

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: P1219580

Luminaire Tested: **LDSQA4A35950D010TE 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: P1219580
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: LDSQA4A35950D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

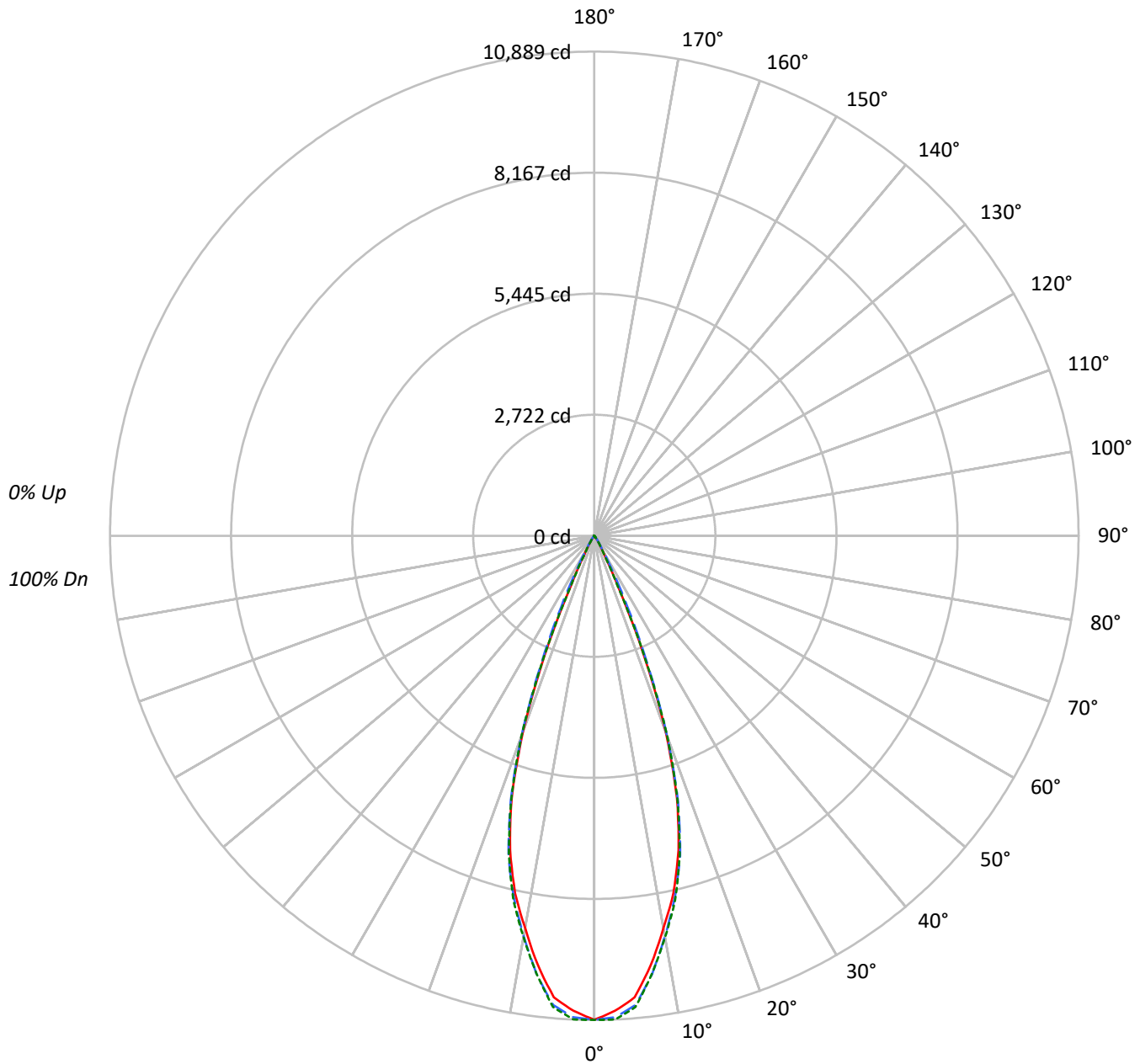
Lumens per Lamp: N/A
Luminaire Lumens: 3878.8 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	1054557	1054557	1054557
5°	1013356	1030345	1034517
10°	881178	899179	901776
15°	734003	747723	744423
20°	482309	493185	493886
25°	133784	188084	131667
30°	32093	40774	32653
35°	8586	14818	8385
40°	3136	5640	2921
45°	1562	2041	1356
50°	995	995	738
55°	540	540	287
60°	620	329	329
65°	390	390	390
70°	482	482	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.6	24.7
10°-20°	1983.5	51.1
20°-30°	847.1	21.8
30°-40°	74.8	1.9
40°-50°	11.1	0.3
50°-60°	3.1	0.1
60°-70°	1.7	0.0
70°-80°	0.7	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°	3787.3	97.6
0°-40°	3862.1	99.6
0°-60°	3876.4	99.9
0°-90°	3878.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10886	10886	10886	10886	10886	
5°	10421	10506	10595	10579	10638	944
15°	7319	7390	7455	7401	7422	1962
25°	1252	1705	1760	1684	1232	767
35°	73	91	125	89	71	61
45°	11	11	15	11	10	10
55°	3	3	3	3	2	4
65°	2	2	2	2	2	2
75°	0	2	0	0	0	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°	10885.7	10885.7	10885.7	10885.7	10885.7
2.5°	10694.3	10770.1	10837.8	10832.7	10888.9
5°	10420.6	10506.3	10595.3	10578.9	10638.2
7.5°	9737.8	9825.2	9940.6	9896.1	9935.7
10°	8957.8	9050.2	9140.8	9112.8	9167.2
12.5°	8227.2	8280.0	8346.0	8341.1	8398.7
15°	7318.6	7389.5	7455.4	7401.0	7422.5
17.5°	6180.6	6208.8	6258.3	6203.8	6218.7
20°	4678.4	4755.9	4783.9	4721.3	4790.7
22.5°	2927.2	3113.4	3128.3	3095.2	2991.4
25°	1251.6	1705.2	1759.6	1683.8	1231.8
27.5°	506.3	646.4	837.7	633.3	493.1
30°	286.9	311.7	364.5	306.8	291.9
32.5°	137.0	174.7	209.5	169.8	138.5
35°	72.6	90.7	125.3	89.1	70.9
37.5°	41.3	52.7	75.8	49.5	41.3
40°	24.8	31.3	44.6	29.6	23.1
42.5°	16.5	19.9	24.8	18.1	14.9
45°	11.4	11.4	14.9	11.4	9.9
47.5°	8.2	8.2	9.9	6.6	6.6
50°	6.6	6.6	6.6	4.9	4.9
52.5°	4.9	4.9	4.9	3.2	3.2
55°	3.2	3.2	3.2	3.2	1.7
57.5°	3.2	3.2	3.2	1.7	1.7
60°	3.2	3.2	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	0.0
72.5°	1.7	1.7	1.7	1.7	1.7
75°	0.0	1.7	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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