

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: P1219484

Luminaire Tested: **LDSQA4A15930D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219484
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: LDSQA4A15930D010TE 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

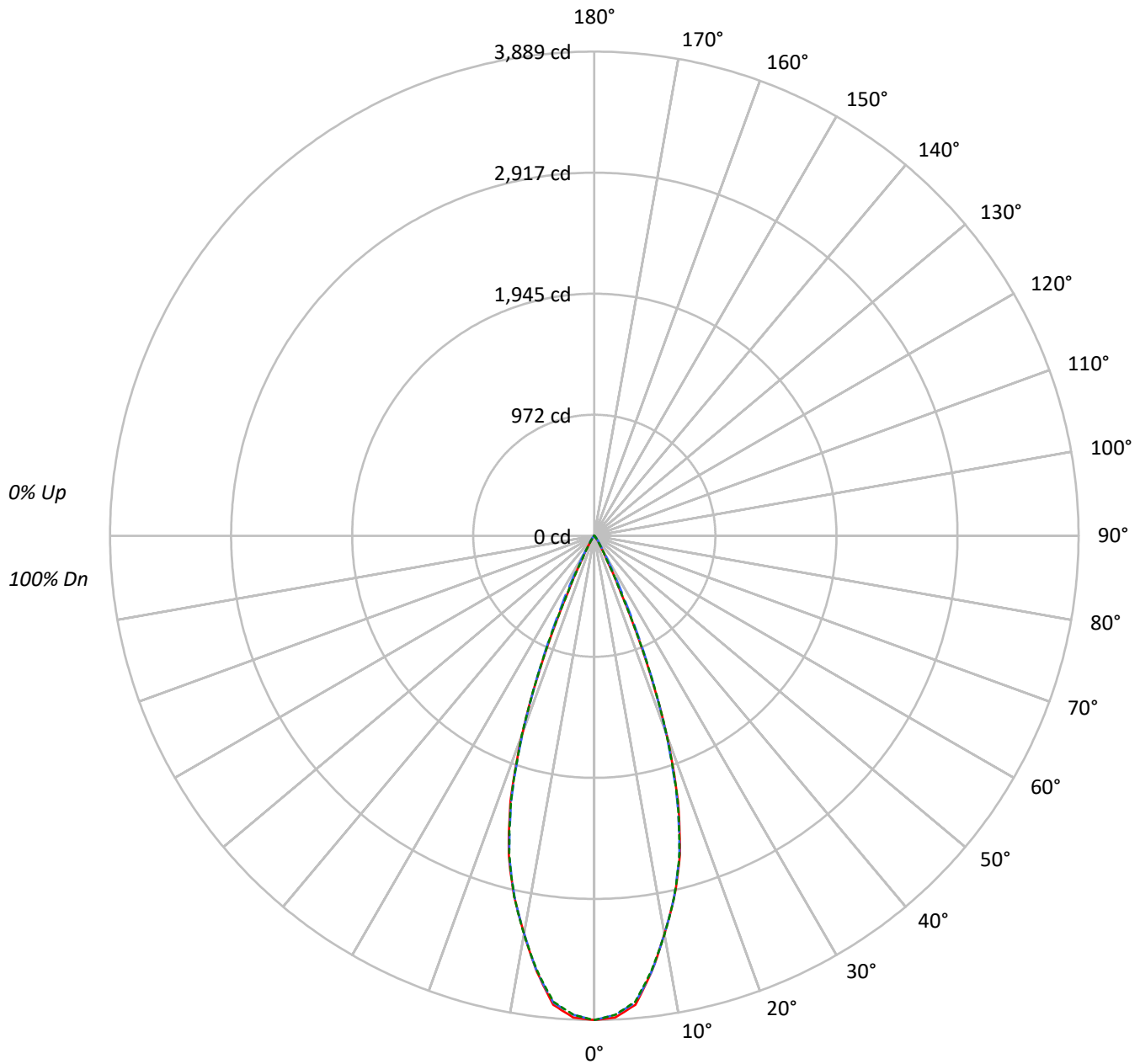
Lumens per Lamp: N/A
Luminaire Lumens: 1402.7 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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°	376787	376787	376787
5°	367675	366051	365361
10°	319289	319220	319604
15°	266328	264903	264773
20°	174691	173299	174825
25°	53424	67565	53210
30°	13368	16164	13077
35°	4328	6682	4246
40°	2023	3162	1796
45°	1055	1315	781
50°	588	678	392
55°	321	439	220
60°	252	252	252
65°	138	138	138
70°	170	170	170
75°	0	225	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	24.4
10°-20°	708.0	50.5
20°-30°	309.2	22.0
30°-40°	33.7	2.4
40°-50°	7.0	0.5
50°-60°	1.9	0.1
60°-70°	0.8	0.1
70°-80°	0.4	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°	1358.9	96.9
0°-40°	1392.6	99.3
0°-60°	1401.5	99.9
0°-90°	1402.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3889	3889	3889	3889	3889	
5°	3781	3771	3764	3774	3757	342
15°	2656	2644	2641	2645	2640	710
25°	500	616	632	622	498	289
35°	37	44	56	43	36	29
45°	8	8	10	7	6	6
55°	2	2	3	1	1	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3889.4	3889.4	3889.4	3889.4	3889.4
2.5°	3872.1	3857.9	3850.2	3866.9	3850.2
5°	3780.9	3770.6	3764.2	3773.8	3757.1
7.5°	3531.0	3520.7	3529.7	3529.7	3521.3
10°	3245.8	3240.0	3245.1	3258.7	3249.0
12.5°	2968.9	2964.5	2966.3	2980.5	2969.6
15°	2655.5	2643.9	2641.3	2645.2	2640.0
17.5°	2238.0	2220.6	2209.7	2218.7	2221.3
20°	1694.5	1694.5	1681.0	1688.7	1695.8
22.5°	1083.7	1108.7	1111.3	1110.0	1105.5
25°	499.8	616.0	632.1	621.8	497.8
27.5°	202.4	249.9	310.9	257.6	195.2
30°	119.5	125.9	144.5	123.9	116.9
32.5°	63.0	75.8	88.6	75.1	61.0
35°	36.6	43.7	56.5	43.1	35.9
37.5°	23.8	27.6	37.9	27.6	22.5
40°	16.0	18.0	25.0	17.3	14.2
42.5°	10.9	12.2	16.0	10.9	9.0
45°	7.7	8.3	9.6	7.0	5.7
47.5°	5.1	5.7	6.4	4.5	3.9
50°	3.9	3.9	4.5	3.2	2.6
52.5°	2.6	3.2	3.2	1.9	1.9
55°	1.9	1.9	2.6	1.3	1.3
57.5°	1.9	1.9	1.9	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3
62.5°	0.6	1.3	1.3	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.6	0.6	0.0	0.0
77.5°	0.0	0.6	0.6	0.6	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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Scaled Data Report



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