

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: P1212309

Luminaire Tested: **LDSQA4A30930D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30930D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

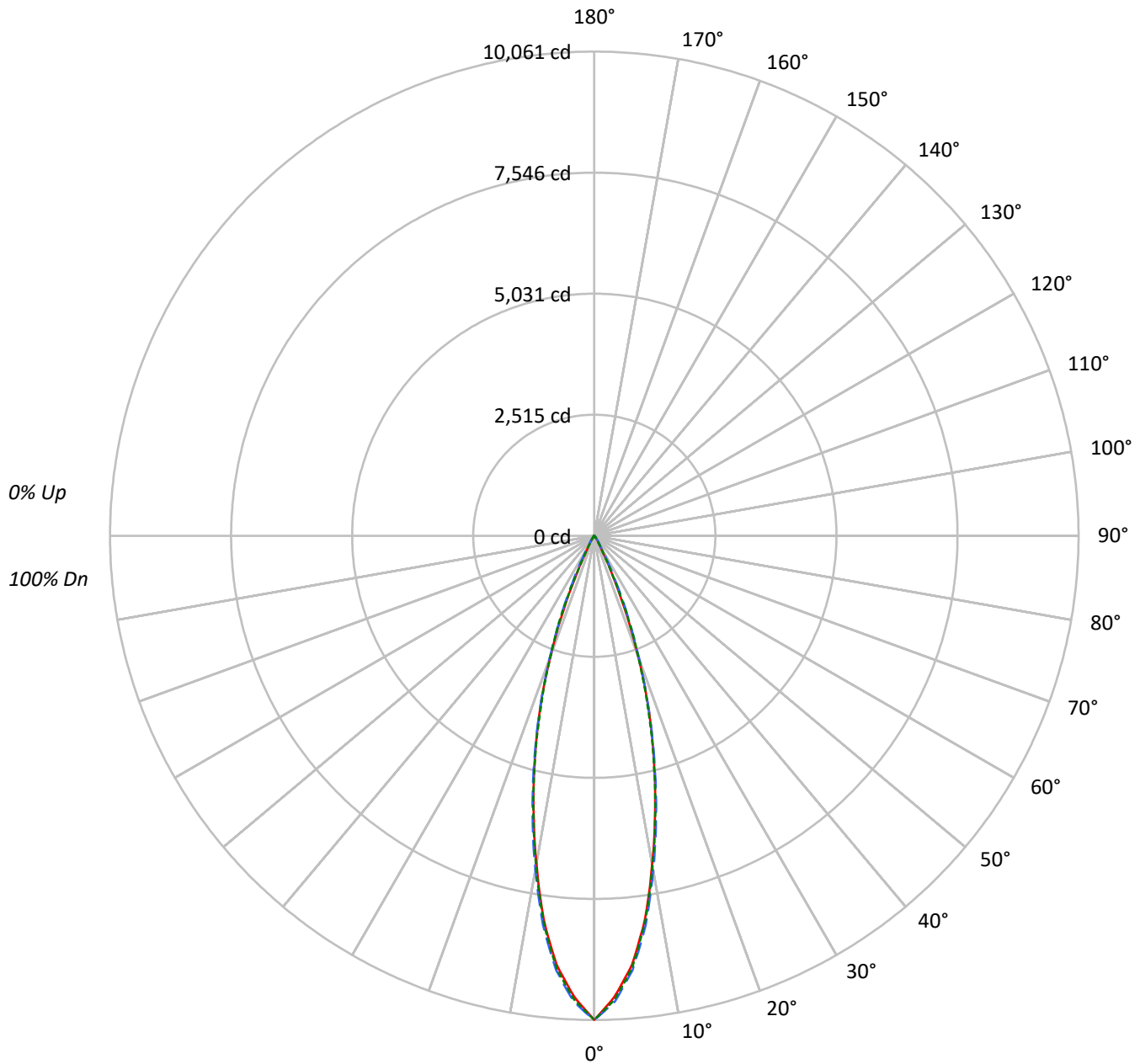
Lumens per Lamp: N/A
Luminaire Lumens: 2683.3 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	101	103	100	99		100	98	96		97
3	107	103	99	96	106	101	98	95	99	96	94		97	94	92		95
4	104	99	95	91	102	97	94	91	95	92	90		94	91	89		92
5	101	95	91	87	99	94	90	87	92	89	86		91	88	86		89
6	98	91	87	84	97	91	87	84	89	86	83		88	85	83		87
7	95	88	84	81	94	88	84	81	87	83	80		85	82	80		85
8	92	85	81	78	91	85	81	78	84	80	78		83	80	77		82
9	89	83	78	76	89	82	78	76	81	78	75		81	77	75		80
10	87	80	76	73	86	80	76	73	79	76	73		78	75	73		78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	974625	974625	974625
5°	870425	881375	875900
10°	681349	693537	685048
15°	478457	481977	475829
20°	274608	280288	274361
25°	86934	114351	89734
30°	23100	28693	22249
35°	7841	14203	7995
40°	3490	5703	3490
45°	1891	2576	1548
50°	1130	1326	754
55°	625	625	422
60°	484	484	233
65°	275	275	275
70°	340	340	340
75°	0	449	449
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.0	29.7
10°-20°	1301.1	48.5
20°-30°	503.9	18.8
30°-40°	61.8	2.3
40°-50°	13.0	0.5
50°-60°	3.5	0.1
60°-70°	1.3	0.0
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°	2603.0	97.0
0°-40°	2664.8	99.3
0°-60°	2681.3	99.9
0°-90°	2683.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10061	10061	10061	10061	10061	
5°	8951	9081	9063	9008	9007	791
15°	4771	4834	4806	4771	4744	1294
25°	813	1018	1070	1051	840	456
35°	66	80	120	79	68	51
45°	14	15	19	14	11	11
55°	4	4	4	2	2	4
65°	1	1	1	1	1	1
75°	0	1	1	1	1	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°	10060.6	10060.6	10060.6	10060.6	10060.6
2.5°	9590.2	9724.0	9692.7	9630.2	9646.5
5°	8950.8	9080.9	9063.4	9008.4	9007.1
7.5°	8048.8	8176.3	8161.3	8095.0	8088.8
10°	6926.4	7042.7	7050.3	6953.9	6964.0
12.5°	5830.5	5925.5	5929.2	5862.9	5849.2
15°	4770.6	4834.5	4805.7	4770.6	4744.4
17.5°	3725.9	3739.7	3733.4	3682.2	3663.3
20°	2663.7	2723.8	2718.8	2674.9	2661.3
22.5°	1659.1	1767.9	1817.9	1777.9	1799.2
25°	813.3	1018.5	1069.8	1051.0	839.5
27.5°	330.3	431.7	538.0	425.4	319.0
30°	206.5	225.2	256.5	216.4	198.9
32.5°	108.8	136.4	173.9	132.7	108.8
35°	66.3	80.1	120.1	78.9	67.6
37.5°	42.5	50.1	70.1	50.1	43.8
40°	27.6	32.5	45.1	32.5	27.6
42.5°	18.8	21.2	28.8	21.2	17.5
45°	13.8	15.0	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	3.7	2.5	2.5
57.5°	3.7	2.5	2.5	2.5	2.5
60°	2.5	2.5	2.5	1.2	1.2
62.5°	1.2	1.2	1.2	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	0.0
75°	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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