

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: P1219496

Luminaire Tested: **LDSQA4A15935D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219496
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: LDSQA4A15935D010TE 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

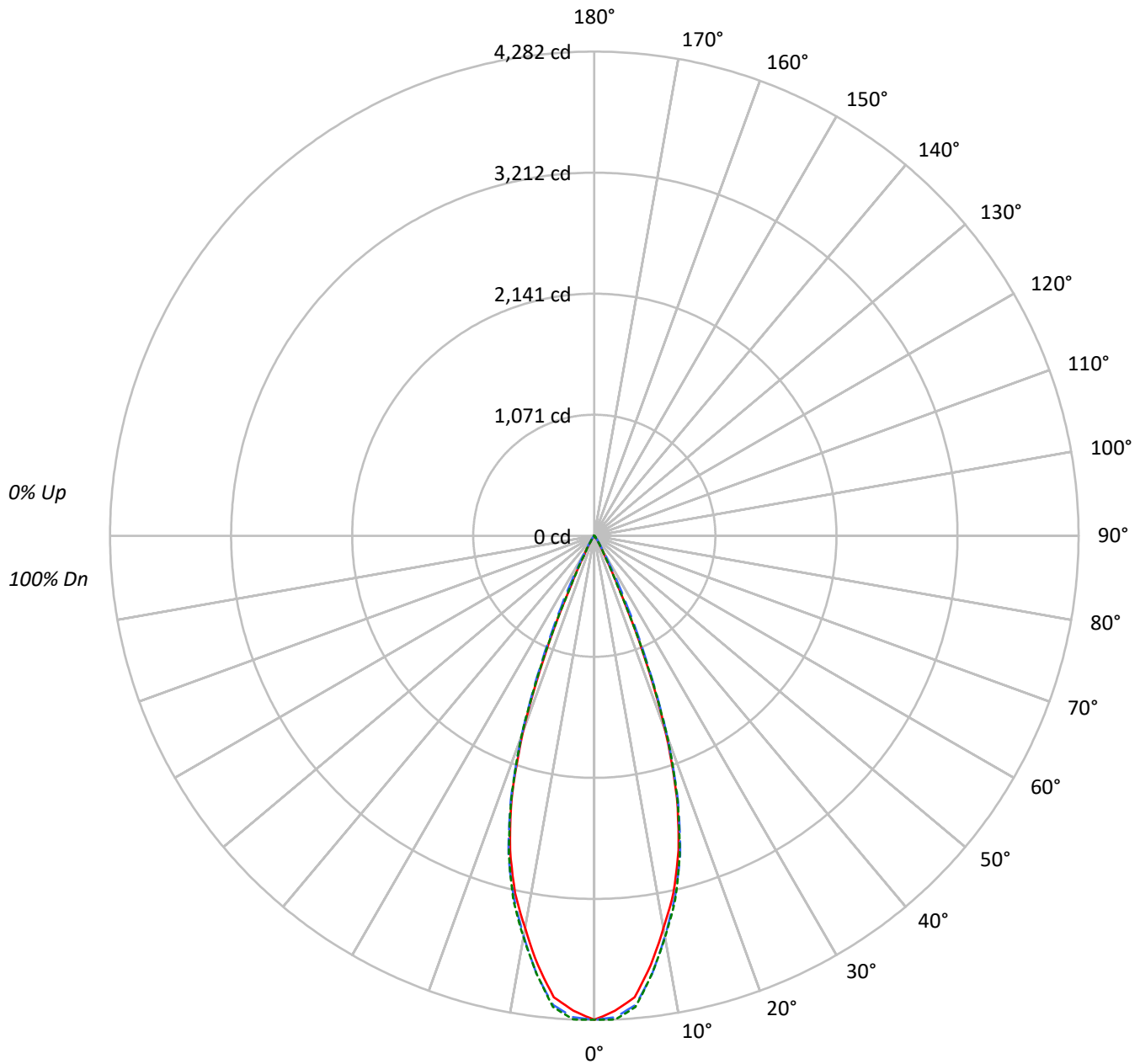
Lumens per Lamp: N/A
Luminaire Lumens: 1525.3 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	414656	414656	414656
5°	398454	405134	406768
10°	346478	353561	354584
15°	288613	294008	292705
20°	189639	193928	194196
25°	52601	73957	51778
30°	12629	16030	12831
35°	3370	5830	3300
40°	1227	2213	1151
45°	630	795	534
50°	392	392	301
55°	220	220	118
60°	252	136	136
65°	160	160	160
70°	198	198	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	24.7
10°-20°	779.9	51.1
20°-30°	333.1	21.8
30°-40°	29.4	1.9
40°-50°	4.4	0.3
50°-60°	1.3	0.1
60°-70°	0.7	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°	1489.2	97.6
0°-40°	1518.6	99.6
0°-60°	1524.2	99.9
0°-90°	1525.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4280	4280	4280	4280	4280	
5°	4097	4131	4166	4160	4183	371
15°	2878	2906	2932	2910	2918	772
25°	492	670	692	662	484	302
35°	28	36	49	35	28	24
45°	5	5	6	5	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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4280.3	4280.3	4280.3	4280.3	4280.3
2.5°	4205.0	4234.8	4261.5	4259.5	4281.6
5°	4097.4	4131.1	4166.1	4159.6	4182.9
7.5°	3828.9	3863.3	3908.7	3891.2	3906.7
10°	3522.2	3558.6	3594.2	3583.2	3604.6
12.5°	3234.9	3255.7	3281.7	3279.7	3302.4
15°	2877.7	2905.6	2931.5	2910.1	2918.5
17.5°	2430.3	2441.3	2460.7	2439.4	2445.2
20°	1839.5	1870.0	1881.1	1856.4	1883.7
22.5°	1151.0	1224.2	1230.1	1217.1	1176.2
25°	492.1	670.4	691.9	662.0	484.4
27.5°	199.1	254.1	329.4	249.0	193.8
30°	112.9	122.6	143.3	120.6	114.7
32.5°	53.9	68.7	82.4	66.8	54.4
35°	28.5	35.6	49.3	35.0	27.9
37.5°	16.2	20.8	29.8	19.4	16.2
40°	9.7	12.3	17.5	11.7	9.1
42.5°	6.4	7.8	9.7	7.1	5.8
45°	4.6	4.6	5.8	4.6	3.9
47.5°	3.3	3.3	3.9	2.6	2.6
50°	2.6	2.6	2.6	2.0	2.0
52.5°	2.0	2.0	2.0	1.3	1.3
55°	1.3	1.3	1.3	1.3	0.7
57.5°	1.3	1.3	1.3	0.7	0.7
60°	1.3	1.3	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.0
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.7	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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