

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: P1219482

Luminaire Tested: **LDSQA4A15930D010TE 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: P1219482
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: LDSQA4A15930D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

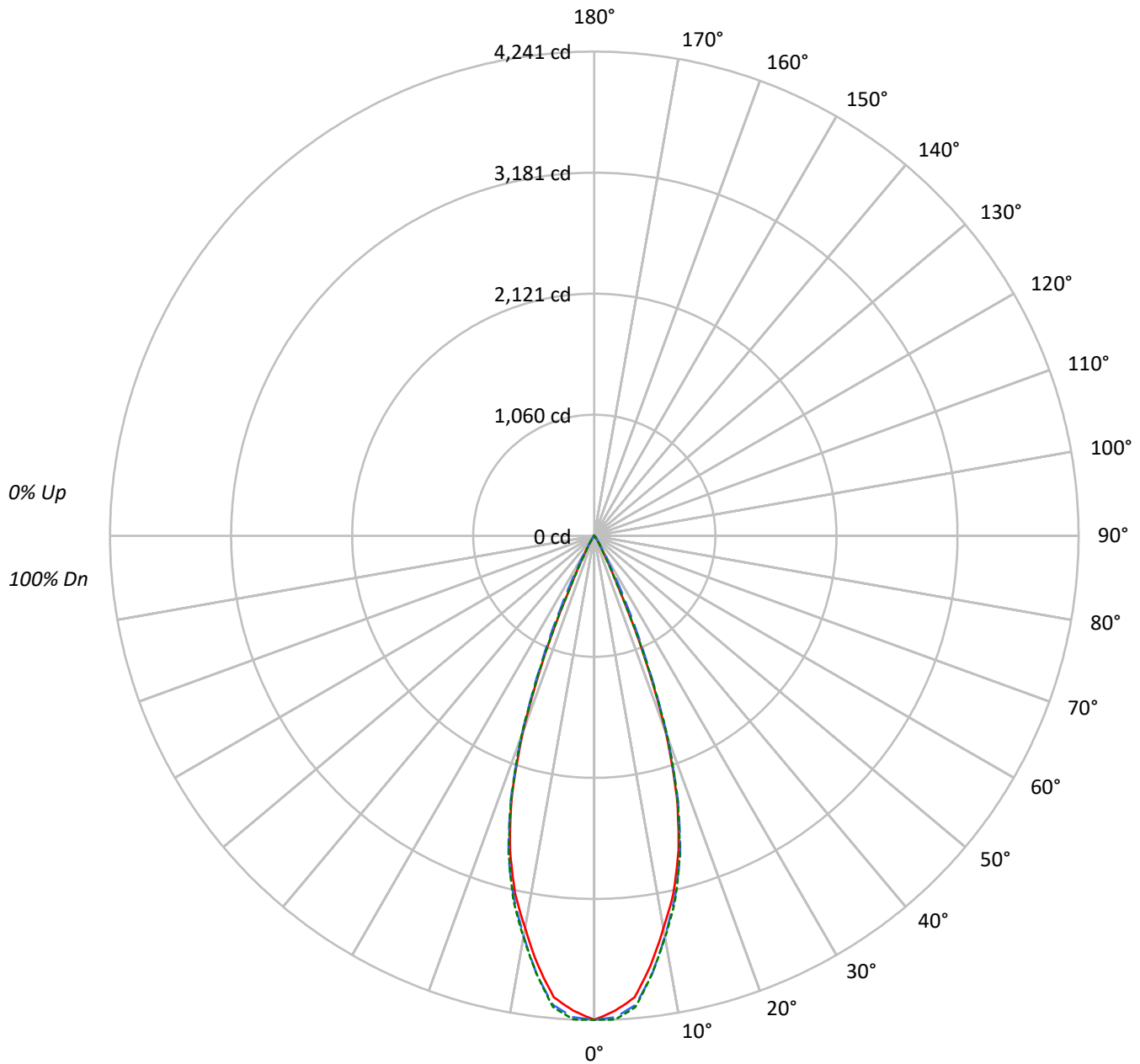
Lumens per Lamp: N/A
Luminaire Lumens: 1510.6 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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°	410713	410713	410713
5°	394661	401283	402907
10°	343193	350197	351210
15°	285865	291220	289926
20°	187845	192082	192350
25°	52109	73252	51286
30°	12506	15884	12719
35°	3335	5771	3264
40°	1214	2188	1138
45°	617	781	534
50°	392	392	286
55°	220	220	101
60°	252	116	116
65°	138	138	138
70°	170	170	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	24.7
10°-20°	772.5	51.1
20°-30°	329.9	21.8
30°-40°	29.1	1.9
40°-50°	4.3	0.3
50°-60°	1.2	0.1
60°-70°	0.6	0.0
70°-80°	0.3	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°	1475.0	97.6
0°-40°	1504.2	99.6
0°-60°	1509.7	99.9
0°-90°	1510.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1510.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4240	4240	4240	4240	4240	
5°	4058	4092	4126	4120	4143	368
15°	2850	2878	2904	2882	2891	764
25°	488	664	685	656	480	299
35°	28	35	49	35	28	24
45°	4	4	6	4	4	4
55°	1	1	1	1	1	1
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°	4239.6	4239.6	4239.6	4239.6	4239.6
2.5°	4165.0	4194.6	4220.9	4219.0	4240.9
5°	4058.4	4091.9	4126.5	4120.1	4143.2
7.5°	3792.5	3826.5	3871.5	3854.2	3869.6
10°	3488.8	3524.7	3560.0	3549.2	3570.3
12.5°	3204.2	3224.7	3250.5	3248.6	3271.1
15°	2850.3	2877.9	2903.7	2882.5	2890.8
17.5°	2407.2	2418.1	2437.4	2416.2	2421.9
20°	1822.1	1852.3	1863.2	1838.8	1865.8
22.5°	1140.0	1212.6	1218.4	1205.5	1165.0
25°	487.5	664.1	685.3	655.8	479.8
27.5°	197.2	251.8	326.3	246.6	192.1
30°	111.8	121.4	142.0	119.5	113.7
32.5°	53.3	68.1	81.6	66.1	54.0
35°	28.2	35.3	48.8	34.6	27.6
37.5°	16.0	20.6	29.5	19.3	16.0
40°	9.6	12.2	17.3	11.6	9.0
42.5°	6.4	7.7	9.6	7.0	5.7
45°	4.5	4.5	5.7	4.5	3.9
47.5°	3.2	3.2	3.9	2.6	2.6
50°	2.6	2.6	2.6	1.9	1.9
52.5°	1.9	1.9	1.9	1.3	1.3
55°	1.3	1.3	1.3	1.3	0.6
57.5°	1.3	1.3	1.3	0.6	0.6
60°	1.3	1.3	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.0
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.6	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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