

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: P1219540

Luminaire Tested: **LDSQA4A20950D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219540
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: LDSQA4A20950D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

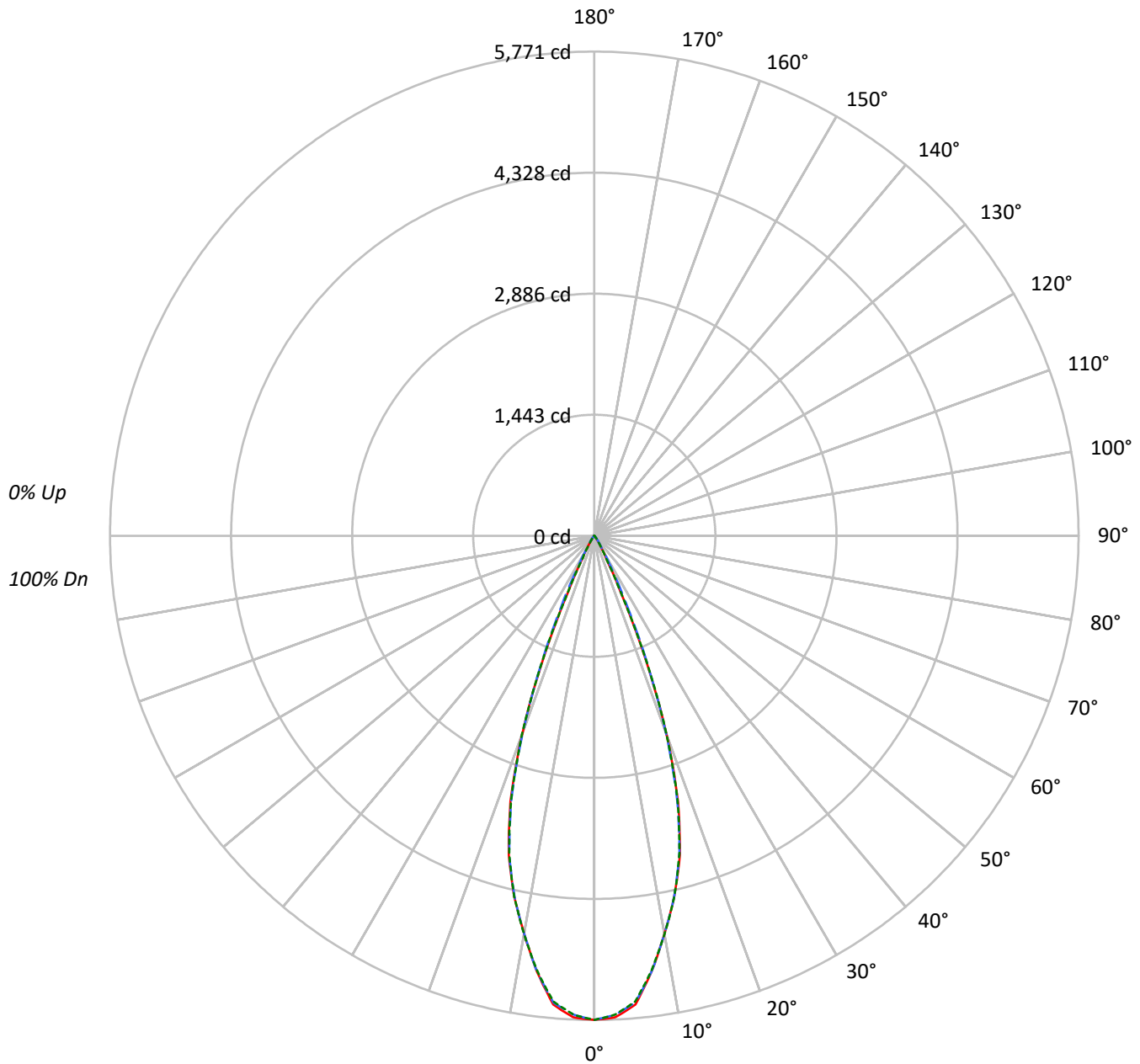
Lumens per Lamp: N/A
Luminaire Lumens: 2081.4 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	559068	559068	559068
5°	545537	543116	542105
10°	473730	473651	474212
15°	395154	393048	392867
20°	259185	257123	259402
25°	79259	100252	78949
30°	19833	23983	19408
35°	6422	9910	6315
40°	3010	4704	2656
45°	1562	1973	1165
50°	859	1025	573
55°	473	642	321
60°	368	368	368
65°	229	229	229
70°	283	283	283
75°	0	374	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.0	24.4
10°-20°	1050.5	50.5
20°-30°	458.7	22.0
30°-40°	50.1	2.4
40°-50°	10.4	0.5
50°-60°	2.8	0.1
60°-70°	1.2	0.1
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°	2016.2	96.9
0°-40°	2066.3	99.3
0°-60°	2079.5	99.9
0°-90°	2081.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5771	5771	5771	5771	5771	
5°	5610	5595	5585	5599	5575	508
15°	3940	3923	3919	3925	3917	1054
25°	742	914	938	923	739	429
35°	54	65	84	64	53	43
45°	11	12	14	10	8	9
55°	3	3	4	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	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°	5771.0	5771.0	5771.0	5771.0	5771.0
2.5°	5745.2	5724.2	5712.7	5737.5	5712.7
5°	5609.9	5594.6	5585.0	5599.4	5574.6
7.5°	5239.0	5223.8	5237.1	5237.1	5224.8
10°	4815.8	4807.3	4815.0	4835.0	4820.7
12.5°	4405.1	4398.5	4401.3	4422.3	4406.1
15°	3940.0	3922.9	3919.0	3924.8	3917.2
17.5°	3320.5	3294.8	3278.6	3292.0	3295.8
20°	2514.1	2514.1	2494.1	2505.7	2516.2
22.5°	1607.7	1645.1	1648.8	1646.9	1640.2
25°	741.5	914.0	937.9	922.6	738.6
27.5°	300.2	370.8	461.2	382.1	289.7
30°	177.3	186.8	214.4	184.0	173.5
32.5°	93.4	112.5	131.6	111.5	90.5
35°	54.3	64.8	83.8	63.9	53.4
37.5°	35.3	41.0	56.3	41.0	33.3
40°	23.8	26.7	37.2	25.7	21.0
42.5°	16.2	18.1	23.8	16.2	13.3
45°	11.4	12.5	14.4	10.5	8.5
47.5°	7.6	8.5	9.5	6.8	5.7
50°	5.7	5.7	6.8	4.8	3.8
52.5°	3.8	4.8	4.8	2.8	2.8
55°	2.8	2.8	3.8	1.9	1.9
57.5°	2.8	2.8	2.8	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.0	1.9	1.9	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.0	1.0	1.0	0.0	0.0
77.5°	0.0	1.0	1.0	1.0	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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