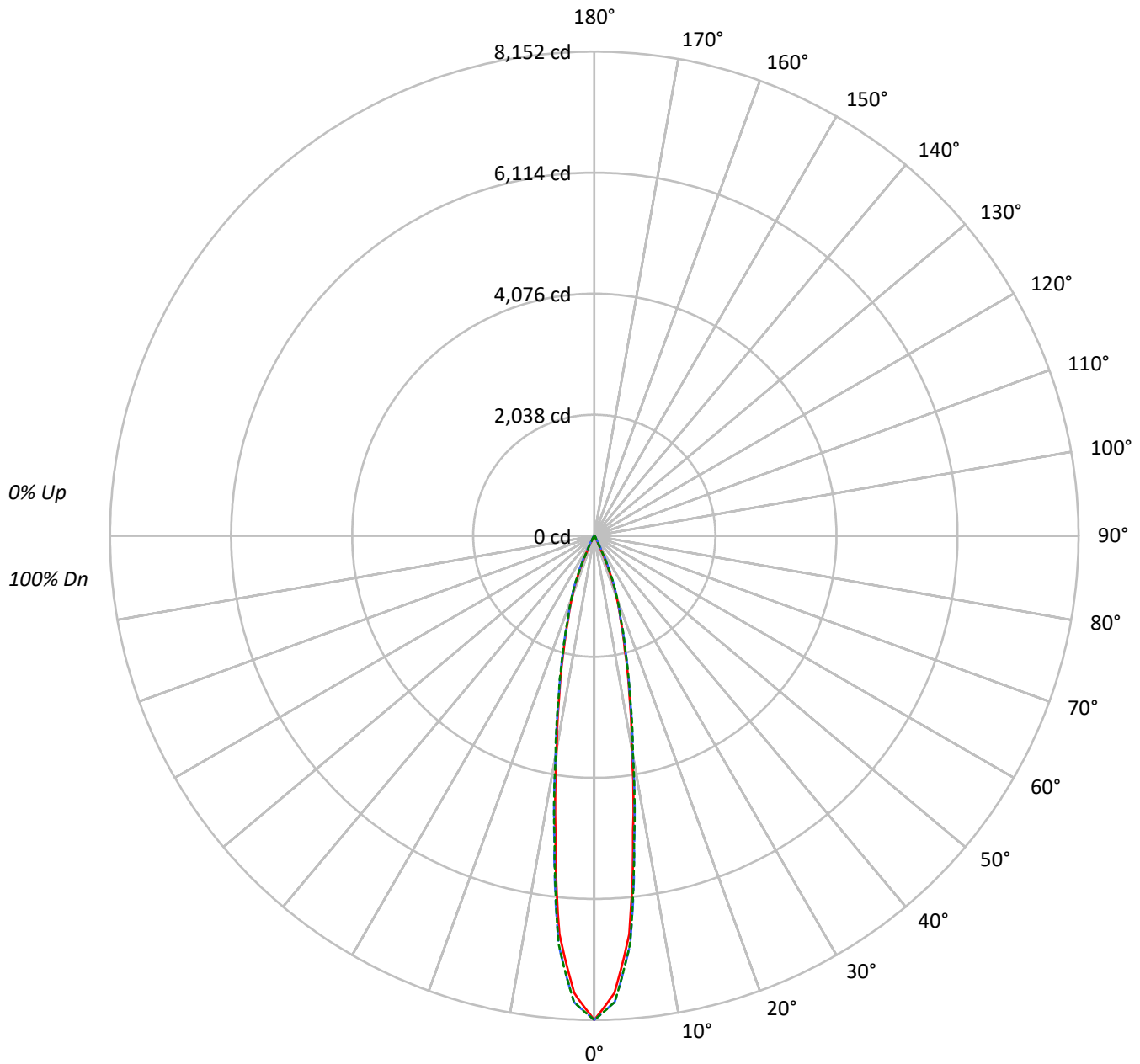
Lumens per Lamp: N/A
Luminaire Lumens: 1360.4 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	113	111	110	113	111	109	108	107	106	105		103	102	102		97
2	112	108	105	103	110	107	104	102	103	101	100		101	99	98		94
3	108	104	100	98	107	103	99	97	100	98	95		98	96	94		91
4	105	100	96	94	104	99	96	93	97	94	92		95	93	91		89
5	102	97	93	90	101	96	92	90	94	91	89		93	90	88		86
6	100	94	90	87	98	93	89	87	92	89	86		91	88	86		84
7	97	91	87	84	96	90	87	84	89	86	84		88	85	83		82
8	95	88	85	82	94	88	84	82	87	84	81		86	83	81		80
9	92	86	82	80	92	86	82	80	85	82	79		84	81	79		78
10	90	84	80	78	89	84	80	78	83	80	77		82	79	77		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	789728	789728	789728
5°	655055	672005	671052
10°	356935	367480	369340
15°	198459	204146	205199
20°	111886	115062	116515
25°	33681	49618	33531
30°	6343	9083	6343
35°	2732	4222	2815
40°	1328	2213	1328
45°	863	1151	685
50°	527	633	316
55°	355	355	236
60°	271	136	136
65°	160	160	160
70°	0	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°	542.7	39.9
10°-20°	578.5	42.5
20°-30°	211.0	15.5
30°-40°	20.1	1.5
40°-50°	5.5	0.4
50°-60°	1.7	0.1
60°-70°	0.7	0.1
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°	1332.3	97.9
0°-40°	1352.4	99.4
0°-60°	1359.6	99.9
0°-90°	1360.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8152	8152	8152	8152	8152	
5°	6736	6906	6910	6838	6901	532
15°	1979	2026	2036	2031	2046	566
25°	315	456	464	460	314	182
35°	23	28	36	28	24	16
45°	6	6	8	6	5	5
55°	2	2	2	1	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8152.0	8152.0	8152.0	8152.0	8152.0
2.5°	7707.2	7869.7	7857.8	7821.4	7857.8
5°	6736.1	6906.2	6910.4	6838.3	6900.6
7.5°	5007.2	5138.9	5162.0	5091.3	5138.2
10°	3628.5	3746.2	3735.7	3721.6	3754.6
12.5°	2710.5	2770.0	2763.8	2779.1	2781.3
15°	1978.8	2025.7	2035.5	2031.3	2046.0
17.5°	1457.2	1482.3	1477.5	1485.2	1490.7
20°	1085.3	1125.2	1116.1	1123.2	1130.2
22.5°	719.8	793.4	784.3	795.5	789.1
25°	315.1	455.8	464.2	460.1	313.7
27.5°	96.6	163.2	209.4	159.7	96.6
30°	56.7	67.9	81.2	66.5	56.7
32.5°	35.7	42.7	51.1	42.0	35.0
35°	23.1	28.0	35.7	28.0	23.8
37.5°	15.4	18.9	25.2	18.9	16.1
40°	10.5	12.6	17.5	13.3	10.5
42.5°	7.7	9.1	11.9	9.1	7.0
45°	6.3	6.3	8.4	6.3	5.0
47.5°	5.0	5.0	5.6	4.2	3.5
50°	3.5	3.5	4.2	2.8	2.1
52.5°	2.1	2.8	2.8	2.1	1.4
55°	2.1	2.1	2.1	1.4	1.4
57.5°	1.4	1.4	1.4	0.7	0.7
60°	1.4	1.4	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°	0.0	0.7	0.7	0.0	0.0
72.5°	0.0	0.7	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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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