

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: P1212187

Luminaire Tested: **LDSQA4A20927D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212187
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: LDSQA4A20927D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

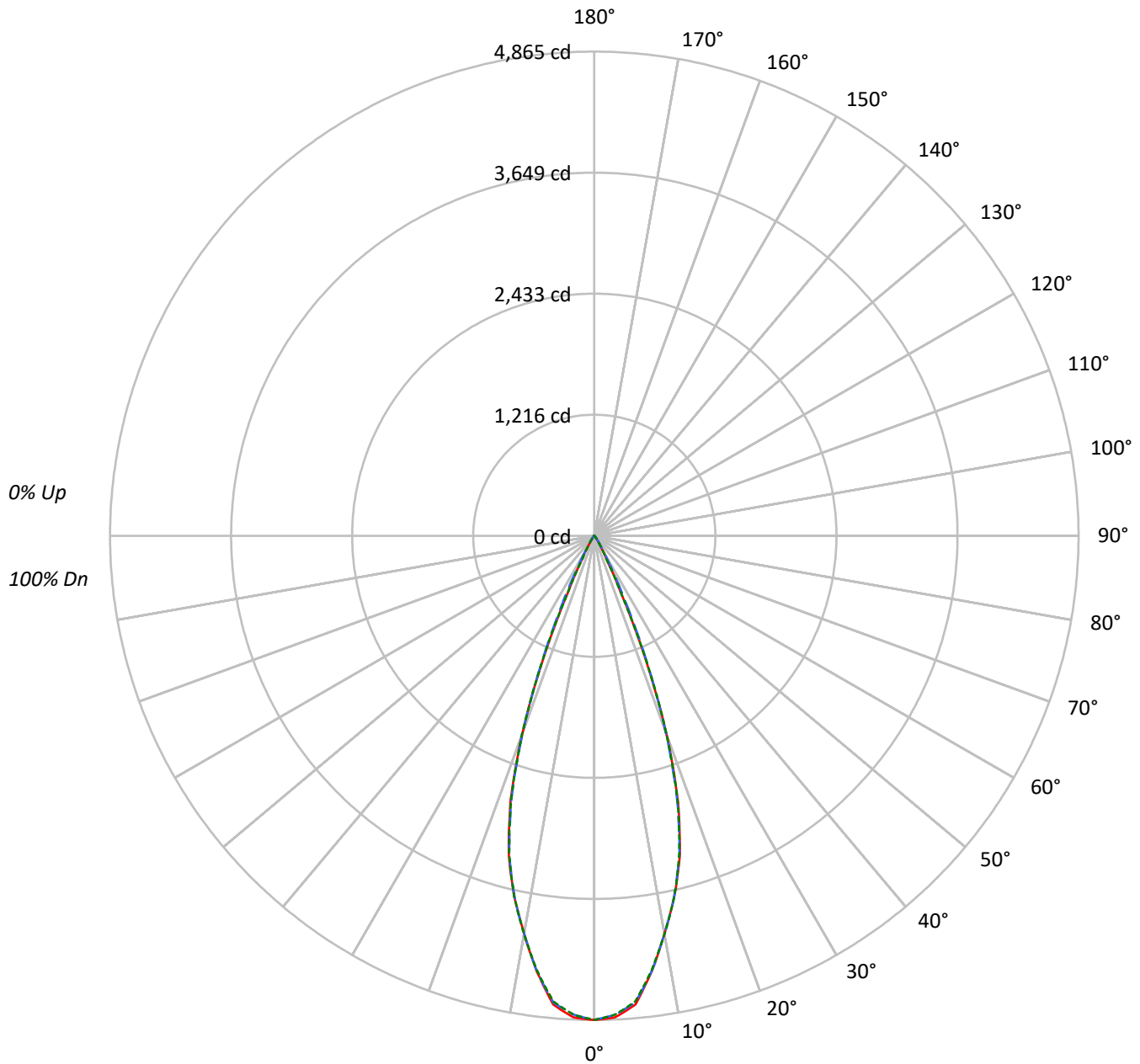
Lumens per Lamp: N/A
Luminaire Lumens: 1754.7 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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	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°	471309	471309	471309
5°	459903	457871	457005
10°	399392	399303	399775
15°	333143	331367	331197
20°	218515	216783	218680
25°	66817	84507	66561
30°	16712	20213	16354
35°	5416	8361	5322
40°	2542	3958	2238
45°	1329	1658	1000
50°	723	844	482
55°	405	540	270
60°	310	310	310
65°	183	183	183
70°	227	227	227
75°	0	299	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	24.4
10°-20°	885.6	50.5
20°-30°	386.7	22.0
30°-40°	42.2	2.4
40°-50°	8.7	0.5
50°-60°	2.4	0.1
60°-70°	1.0	0.1
70°-80°	0.6	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°	1699.8	96.9
0°-40°	1742.0	99.3
0°-60°	1753.1	99.9
0°-90°	1754.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4865	4865	4865	4865	4865	
5°	4729	4716	4708	4720	4700	428
15°	3322	3307	3304	3309	3302	889
25°	625	771	791	778	623	362
35°	46	55	71	54	45	36
45°	10	10	12	9	7	8
55°	2	2	3	2	2	2
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°	4865.1	4865.1	4865.1	4865.1	4865.1
2.5°	4843.4	4825.7	4816.2	4837.0	4816.2
5°	4729.3	4716.5	4708.4	4720.5	4699.5
7.5°	4416.8	4403.8	4415.2	4415.2	4404.7
10°	4060.1	4052.8	4059.2	4076.1	4064.0
12.5°	3713.8	3708.2	3710.5	3728.2	3714.6
15°	3321.7	3307.2	3304.0	3308.8	3302.3
17.5°	2799.4	2777.6	2764.0	2775.2	2778.5
20°	2119.6	2119.6	2102.8	2112.3	2121.2
22.5°	1355.5	1386.9	1390.1	1388.4	1382.8
25°	625.1	770.6	790.6	777.8	622.7
27.5°	253.1	312.6	388.9	322.2	244.3
30°	149.4	157.4	180.7	155.0	146.2
32.5°	78.7	94.9	110.9	94.0	76.3
35°	45.8	54.6	70.7	53.8	45.0
37.5°	29.8	34.6	47.4	34.6	28.1
40°	20.1	22.5	31.3	21.8	17.7
42.5°	13.6	15.3	20.1	13.6	11.2
45°	9.7	10.4	12.1	8.8	7.3
47.5°	6.5	7.3	8.0	5.6	4.8
50°	4.8	4.8	5.6	4.1	3.2
52.5°	3.2	4.1	4.1	2.4	2.4
55°	2.4	2.4	3.2	1.6	1.6
57.5°	2.4	2.4	2.4	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6
62.5°	0.8	1.6	1.6	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.8	0.8	0.0	0.0
77.5°	0.0	0.8	0.8	0.8	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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