

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: P1212313

Luminaire Tested: **LDSQA4A30930D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212313
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: LDSQA4A30930D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

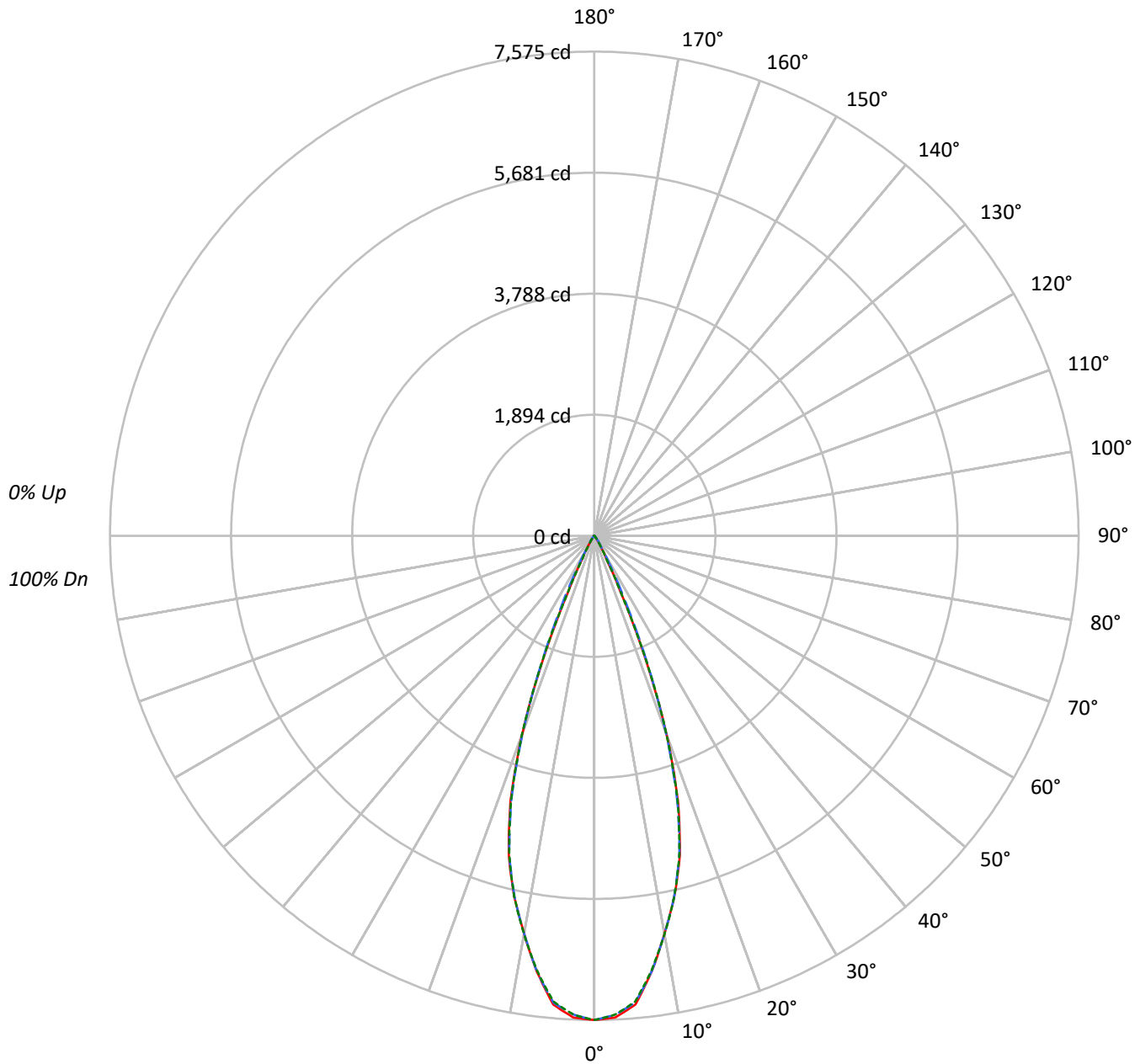
Lumens per Lamp: N/A
Luminaire Lumens: 2732.1 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



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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°	733870	733870	733870
5°	716116	712945	711613
10°	621875	621747	622494
15°	518714	515966	515716
20°	340247	337546	340505
25°	104047	131593	103651
30°	26030	31489	25471
35°	8432	13021	8290
40°	3958	6171	3490
45°	2055	2576	1548
50°	1130	1326	754
55°	625	844	422
60°	484	484	484
65°	275	275	275
70°	340	340	340
75°	0	449	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.5	24.4
10°-20°	1379.0	50.5
20°-30°	602.2	22.0
30°-40°	65.7	2.4
40°-50°	13.6	0.5
50°-60°	3.7	0.1
60°-70°	1.5	0.1
70°-80°	0.9	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°	2646.7	96.9
0°-40°	2712.4	99.3
0°-60°	2729.7	99.9
0°-90°	2732.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2732.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7575	7575	7575	7575	7575	
5°	7364	7344	7331	7350	7318	667
15°	5172	5150	5145	5152	5142	1384
25°	973	1200	1231	1211	970	563
35°	71	85	110	84	70	56
45°	15	16	19	14	11	12
55°	4	4	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°	7575.4	7575.4	7575.4	7575.4	7575.4
2.5°	7541.6	7514.2	7499.1	7531.7	7499.1
5°	7364.0	7344.0	7331.4	7350.2	7317.7
7.5°	6877.3	6857.3	6874.8	6874.8	6858.5
10°	6321.8	6310.6	6320.5	6346.9	6328.1
12.5°	5782.5	5773.8	5777.6	5805.1	5783.8
15°	5172.0	5149.5	5144.6	5152.0	5142.1
17.5°	4358.9	4325.1	4303.8	4321.3	4326.3
20°	3300.4	3300.4	3274.2	3289.1	3302.9
22.5°	2110.6	2159.4	2164.4	2161.9	2153.1
25°	973.4	1199.8	1231.1	1211.0	969.7
27.5°	394.1	486.7	605.6	501.7	380.4
30°	232.7	245.2	281.5	241.5	227.7
32.5°	122.6	147.6	172.7	146.3	118.9
35°	71.3	85.1	110.1	83.8	70.1
37.5°	46.3	53.8	73.8	53.8	43.8
40°	31.3	35.0	48.8	33.8	27.6
42.5°	21.2	23.7	31.3	21.2	17.5
45°	15.0	16.3	18.8	13.8	11.3
47.5°	10.1	11.3	12.5	8.8	7.5
50°	7.5	7.5	8.8	6.2	5.0
52.5°	5.0	6.2	6.2	3.7	3.7
55°	3.7	3.7	5.0	2.5	2.5
57.5°	3.7	3.7	3.7	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5
62.5°	1.2	2.5	2.5	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.0	1.2	1.2	0.0	0.0
77.5°	0.0	1.2	1.2	1.2	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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