

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: P1212253

Luminaire Tested: **LDSQA4A25930D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212253
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: LDSQA4A25930D010TE 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

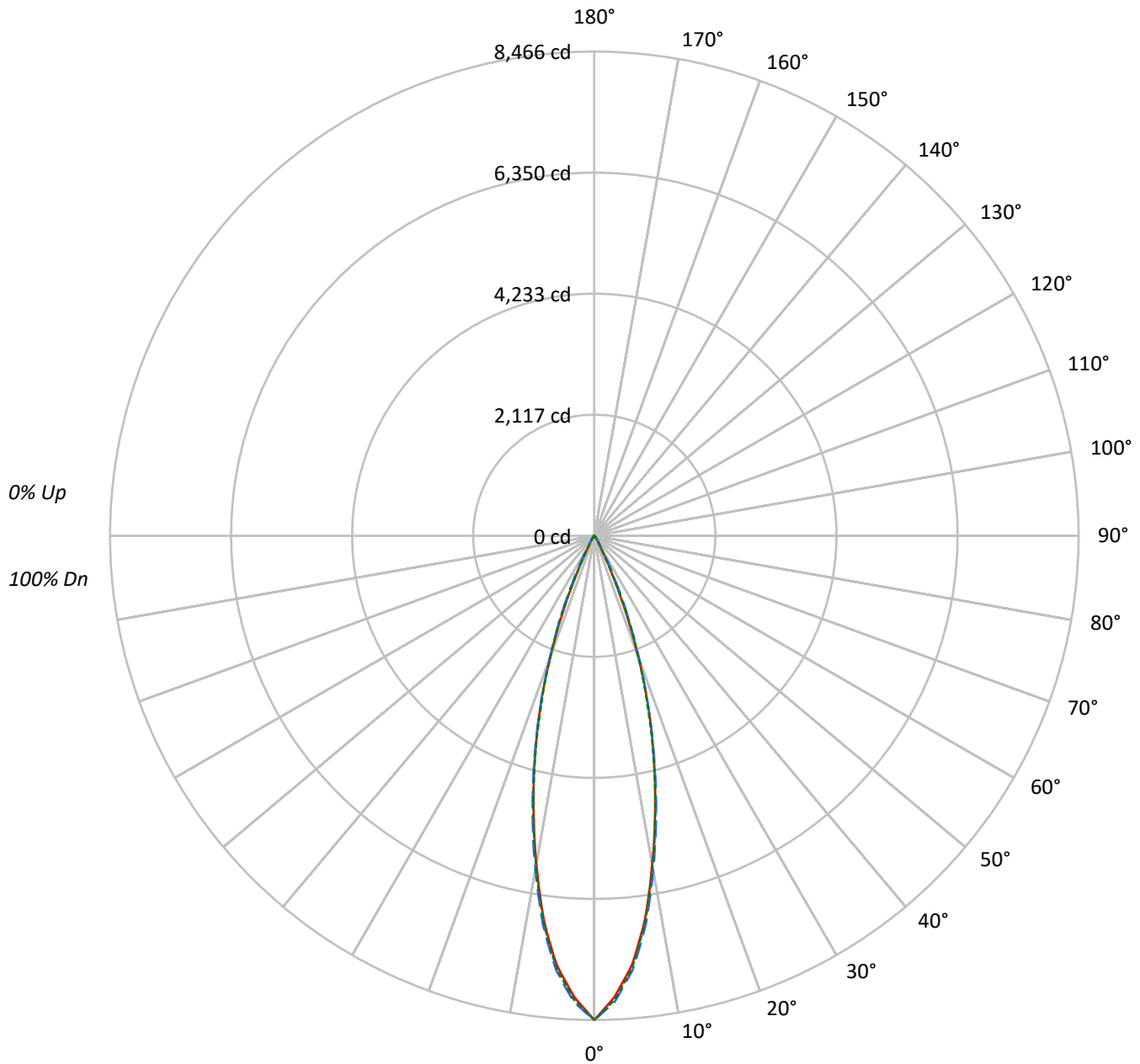
Lumens per Lamp: N/A
Luminaire Lumens: 2258.2 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	96	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°	820196	820196	820196
5°	732511	741720	737111
10°	573398	583638	576497
15°	402646	405604	400429
20°	231103	235876	230886
25°	73156	96233	75518
30°	19430	24151	18726
35°	6599	11956	6717
40°	2934	4806	2934
45°	1589	2165	1302
50°	949	1115	633
55°	524	524	355
60°	407	407	213
65°	252	252	252
70°	312	312	312
75°	0	412	412
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.5	29.7
10°-20°	1094.9	48.5
20°-30°	424.1	18.8
30°-40°	52.0	2.3
40°-50°	10.9	0.5
50°-60°	2.9	0.1
60°-70°	1.2	0.1
70°-80°	0.6	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°	2190.6	97.0
0°-40°	2242.6	99.3
0°-60°	2256.4	99.9
0°-90°	2258.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8466	8466	8466	8466	8466	
5°	7533	7642	7627	7581	7580	666
15°	4015	4068	4044	4015	3993	1089
25°	684	857	900	884	706	384
35°	56	67	101	66	57	43
45°	12	13	16	12	10	10
55°	3	3	3	2	2	3
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°	8466.5	8466.5	8466.5	8466.5	8466.5
2.5°	8070.6	8183.2	8156.9	8104.3	8118.0
5°	7532.6	7642.0	7627.3	7581.0	7579.9
7.5°	6773.4	6880.8	6868.1	6812.3	6807.1
10°	5829.0	5926.8	5933.1	5852.1	5860.5
12.5°	4906.6	4986.6	4989.7	4933.9	4922.4
15°	4014.7	4068.4	4044.2	4014.7	3992.6
17.5°	3135.6	3147.1	3141.9	3098.7	3082.9
20°	2241.7	2292.1	2288.0	2251.1	2239.6
22.5°	1396.2	1487.8	1529.9	1496.2	1514.1
25°	684.4	857.1	900.3	884.5	706.5
27.5°	278.0	363.3	452.7	358.0	268.5
30°	173.7	189.5	215.9	182.1	167.4
32.5°	91.6	114.8	146.4	111.6	91.6
35°	55.8	67.4	101.1	66.4	56.8
37.5°	35.8	42.1	59.0	42.1	36.9
40°	23.2	27.4	38.0	27.4	23.2
42.5°	15.8	17.9	24.2	17.9	14.7
45°	11.6	12.7	15.8	11.6	9.5
47.5°	8.4	9.5	10.6	7.4	6.3
50°	6.3	6.3	7.4	5.2	4.2
52.5°	4.2	5.2	5.2	3.1	3.1
55°	3.1	3.1	3.1	2.1	2.1
57.5°	3.1	2.1	2.1	2.1	2.1
60°	2.1	2.1	2.1	1.1	1.1
62.5°	1.1	1.1	1.1	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	0.0
75°	0.0	1.1	1.1	1.1	1.1
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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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