

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: P1219476

Luminaire Tested: **LDSQA4A15930D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15930D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

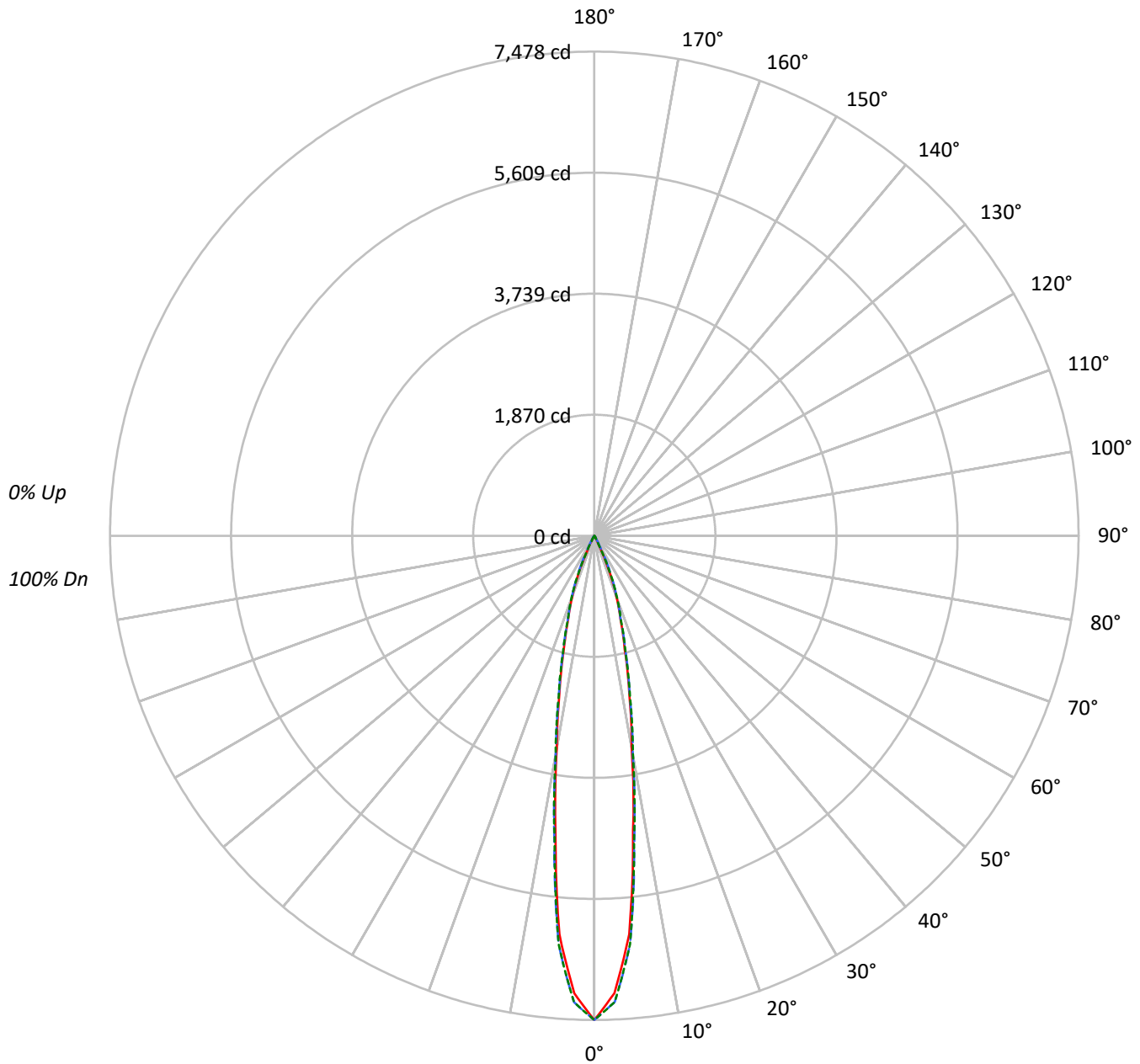
Lumens per Lamp: N/A
Luminaire Lumens: 1247.9 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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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	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91		
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89		
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86		
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82		
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80		
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78		
10	90	84	80	78	89	84	80	78	83	80	77	82	79	77	82	79	77	76		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	724464	724464	724464
5°	600919	616478	615603
10°	327444	337114	338815
15°	182062	187277	188240
20°	102639	105557	106876
25°	30902	45525	30763
30°	5828	8334	5828
35°	2507	3879	2590
40°	1214	2023	1214
45°	781	1055	617
50°	482	588	286
55°	321	321	220
60°	252	116	116
65°	138	138	138
70°	0	170	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.9	39.9
10°-20°	530.7	42.5
20°-30°	193.6	15.5
30°-40°	18.5	1.5
40°-50°	5.1	0.4
50°-60°	1.5	0.1
60°-70°	0.6	0.0
70°-80°	0.1	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°	1222.2	97.9
0°-40°	1240.6	99.4
0°-60°	1247.2	99.9
0°-90°	1247.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7478	7478	7478	7478	7478	
5°	6179	6336	6339	6273	6330	488
15°	1815	1858	1867	1864	1877	519
25°	289	418	426	422	288	167
35°	21	26	33	26	22	15
45°	6	6	8	6	4	5
55°	2	2	2	1	1	2
65°	1	1	1	1	1	1
75°	0	1	0	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°	7478.3	7478.3	7478.3	7478.3	7478.3
2.5°	7070.4	7219.4	7208.5	7175.0	7208.5
5°	6179.4	6335.5	6339.4	6273.2	6330.4
7.5°	4593.4	4714.2	4735.4	4670.5	4713.6
10°	3328.7	3436.6	3427.0	3414.1	3444.3
12.5°	2486.6	2541.1	2535.4	2549.4	2551.4
15°	1815.3	1858.3	1867.3	1863.5	1876.9
17.5°	1336.7	1359.9	1355.3	1362.4	1367.6
20°	995.6	1032.3	1023.9	1030.3	1036.7
22.5°	660.3	727.7	719.4	729.7	723.9
25°	289.1	418.2	425.9	422.0	287.8
27.5°	88.6	149.7	192.1	146.4	88.6
30°	52.1	62.3	74.5	61.0	52.1
32.5°	32.8	39.2	46.9	38.5	32.1
35°	21.2	25.7	32.8	25.7	21.9
37.5°	14.2	17.3	23.2	17.3	14.8
40°	9.6	11.6	16.0	12.2	9.6
42.5°	7.0	8.3	10.9	8.3	6.4
45°	5.7	5.7	7.7	5.7	4.5
47.5°	4.5	4.5	5.1	3.9	3.2
50°	3.2	3.2	3.9	2.6	1.9
52.5°	1.9	2.6	2.6	1.9	1.3
55°	1.9	1.9	1.9	1.3	1.3
57.5°	1.3	1.3	1.3	0.6	0.6
60°	1.3	1.3	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	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°	0.0	0.6	0.6	0.0	0.0
72.5°	0.0	0.6	0.0	0.0	0.0
75°	0.0	0.6	0.0	0.0	0.0
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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