

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: P1212397

Luminaire Tested: **LDSQA4A35940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35940D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

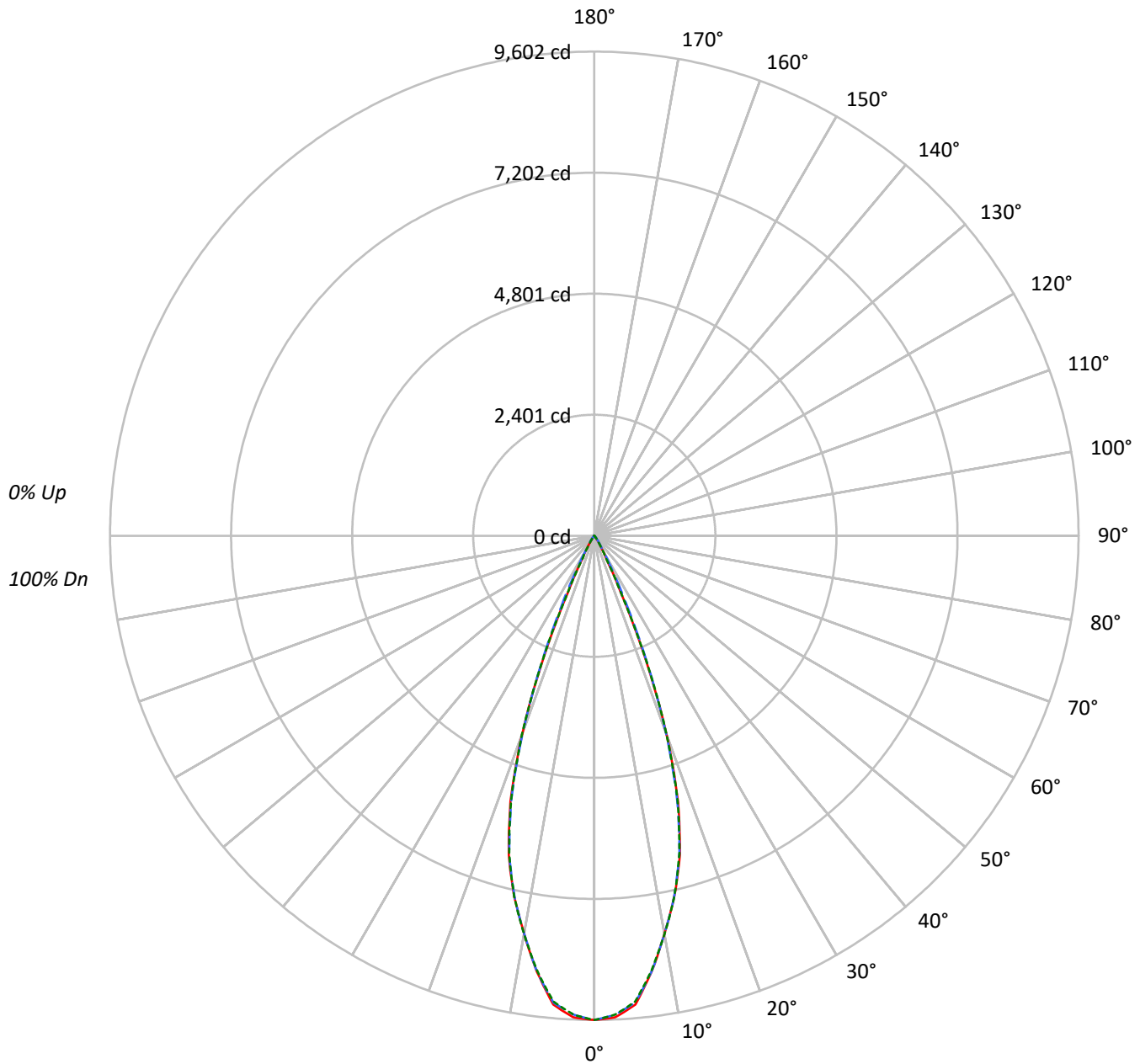
Lumens per Lamp: N/A
Luminaire Lumens: 3463.2 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	94	92		94	92	90
4	103	98	93	90	102	97	93	90		95	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	87	84		88	86	84
6	97	90	86	82	95	89	85	82		88	84	82		87	83	81		85	83	81
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		79	76	73		79	75	73		78	75	73
10	85	78	74	71	84	78	74	71		77	73	71		76	73	70		76	72	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	930237	930237	930237
5°	907738	903731	902030
10°	788277	788120	789054
15°	657530	654020	653709
20°	431288	427866	431618
25°	131881	166802	131379
30°	32999	39924	32295
35°	10691	16510	10502
40°	5021	7828	4426
45°	2617	3261	1959
50°	1432	1658	949
55°	794	1064	524
60°	601	601	601
65°	367	367	367
70°	453	453	453
75°	0	599	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.6	24.4
10°-20°	1748.0	50.5
20°-30°	763.3	22.0
30°-40°	83.3	2.4
40°-50°	17.2	0.5
50°-60°	4.7	0.1
60°-70°	2.0	0.1
70°-80°	1.2	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°	3354.9	96.9
0°-40°	3438.2	99.3
0°-60°	3460.1	99.9
0°-90°	3463.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9602	9602	9602	9602	9602	
5°	9334	9309	9293	9317	9276	845
15°	6556	6527	6521	6531	6518	1754
25°	1234	1521	1560	1535	1229	714
35°	90	108	140	106	89	71
45°	19	21	24	17	14	16
55°	5	5	6	3	3	5
65°	2	2	2	2	2	2
75°	0	2	2	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°	9602.4	9602.4	9602.4	9602.4	9602.4
2.5°	9559.6	9524.8	9505.8	9547.0	9505.8
5°	9334.5	9309.2	9293.3	9317.1	9275.8
7.5°	8717.6	8692.3	8714.4	8714.4	8693.8
10°	8013.4	7999.1	8011.8	8045.1	8021.3
12.5°	7329.9	7318.8	7323.6	7358.5	7331.5
15°	6556.1	6527.4	6521.1	6530.7	6518.0
17.5°	5525.2	5482.4	5455.4	5477.7	5484.0
20°	4183.5	4183.5	4150.3	4169.3	4186.7
22.5°	2675.4	2737.2	2743.6	2740.3	2729.3
25°	1233.8	1520.8	1560.5	1535.1	1229.1
27.5°	499.6	616.9	767.5	636.0	482.1
30°	295.0	310.9	356.9	306.0	288.7
32.5°	155.4	187.1	218.9	185.6	150.7
35°	90.4	107.9	139.6	106.3	88.8
37.5°	58.8	68.2	93.6	68.2	55.5
40°	39.7	44.4	61.9	42.9	35.0
42.5°	26.9	30.1	39.7	26.9	22.2
45°	19.1	20.7	23.8	17.4	14.3
47.5°	12.8	14.3	15.9	11.0	9.5
50°	9.5	9.5	11.0	7.9	6.3
52.5°	6.3	7.9	7.9	4.7	4.7
55°	4.7	4.7	6.3	3.1	3.1
57.5°	4.7	4.7	4.7	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1
62.5°	1.6	3.1	3.1	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	1.6	1.6	1.6
75°	0.0	1.6	1.6	0.0	0.0
77.5°	0.0	1.6	1.6	1.6	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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(END OF REPORT)