

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: P1212285

Luminaire Tested: **LDSQA4A25940D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212285
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: LDSQA4A25940D010TE 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

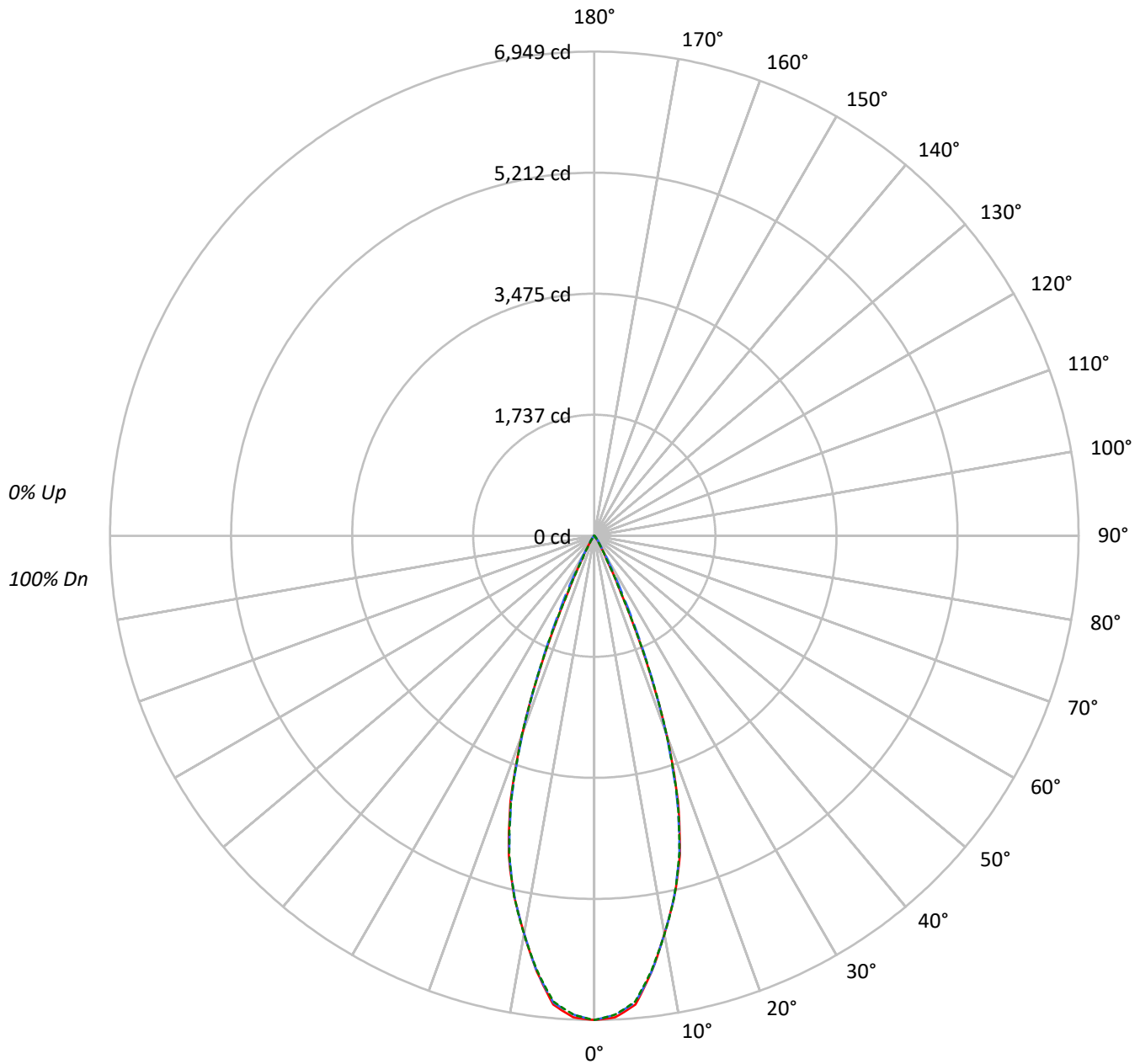
Lumens per Lamp: N/A
Luminaire Lumens: 2506.3 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	673226	673226	673226
5°	656942	654034	652799
10°	570486	570368	571047
15°	475859	473322	473091
20°	312134	309649	312361
25°	95453	120711	95079
30°	23883	28894	23368
35°	7734	11945	7604
40°	3629	5665	3199
45°	1891	2356	1425
50°	1040	1206	693
55°	574	777	388
60°	446	446	446
65°	252	252	252
70°	312	312	312
75°	0	412	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.5	24.4
10°-20°	1265.0	50.5
20°-30°	552.4	22.0
30°-40°	60.3	2.4
40°-50°	12.5	0.5
50°-60°	3.4	0.1
60°-70°	1.4	0.1
70°-80°	0.8	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°	2427.9	96.9
0°-40°	2488.2	99.3
0°-60°	2504.1	99.9
0°-90°	2506.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6949	6949	6949	6949	6949	
5°	6756	6737	6726	6743	6713	611
15°	4745	4724	4719	4726	4717	1269
25°	893	1101	1129	1111	890	517
35°	65	78	101	77	64	52
45°	14	15	17	13	10	11
55°	3	3	5	2	2	4
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°	6949.4	6949.4	6949.4	6949.4	6949.4
2.5°	6918.3	6893.2	6879.4	6909.2	6879.4
5°	6755.5	6737.1	6725.6	6742.8	6712.9
7.5°	6309.0	6290.6	6306.7	6306.7	6291.8
10°	5799.4	5789.0	5798.2	5822.3	5805.1
12.5°	5304.7	5296.7	5300.2	5325.4	5305.8
15°	4744.7	4723.9	4719.4	4726.3	4717.1
17.5°	3998.6	3967.7	3948.2	3964.2	3968.8
20°	3027.7	3027.7	3003.6	3017.4	3029.9
22.5°	1936.2	1980.9	1985.6	1983.2	1975.2
25°	893.0	1100.6	1129.3	1111.0	889.5
27.5°	361.6	446.4	555.5	460.2	348.9
30°	213.5	225.0	258.3	221.5	208.9
32.5°	112.5	135.4	158.4	134.3	109.1
35°	65.4	78.1	101.0	76.9	64.3
37.5°	42.5	49.3	67.7	49.3	40.1
40°	28.7	32.2	44.8	31.0	25.3
42.5°	19.5	21.8	28.7	19.5	16.1
45°	13.8	14.9	17.2	12.7	10.4
47.5°	9.2	10.4	11.5	8.0	6.9
50°	6.9	6.9	8.0	5.7	4.6
52.5°	4.6	5.7	5.7	3.4	3.4
55°	3.4	3.4	4.6	2.3	2.3
57.5°	3.4	3.4	3.4	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3
62.5°	1.1	2.3	2.3	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	1.1	0.0	0.0
77.5°	0.0	1.1	1.1	1.1	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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