

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: P1212365

Luminaire Tested: **LDSQA4A35930D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212365
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: LDSQA4A35930D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

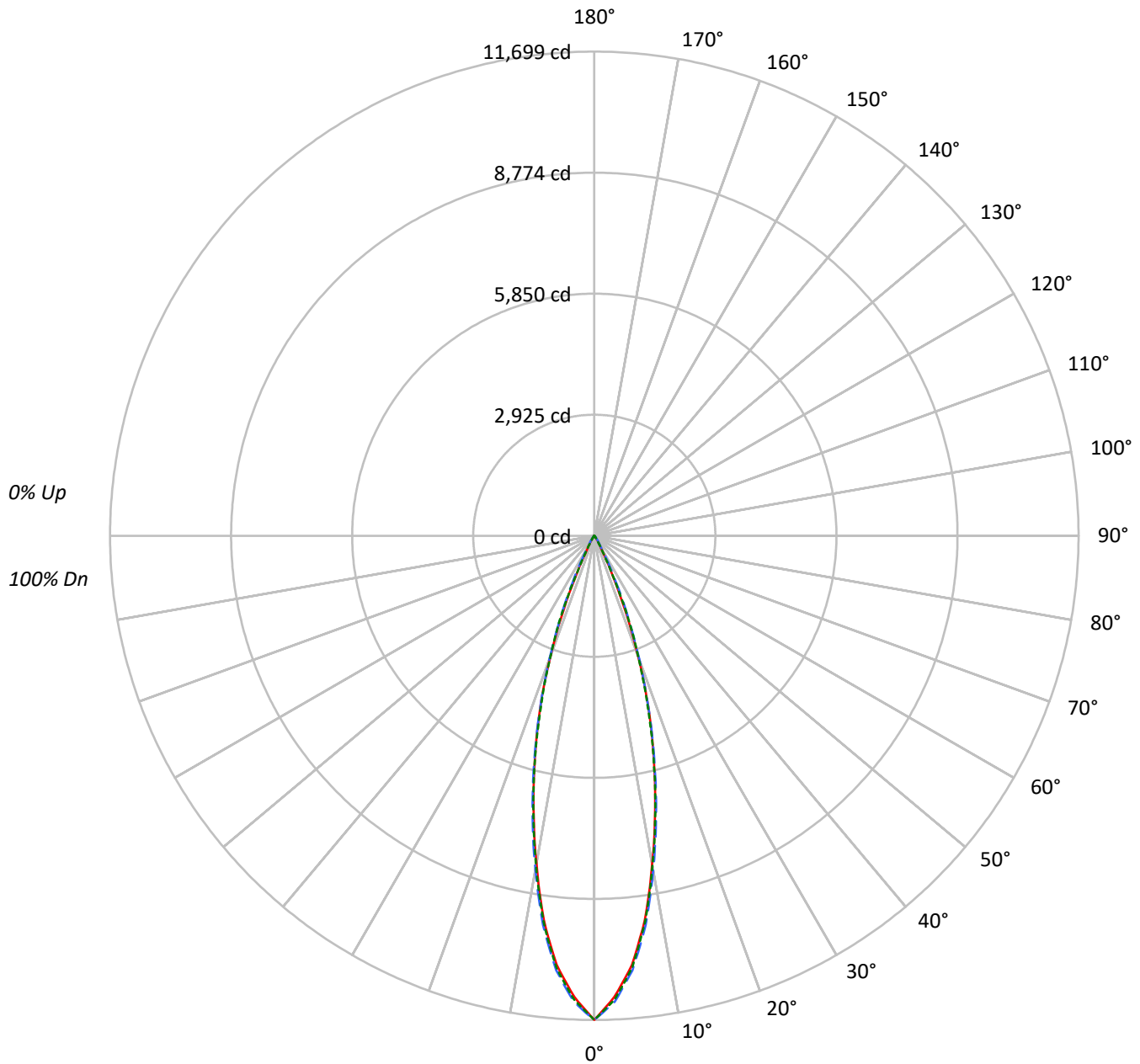
Lumens per Lamp: N/A
Luminaire Lumens: 3120.3 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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°	1133326	1133326	1133326
5°	1012160	1024890	1018520
10°	792301	806466	796590
15°	556364	560456	553316
20°	319330	325928	319031
25°	101086	132971	104346
30°	26858	33368	25874
35°	9130	16510	9284
40°	4047	6627	4047
45°	2206	2987	1795
50°	1311	1537	874
55°	726	726	490
60°	562	562	291
65°	344	344	344
70°	425	425	425
75°	0	561	561
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.9	29.7
10°-20°	1513.0	48.5
20°-30°	586.0	18.8
30°-40°	71.8	2.3
40°-50°	15.1	0.5
50°-60°	4.0	0.1
60°-70°	1.6	0.1
70°-80°	0.9	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°	3026.9	97.0
0°-40°	3098.7	99.3
0°-60°	3117.9	99.9
0°-90°	3120.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11699	11699	11699	11699	11699	
5°	10408	10560	10539	10475	10474	920
15°	5547	5622	5588	5547	5517	1505
25°	946	1184	1244	1222	976	530
35°	77	93	140	92	78	59
45°	16	17	22	16	13	13
55°	4	4	4	3	3	4
65°	2	2	2	2	2	2
75°	0	2	2	2	2	1
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°	11698.8	11698.8	11698.8	11698.8	11698.8
2.5°	11151.8	11307.3	11271.0	11198.3	11217.3
5°	10408.3	10559.6	10539.2	10475.2	10473.7
7.5°	9359.3	9507.7	9490.2	9413.1	9405.9
10°	8054.3	8189.5	8198.3	8086.2	8097.9
12.5°	6779.9	6890.3	6894.7	6817.5	6801.6
15°	5547.4	5621.7	5588.2	5547.4	5517.0
17.5°	4332.6	4348.7	4341.3	4281.8	4259.8
20°	3097.5	3167.3	3161.5	3110.5	3094.6
22.5°	1929.2	2055.8	2113.9	2067.4	2092.2
25°	945.7	1184.3	1244.0	1222.2	976.2
27.5°	384.1	501.9	625.6	494.7	370.9
30°	240.1	261.9	298.3	251.6	231.3
32.5°	126.5	158.6	202.2	154.2	126.5
35°	77.2	93.1	139.6	91.7	78.5
37.5°	49.4	58.2	81.5	58.2	51.0
40°	32.0	37.8	52.4	37.8	32.0
42.5°	21.8	24.7	33.5	24.7	20.4
45°	16.1	17.4	21.8	16.1	13.1
47.5°	11.7	13.1	14.6	10.2	8.7
50°	8.7	8.7	10.2	7.2	5.8
52.5°	5.8	7.2	7.2	4.3	4.3
55°	4.3	4.3	4.3	2.9	2.9
57.5°	4.3	2.9	2.9	2.9	2.9
60°	2.9	2.9	2.9	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	0.0
75°	0.0	1.5	1.5	1.5	1.5
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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