

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: P1212323

Luminaire Tested: **LDSQA4A30935D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212323
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: LDSQA4A30935D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

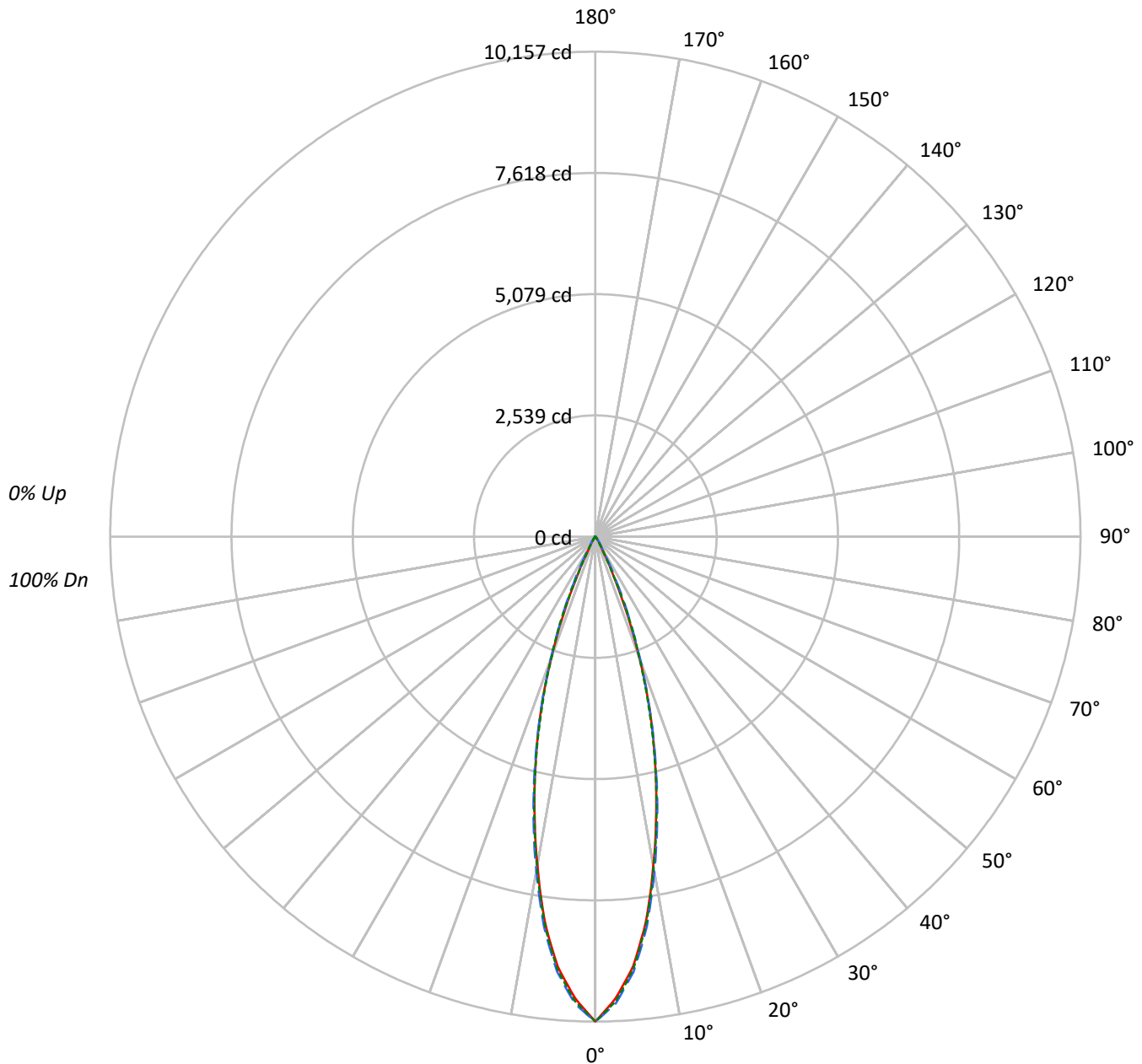
Lumens per Lamp: N/A
Luminaire Lumens: 2709.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96		
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93		
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90		
4	104	99	95	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87		
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84		
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81		
7	95	88	84	81	94	88	84	81	87	83	80	85	82	80	85	82	80	79		
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76		
9	89	83	78	76	89	82	78	76	81	78	75	81	77	75	80	77	75	74		
10	87	80	76	73	86	80	76	73	79	76	73	78	75	73	78	75	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	983973	983973	983973
5°	878778	889835	884311
10°	687891	700197	691609
15°	483050	486601	480403
20°	277247	282979	276989
25°	87768	115452	90600
30°	23312	28972	22462
35°	7912	14333	8077
40°	3516	5741	3516
45°	1904	2603	1562
50°	1145	1326	769
55°	642	642	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°	805.6	29.7
10°-20°	1313.6	48.5
20°-30°	508.8	18.8
30°-40°	62.4	2.3
40°-50°	13.1	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°	2628.0	97.0
0°-40°	2690.4	99.3
0°-60°	2707.0	99.9
0°-90°	2709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10157	10157	10157	10157	10157	
5°	9037	9168	9150	9095	9094	798
15°	4816	4881	4852	4816	4790	1306
25°	821	1028	1080	1061	848	460
35°	67	81	121	80	68	51
45°	14	15	19	14	11	12
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°	10157.1	10157.1	10157.1	10157.1	10157.1
2.5°	9682.2	9817.3	9785.7	9722.6	9739.0
5°	9036.7	9168.0	9150.4	9094.8	9093.6
7.5°	8125.9	8254.8	8239.6	8172.7	8166.4
10°	6992.9	7110.3	7118.0	7020.7	7030.7
12.5°	5886.4	5982.3	5986.2	5919.2	5905.3
15°	4816.4	4880.9	4851.8	4816.4	4790.0
17.5°	3761.7	3775.6	3769.2	3717.5	3698.5
20°	2689.3	2749.9	2744.9	2700.7	2686.8
22.5°	1675.0	1784.8	1835.3	1795.0	1816.5
25°	821.1	1028.2	1080.1	1061.1	847.6
27.5°	333.5	435.8	543.2	429.5	322.2
30°	208.4	227.4	259.0	218.5	200.8
32.5°	109.9	137.6	175.6	133.9	109.9
35°	66.9	80.8	121.2	79.6	68.3
37.5°	42.9	50.5	70.7	50.5	44.2
40°	27.8	32.9	45.4	32.9	27.8
42.5°	19.0	21.5	29.0	21.5	17.6
45°	13.9	15.1	19.0	13.9	11.4
47.5°	10.1	11.4	12.7	8.8	7.6
50°	7.6	7.6	8.8	6.3	5.1
52.5°	5.1	6.3	6.3	3.8	3.8
55°	3.8	3.8	3.8	2.5	2.5
57.5°	3.8	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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