

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: P1212229

Luminaire Tested: **LDSQA4A20940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212229
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: LDSQA4A20940D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

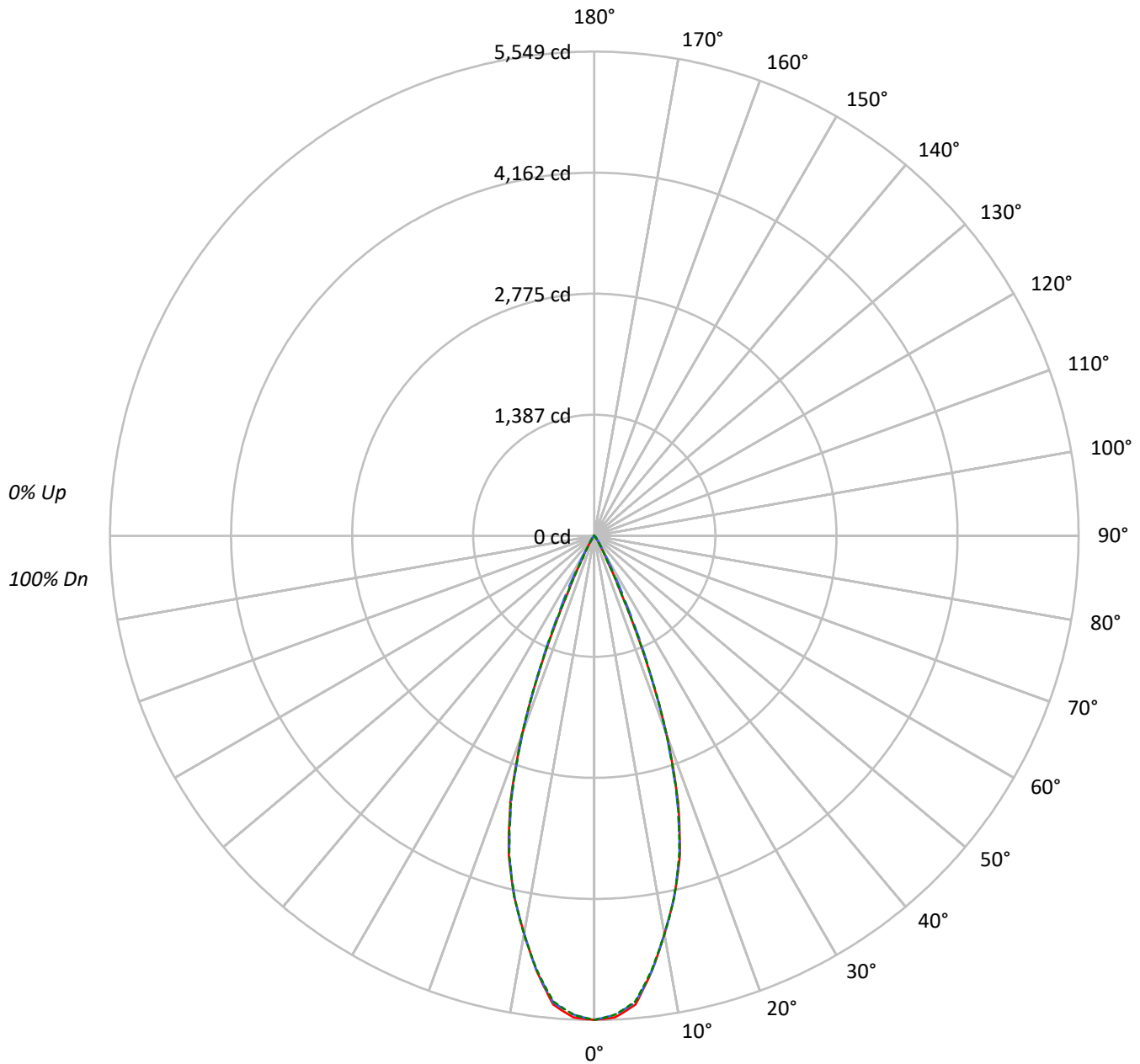
Lumens per Lamp: N/A
Luminaire Lumens: 2001.4 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	537562	537562	537562
5°	524552	522228	521255
10°	455512	455433	455974
15°	379959	377933	377753
20°	249216	247237	249422
25°	76213	96394	75913
30°	19072	23066	18659
35°	6173	9532	6067
40°	2896	4527	2555
45°	1507	1891	1123
50°	829	980	558
55°	456	625	304
60°	349	349	349
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°	487.5	24.4
10°-20°	1010.1	50.5
20°-30°	441.1	22.0
30°-40°	48.1	2.4
40°-50°	10.0	0.5
50°-60°	2.7	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°	1938.6	96.9
0°-40°	1986.8	99.3
0°-60°	1999.5	99.9
0°-90°	2001.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5549	5549	5549	5549	5549	
5°	5394	5379	5370	5384	5360	488
15°	3788	3772	3768	3774	3766	1013
25°	713	879	902	887	710	413
35°	52	62	81	61	51	41
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5549.0	5549.0	5549.0	5549.0	5549.0
2.5°	5524.2	5504.0	5493.0	5516.8	5493.0
5°	5394.1	5379.4	5370.2	5384.0	5360.2
7.5°	5037.5	5022.9	5035.7	5035.7	5023.8
10°	4630.6	4622.4	4629.8	4649.0	4635.3
12.5°	4235.7	4229.3	4232.0	4252.2	4236.6
15°	3788.5	3772.0	3768.3	3773.8	3766.5
17.5°	3192.8	3168.1	3152.5	3165.4	3169.0
20°	2417.4	2417.4	2398.2	2409.3	2419.4
22.5°	1545.9	1581.8	1585.4	1583.6	1577.1
25°	713.0	878.8	901.8	887.1	710.2
27.5°	288.7	356.5	443.5	367.4	278.6
30°	170.5	179.6	206.2	176.9	166.8
32.5°	89.8	108.2	126.5	107.2	87.0
35°	52.2	62.3	80.6	61.4	51.3
37.5°	33.9	39.4	54.1	39.4	32.0
40°	22.9	25.7	35.8	24.7	20.2
42.5°	15.6	17.4	22.9	15.6	12.8
45°	11.0	12.0	13.8	10.1	8.2
47.5°	7.3	8.2	9.1	6.5	5.5
50°	5.5	5.5	6.5	4.6	3.7
52.5°	3.7	4.6	4.6	2.7	2.7
55°	2.7	2.7	3.7	1.8	1.8
57.5°	2.7	2.7	2.7	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.0	1.8	1.8	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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