

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: P1212291

Luminaire Tested: **LDSQA4A30927D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212291
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: LDSQA4A30927D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

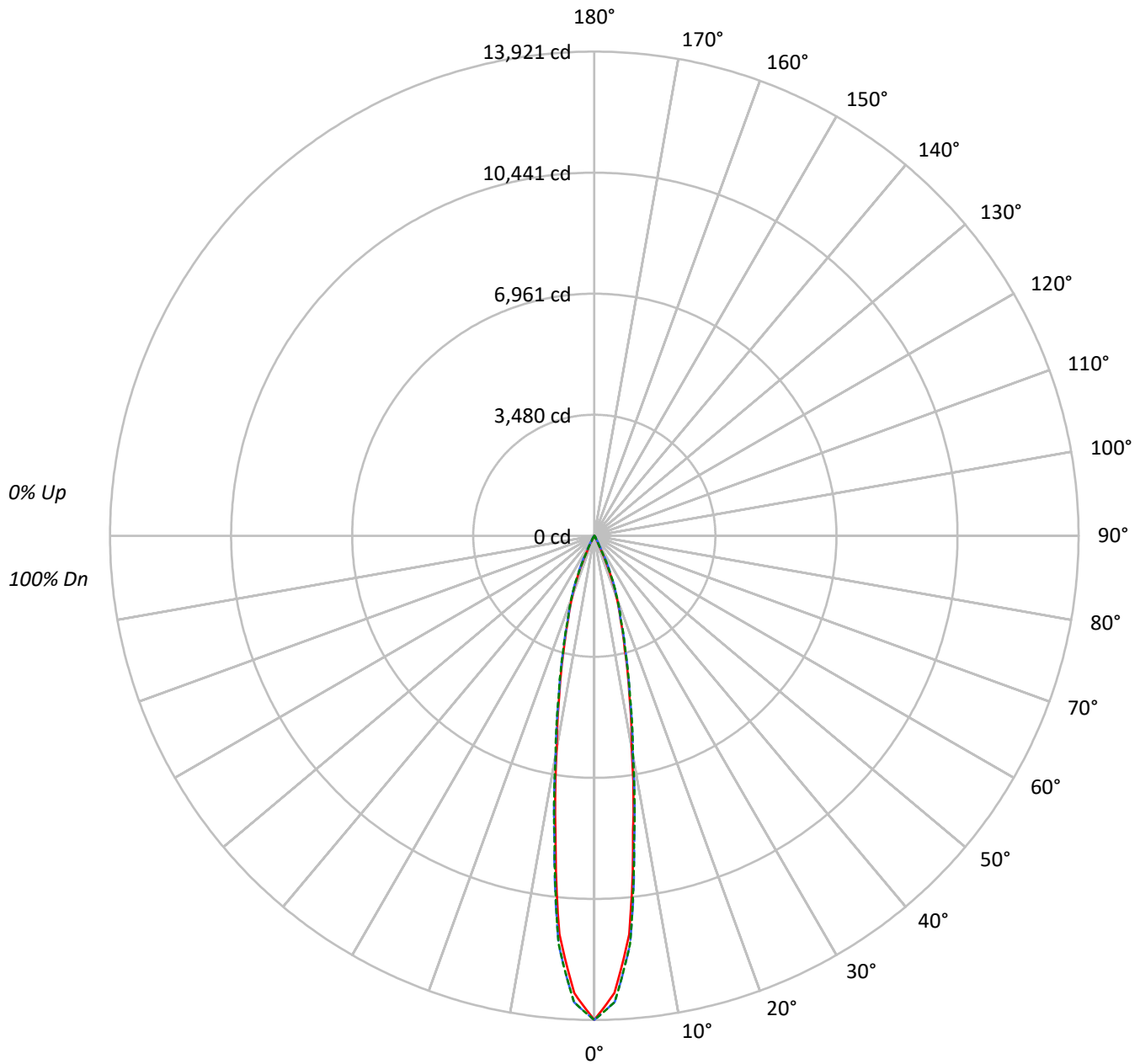
Lumens per Lamp: N/A
Luminaire Lumens: 2323.1 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1348593	1348593	1348593
5°	1118624	1147574	1145950
10°	609539	627531	630708
15°	338910	348618	350423
20°	191072	196495	198959
25°	57518	84743	57261
30°	10828	15515	10828
35°	4660	7214	4813
40°	2276	3781	2276
45°	1466	1973	1151
50°	904	1070	543
55°	608	608	405
60°	465	233	233
65°	275	275	275
70°	0	340	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.8	39.9
10°-20°	987.9	42.5
20°-30°	360.3	15.5
30°-40°	34.3	1.5
40°-50°	9.5	0.4
50°-60°	2.8	0.1
60°-70°	1.2	0.1
70°-80°	0.2	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°	2275.1	97.9
0°-40°	2309.4	99.4
0°-60°	2321.7	99.9
0°-90°	2323.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13921	13921	13921	13921	13921	
5°	11503	11794	11801	11678	11784	909
15°	3379	3459	3476	3469	3494	967
25°	538	778	793	786	536	311
35°	39	48	61	48	41	28
45°	11	11	14	11	8	8
55°	4	4	4	2	2	3
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°	13920.9	13920.9	13920.9	13920.9	13920.9
2.5°	13161.6	13439.0	13418.7	13356.5	13418.7
5°	11503.1	11793.7	11800.8	11677.6	11784.1
7.5°	8550.8	8775.6	8815.0	8694.3	8774.4
10°	6196.4	6397.3	6379.3	6355.5	6411.6
12.5°	4628.7	4730.4	4719.7	4745.9	4749.5
15°	3379.2	3459.3	3476.0	3468.9	3494.0
17.5°	2488.4	2531.4	2523.1	2536.2	2545.8
20°	1853.4	1921.6	1906.0	1917.9	1929.9
22.5°	1229.2	1354.8	1339.3	1358.4	1347.6
25°	538.1	778.5	792.8	785.6	535.7
27.5°	165.0	278.7	357.5	272.7	165.0
30°	96.8	115.9	138.7	113.6	96.8
32.5°	61.0	72.9	87.2	71.8	59.8
35°	39.4	47.8	61.0	47.8	40.7
37.5°	26.3	32.3	43.1	32.3	27.5
40°	18.0	21.5	29.9	22.7	18.0
42.5°	13.1	15.6	20.3	15.6	12.0
45°	10.7	10.7	14.4	10.7	8.4
47.5°	8.4	8.4	9.6	7.1	6.0
50°	6.0	6.0	7.1	4.7	3.6
52.5°	3.6	4.7	4.7	3.6	2.4
55°	3.6	3.6	3.6	2.4	2.4
57.5°	2.4	2.4	2.4	1.2	1.2
60°	2.4	2.4	1.2	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°	0.0	1.2	1.2	0.0	0.0
72.5°	0.0	1.2	0.0	0.0	0.0
75°	0.0	1.2	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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