

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: P1212215

Luminaire Tested: **LDSQA4A20935D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212215
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: LDSQA4A20935D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

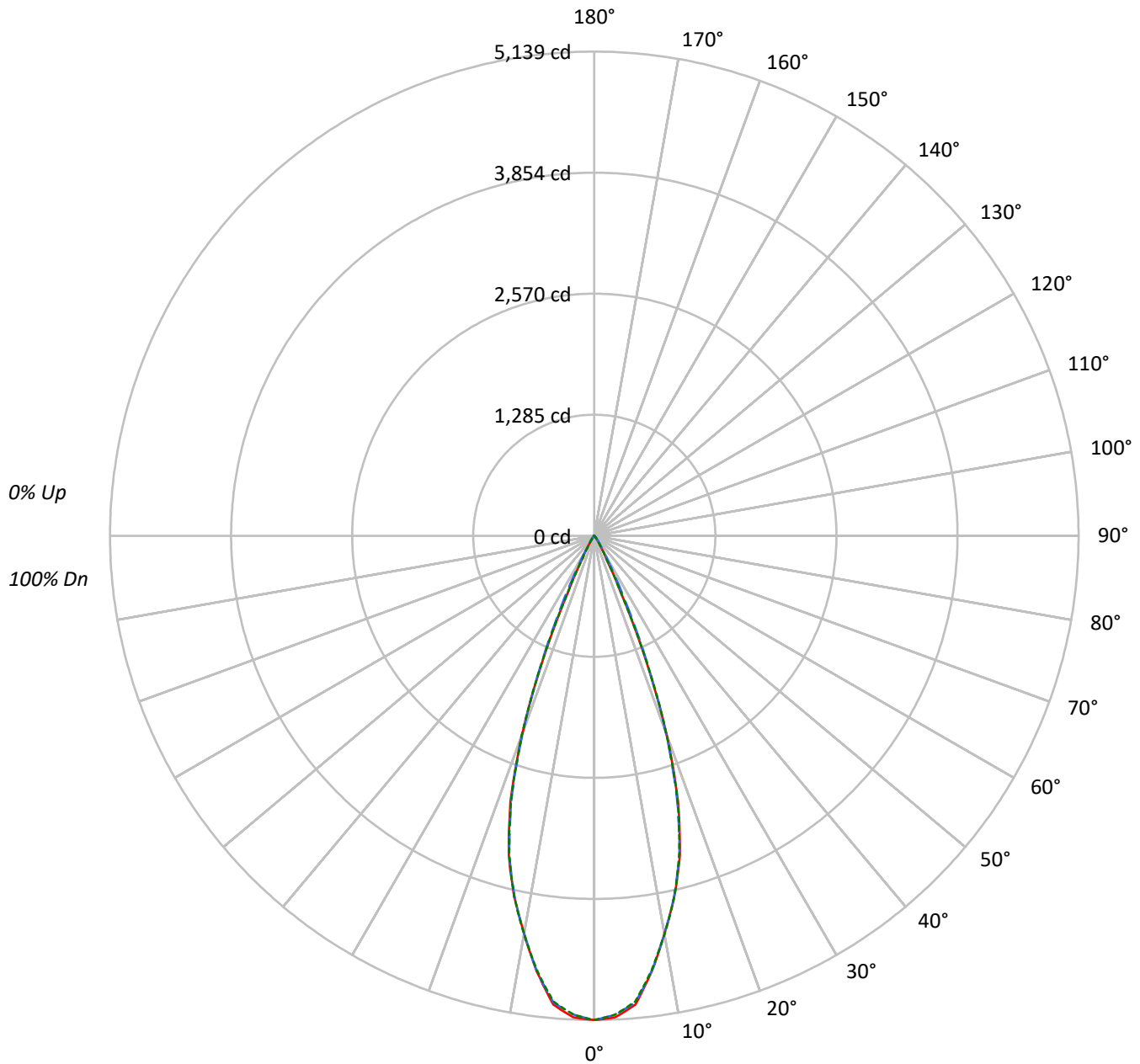
Lumens per Lamp: N/A
Luminaire Lumens: 1853.4 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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		86
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	74	71	77	73	71		76	73	70		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	497862	497862	497862
5°	485819	483670	482756
10°	421879	421800	422302
15°	351897	350022	349861
20°	230825	228979	230989
25°	70580	89264	70312
30°	17652	21366	17272
35°	5712	8822	5617
40°	2681	4173	2365
45°	1397	1740	1041
50°	769	889	512
55°	422	574	287
60°	329	329	329
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°	451.5	24.4
10°-20°	935.5	50.5
20°-30°	408.5	22.0
30°-40°	44.6	2.4
40°-50°	9.2	0.5
50°-60°	2.5	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°	1795.5	96.9
0°-40°	1840.1	99.3
0°-60°	1851.8	99.9
0°-90°	1853.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5139	5139	5139	5139	5139	
5°	4996	4982	4974	4986	4964	452
15°	3509	3493	3490	3495	3488	939
25°	660	814	835	822	658	382
35°	48	58	75	57	48	38
45°	10	11	13	9	8	8
55°	2	2	3	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°	5139.2	5139.2	5139.2	5139.2	5139.2
2.5°	5116.3	5097.6	5087.4	5109.4	5087.4
5°	4995.8	4982.2	4973.7	4986.4	4964.3
7.5°	4665.5	4652.0	4663.8	4663.8	4652.9
10°	4288.7	4281.0	4287.9	4305.7	4293.0
12.5°	3922.9	3917.0	3919.5	3938.2	3923.8
15°	3508.7	3493.4	3490.0	3495.1	3488.4
17.5°	2957.0	2934.2	2919.7	2931.5	2935.0
20°	2239.0	2239.0	2221.1	2231.4	2240.6
22.5°	1431.8	1465.0	1468.4	1466.6	1460.6
25°	660.3	813.9	835.1	821.6	657.8
27.5°	267.4	330.2	410.8	340.4	258.0
30°	157.8	166.4	191.0	163.8	154.4
32.5°	83.2	100.2	117.1	99.4	80.6
35°	48.3	57.8	74.6	56.9	47.5
37.5°	31.4	36.5	50.2	36.5	29.8
40°	21.2	23.8	33.0	22.9	18.7
42.5°	14.5	16.2	21.2	14.5	11.8
45°	10.2	11.0	12.7	9.4	7.6
47.5°	6.8	7.6	8.6	5.9	5.1
50°	5.1	5.1	5.9	4.2	3.4
52.5°	3.4	4.2	4.2	2.5	2.5
55°	2.5	2.5	3.4	1.7	1.7
57.5°	2.5	2.5	2.5	1.7	1.7
60°	1.7	1.7	1.7	1.7	1.7
62.5°	0.8	1.7	1.7	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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