

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: P1212293

Luminaire Tested: **LDSQA4A30927D010TE LAR25NF 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212293
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: LDSQA4A30927D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

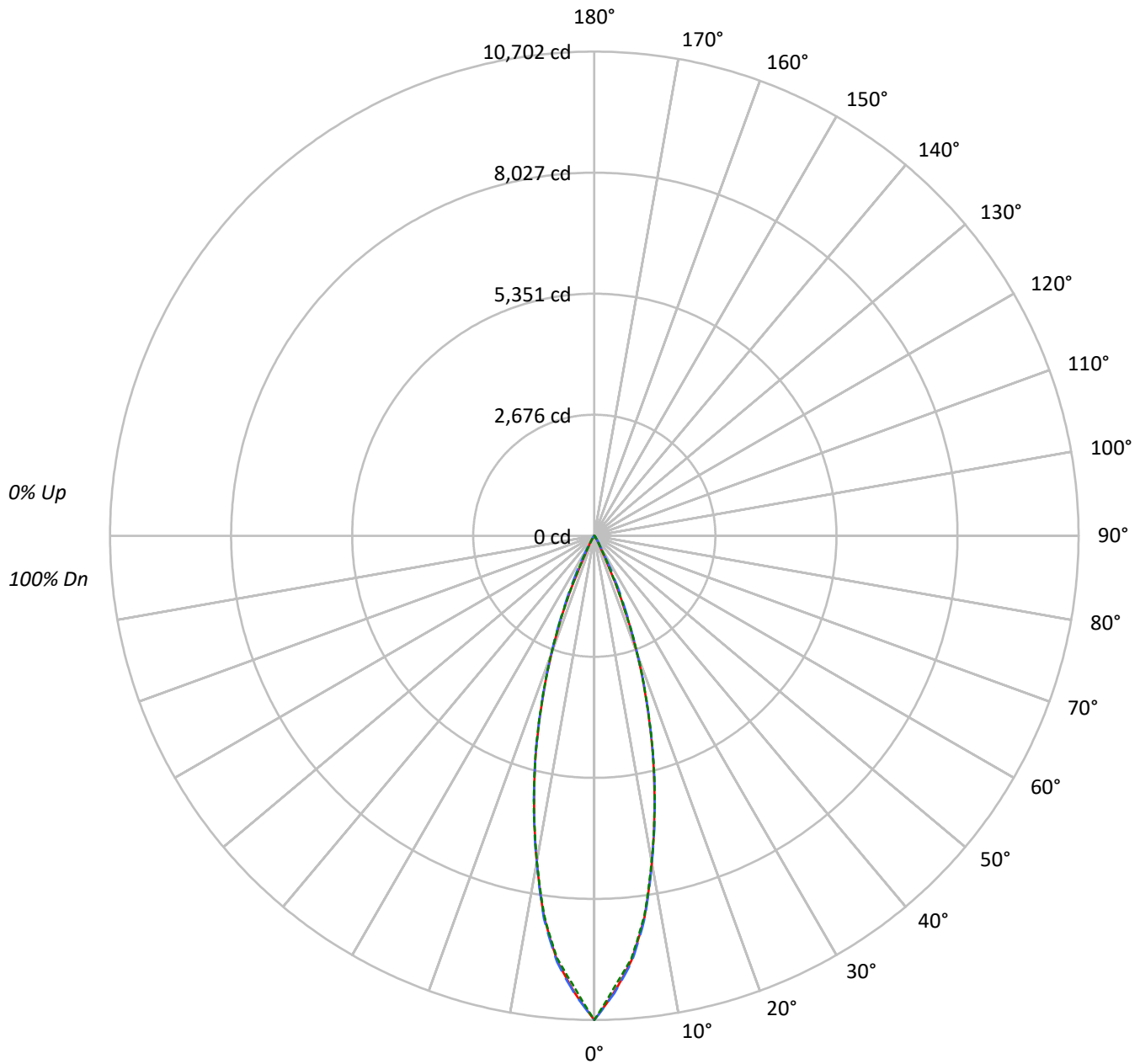
Lumens per Lamp: N/A
Luminaire Lumens: 2775.1 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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		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°	1036809	1036809	1036809
5°	916480	919612	911822
10°	720323	721150	718090
15°	501434	502868	503239
20°	284453	286309	287299
25°	76672	116040	86250
30°	18983	25952	19531
35°	5653	11885	6079
40°	2276	3933	2276
45°	1151	1644	973
50°	708	708	362
55°	608	405	203
60°	465	233	233
65°	275	275	275
70°	340	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°	839.6	30.3
10°-20°	1365.4	49.2
20°-30°	507.5	18.3
30°-40°	50.4	1.8
40°-50°	8.4	0.3
50°-60°	2.3	0.1
60°-70°	1.2	0.0
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°	2712.5	97.7
0°-40°	2762.9	99.6
0°-60°	2773.6	99.9
0°-90°	2775.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10702	10702	10702	10702	10702	
5°	9424	9519	9457	9568	9376	834
15°	5000	5056	5014	5096	5018	1353
25°	717	1053	1086	1014	807	448
35°	48	60	100	62	51	38
45°	8	10	12	10	7	7
55°	4	2	2	2	1	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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10702.5	10702.5	10702.5	10702.5	10702.5
2.5°	10099.8	10153.6	10120.2	10209.9	9993.5
5°	9424.4	9518.8	9456.6	9567.8	9376.5
7.5°	8496.7	8594.7	8531.3	8639.0	8468.0
10°	7322.6	7395.5	7331.0	7435.1	7299.9
12.5°	6148.7	6221.6	6173.8	6269.4	6161.8
15°	4999.7	5056.0	5014.0	5096.5	5017.7
17.5°	3832.8	3886.6	3848.4	3915.3	3855.6
20°	2759.2	2805.9	2777.2	2833.4	2786.8
22.5°	1713.2	1837.5	1857.8	1862.7	1727.5
25°	717.3	1053.3	1085.6	1013.8	806.9
27.5°	295.3	387.4	516.5	407.7	310.9
30°	169.7	197.3	232.0	203.3	174.6
32.5°	84.9	109.9	151.9	115.9	89.6
35°	47.8	59.8	100.5	62.1	51.4
37.5°	28.7	34.7	50.2	35.8	29.8
40°	18.0	21.5	31.1	22.7	18.0
42.5°	12.0	14.4	19.1	14.4	12.0
45°	8.4	9.6	12.0	9.6	7.1
47.5°	6.0	6.0	7.1	6.0	4.7
50°	4.7	4.7	4.7	3.6	2.4
52.5°	3.6	3.6	3.6	2.4	2.4
55°	3.6	2.4	2.4	2.4	1.2
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°	1.2	1.2	1.2	1.2	0.0
72.5°	0.0	0.0	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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