

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: P1212325

Luminaire Tested: **LDSQA4A30935D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30935D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

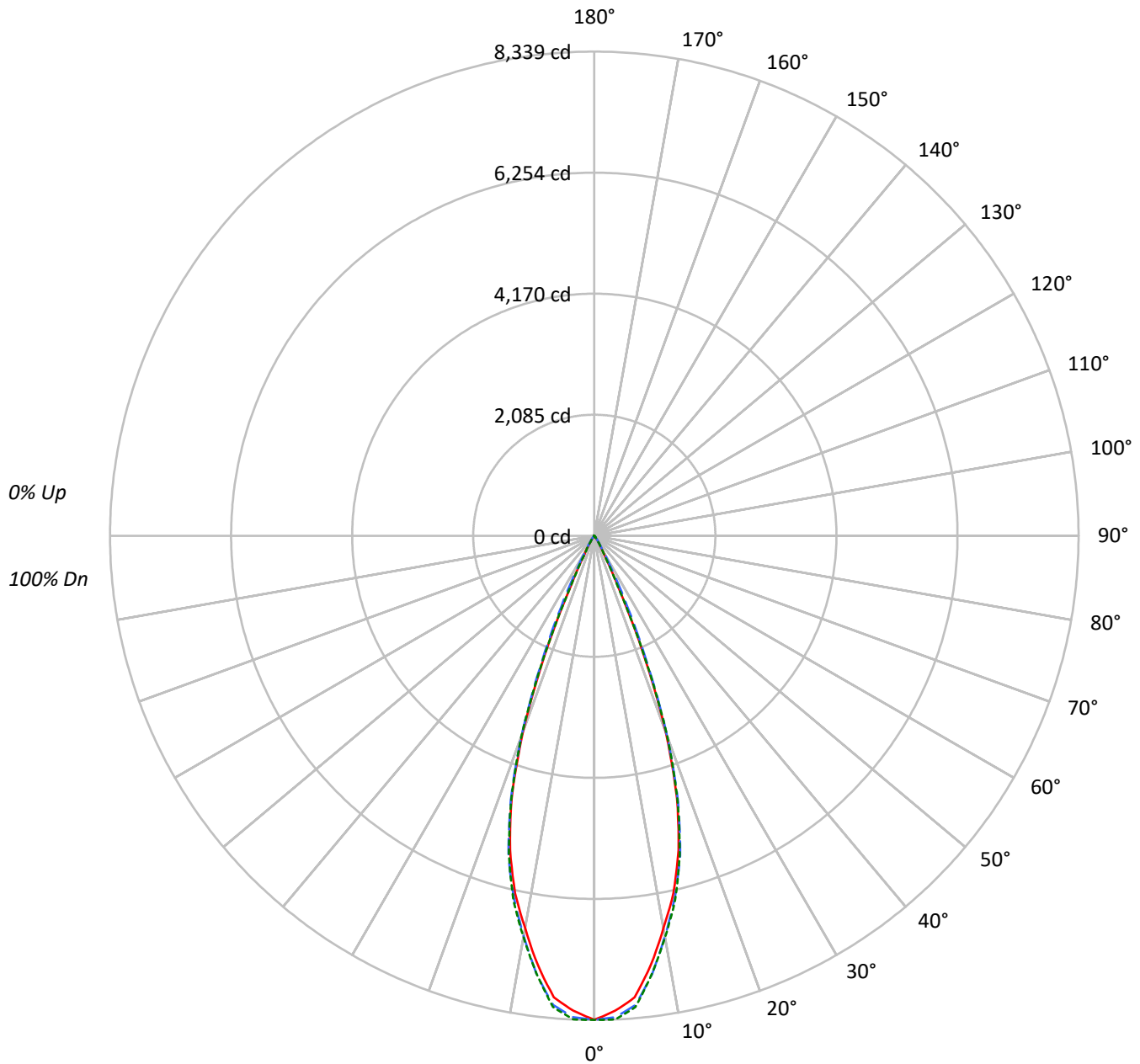
Lumens per Lamp: N/A
Luminaire Lumens: 2970.4 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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	112	110	109	107	107	105	104		103	102	101		99
2	111	107	104	101	109	105	103	100	102	100	98		99	98	96		97
3	107	102	98	95	105	101	97	95	98	96	93		96	94	92		94
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91
5	100	94	90	86	99	93	89	86	91	88	85		90	87	85		88
6	97	90	86	83	96	90	85	82	88	85	82		87	84	81		86
7	94	87	83	79	93	86	82	79	85	82	79		84	81	79		83
8	91	84	80	77	90	83	79	76	82	79	76		82	78	76		81
9	88	81	77	74	87	81	77	74	80	76	73		79	76	73		78
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	807612	807612	807612
5°	776058	789079	792269
10°	674837	688629	690616
15°	562121	572642	570115
20°	369371	377701	378226
25°	102465	144035	100840
30°	24587	31221	25001
35°	6575	11341	6434
40°	2403	4312	2226
45°	1206	1562	1041
50°	769	769	573
55°	422	422	203
60°	484	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°	732.6	24.7
10°-20°	1519.0	51.1
20°-30°	648.8	21.8
30°-40°	57.3	1.9
40°-50°	8.5	0.3
50°-60°	2.4	0.1
60°-70°	1.2	0.0
70°-80°	0.5	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°	2900.4	97.6
0°-40°	2957.7	99.6
0°-60°	2968.7	99.9
0°-90°	2970.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2970.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8337	8337	8337	8337	8337	
5°	7980	8046	8114	8102	8147	723
15°	5605	5659	5710	5668	5684	1503
25°	959	1306	1348	1289	943	588
35°	56	70	96	68	54	47
45°	9	9	11	9	8	8
55°	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8336.6	8336.6	8336.6	8336.6	8336.6
2.5°	8190.0	8248.2	8300.0	8296.1	8339.1
5°	7980.4	8046.1	8114.3	8101.6	8147.1
7.5°	7457.5	7524.4	7612.9	7578.8	7609.1
10°	6860.2	6931.0	7000.4	6978.9	7020.6
12.5°	6300.8	6341.1	6391.6	6387.9	6432.1
15°	5604.8	5659.2	5709.7	5668.0	5684.5
17.5°	4733.5	4754.9	4792.8	4751.1	4762.5
20°	3582.9	3642.2	3663.7	3615.8	3668.8
22.5°	2241.7	2384.4	2395.7	2370.5	2291.0
25°	958.6	1305.8	1347.5	1289.4	943.4
27.5°	387.7	495.1	641.6	485.0	377.6
30°	219.8	238.7	279.1	234.9	223.5
32.5°	104.9	133.9	160.3	130.1	106.1
35°	55.6	69.5	95.9	68.3	54.4
37.5°	31.5	40.5	58.1	37.9	31.5
40°	19.0	24.0	34.1	22.7	17.6
42.5°	12.7	15.1	19.0	13.9	11.4
45°	8.8	8.8	11.4	8.8	7.6
47.5°	6.3	6.3	7.6	5.1	5.1
50°	5.1	5.1	5.1	3.8	3.8
52.5°	3.8	3.8	3.8	2.5	2.5
55°	2.5	2.5	2.5	2.5	1.2
57.5°	2.5	2.5	2.5	1.2	1.2
60°	2.5	2.5	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°	1.2	1.2	1.2	1.2	1.2
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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