

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: P1219452

Luminaire Tested: **LDSQA4A10950D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219452
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: LDSQA4A10950D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

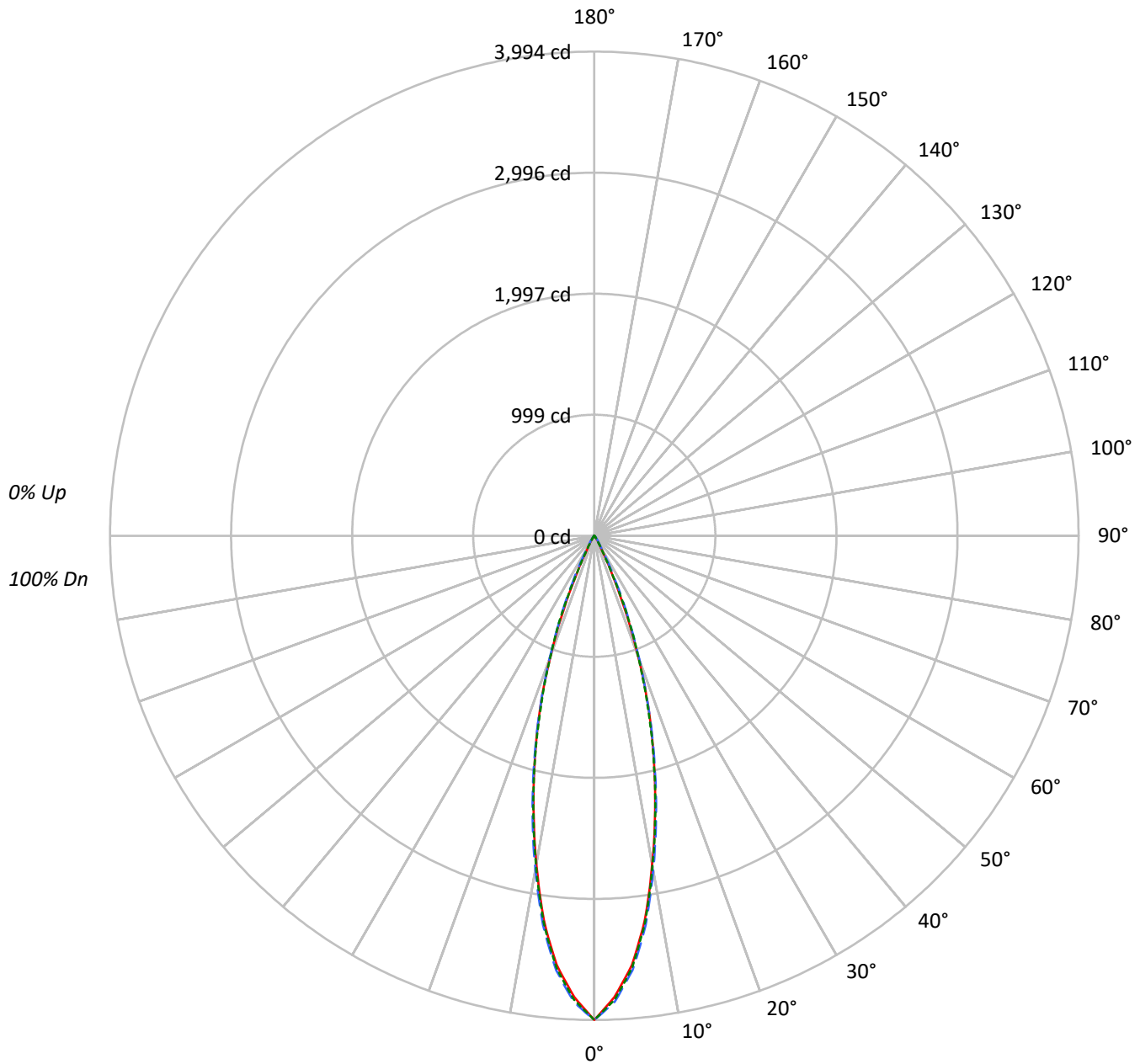
Lumens per Lamp: N/A
Luminaire Lumens: 1065.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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°	386940	386940	386940
5°	345572	349918	347740
10°	270507	275347	271963
15°	189955	191349	188902
20°	109031	111278	108917
25°	34515	45396	35627
30°	9173	11388	8826
35°	3110	5641	3169
40°	1378	2264	1378
45°	754	1028	617
50°	452	512	301
55°	253	253	169
60°	194	194	97
65°	115	115	115
70°	142	142	142
75°	0	187	187
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	29.7
10°-20°	516.6	48.5
20°-30°	200.1	18.8
30°-40°	24.5	2.3
40°-50°	5.2	0.5
50°-60°	1.4	0.1
60°-70°	0.5	0.1
70°-80°	0.3	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°	1033.4	97.0
0°-40°	1058.0	99.3
0°-60°	1064.5	99.9
0°-90°	1065.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3994	3994	3994	3994	3994	
5°	3554	3605	3598	3576	3576	314
15°	1894	1919	1908	1894	1884	514
25°	323	404	425	417	333	181
35°	26	32	48	31	27	20
45°	6	6	8	6	4	5
55°	2	2	2	1	1	2
65°	0	0	0	0	0	1
75°	0	0	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°	3994.2	3994.2	3994.2	3994.2	3994.2
2.5°	3807.4	3860.6	3848.1	3823.4	3829.8
5°	3553.6	3605.3	3598.3	3576.5	3575.9
7.5°	3195.4	3246.2	3240.1	3213.8	3211.3
10°	2749.9	2796.0	2799.1	2760.8	2764.7
12.5°	2314.7	2352.5	2354.0	2327.6	2322.2
15°	1894.0	1919.3	1907.9	1894.0	1883.5
17.5°	1479.3	1484.7	1482.2	1461.8	1454.4
20°	1057.6	1081.4	1079.4	1062.0	1056.5
22.5°	658.6	701.9	721.8	705.8	714.3
25°	322.9	404.4	424.7	417.2	333.3
27.5°	131.1	171.4	213.6	168.9	126.7
30°	82.0	89.4	101.8	85.9	78.9
32.5°	43.3	54.2	69.1	52.6	43.3
35°	26.3	31.8	47.7	31.3	26.8
37.5°	16.8	19.9	27.8	19.9	17.4
40°	10.9	12.9	17.9	12.9	10.9
42.5°	7.5	8.4	11.4	8.4	7.0
45°	5.5	5.9	7.5	5.5	4.5
47.5°	4.0	4.5	5.0	3.4	3.0
50°	3.0	3.0	3.4	2.5	2.0
52.5°	2.0	2.5	2.5	1.5	1.5
55°	1.5	1.5	1.5	1.0	1.0
57.5°	1.5	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.0
75°	0.0	0.5	0.5	0.5	0.5
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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