

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: P1212297

Luminaire Tested: **LDSQA4A30927D010TE 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: P1212297
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: LDSQA4A30927D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

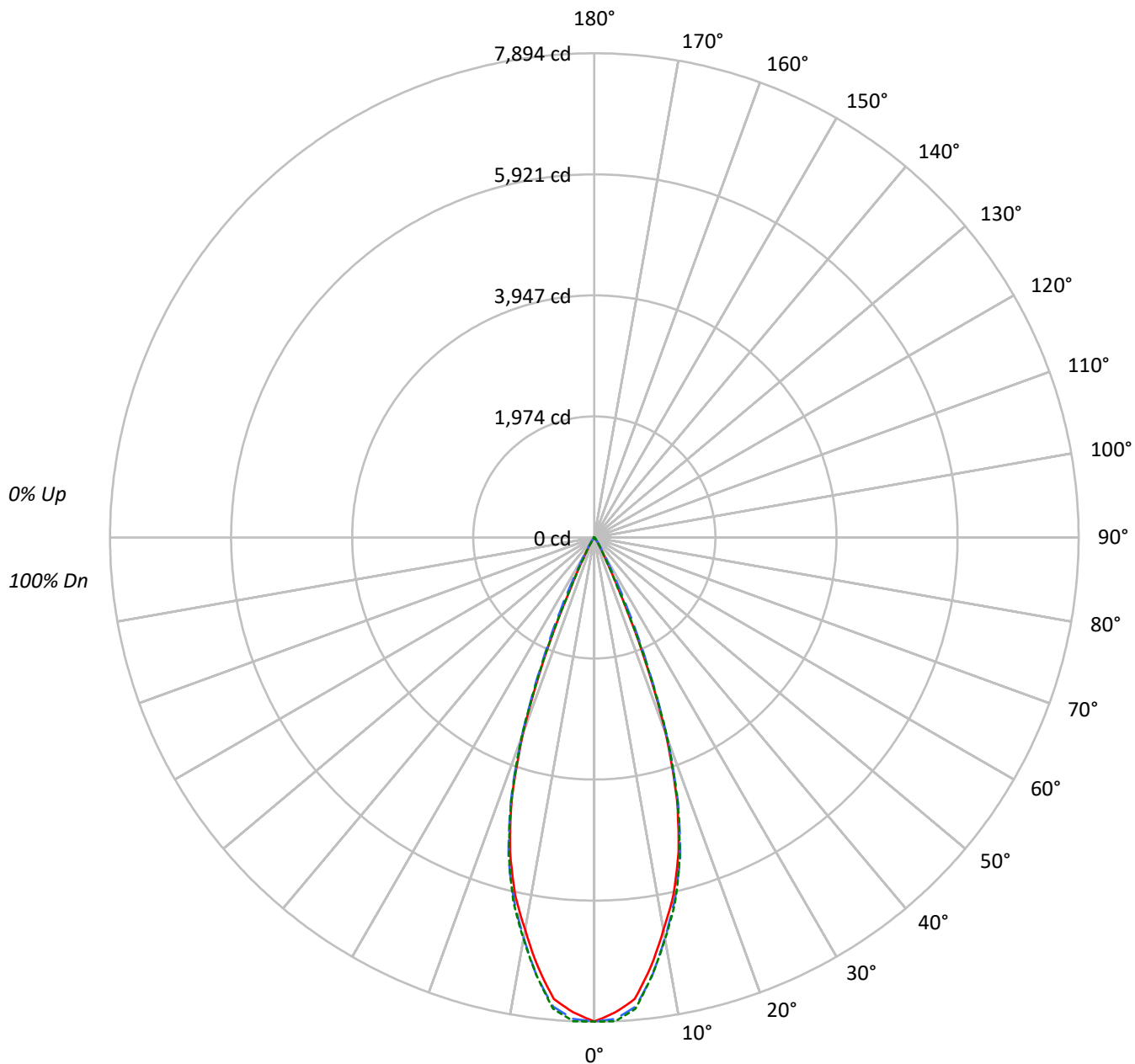
Lumens per Lamp: N/A
Luminaire Lumens: 2812.1 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	764541	764541	764541
5°	734670	747001	750025
10°	638844	651907	653786
15°	532144	542103	539706
20°	349670	357567	358061
25°	96992	136360	95474
30°	23267	29554	23670
35°	6232	10750	6079
40°	2276	4085	2112
45°	1151	1466	973
50°	708	708	543
55°	405	405	203
60°	465	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°	693.6	24.7
10°-20°	1438.0	51.1
20°-30°	614.2	21.8
30°-40°	54.3	1.9
40°-50°	8.1	0.3
50°-60°	2.3	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°	2745.8	97.6
0°-40°	2800.0	99.6
0°-60°	2810.4	99.9
0°-90°	2812.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7892	7892	7892	7892	7892	
5°	7555	7617	7682	7670	7713	685
15°	5306	5357	5405	5366	5381	1423
25°	907	1236	1276	1221	893	556
35°	53	66	91	64	51	44
45°	8	8	11	8	7	7
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°	7892.0	7892.0	7892.0	7892.0	7892.0
2.5°	7753.3	7808.3	7857.3	7853.7	7894.4
5°	7554.8	7617.0	7681.6	7669.6	7712.7
7.5°	7059.9	7123.3	7206.9	7174.7	7203.3
10°	6494.3	6561.3	6627.1	6606.8	6646.2
12.5°	5964.7	6003.0	6050.8	6047.2	6089.1
15°	5305.9	5357.3	5405.2	5365.7	5381.3
17.5°	4481.0	4501.4	4537.2	4497.7	4508.5
20°	3391.8	3448.1	3468.4	3422.9	3473.2
22.5°	2122.1	2257.3	2268.0	2244.1	2168.8
25°	907.4	1236.2	1275.7	1220.7	893.2
27.5°	367.0	468.6	607.4	459.1	357.5
30°	208.0	226.0	264.2	222.4	211.6
32.5°	99.2	126.8	151.9	123.2	100.5
35°	52.7	65.8	90.9	64.5	51.4
37.5°	29.9	38.3	55.0	35.8	29.9
40°	18.0	22.7	32.3	21.5	16.7
42.5°	12.0	14.4	18.0	13.1	10.7
45°	8.4	8.4	10.7	8.4	7.1
47.5°	6.0	6.0	7.1	4.7	4.7
50°	4.7	4.7	4.7	3.6	3.6
52.5°	3.6	3.6	3.6	2.4	2.4
55°	2.4	2.4	2.4	2.4	1.2
57.5°	2.4	2.4	2.4	1.2	1.2
60°	2.4	2.4	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

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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