

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: P1212347

Luminaire Tested: **LDSQA4A35927D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212347
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: LDSQA4A35927D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

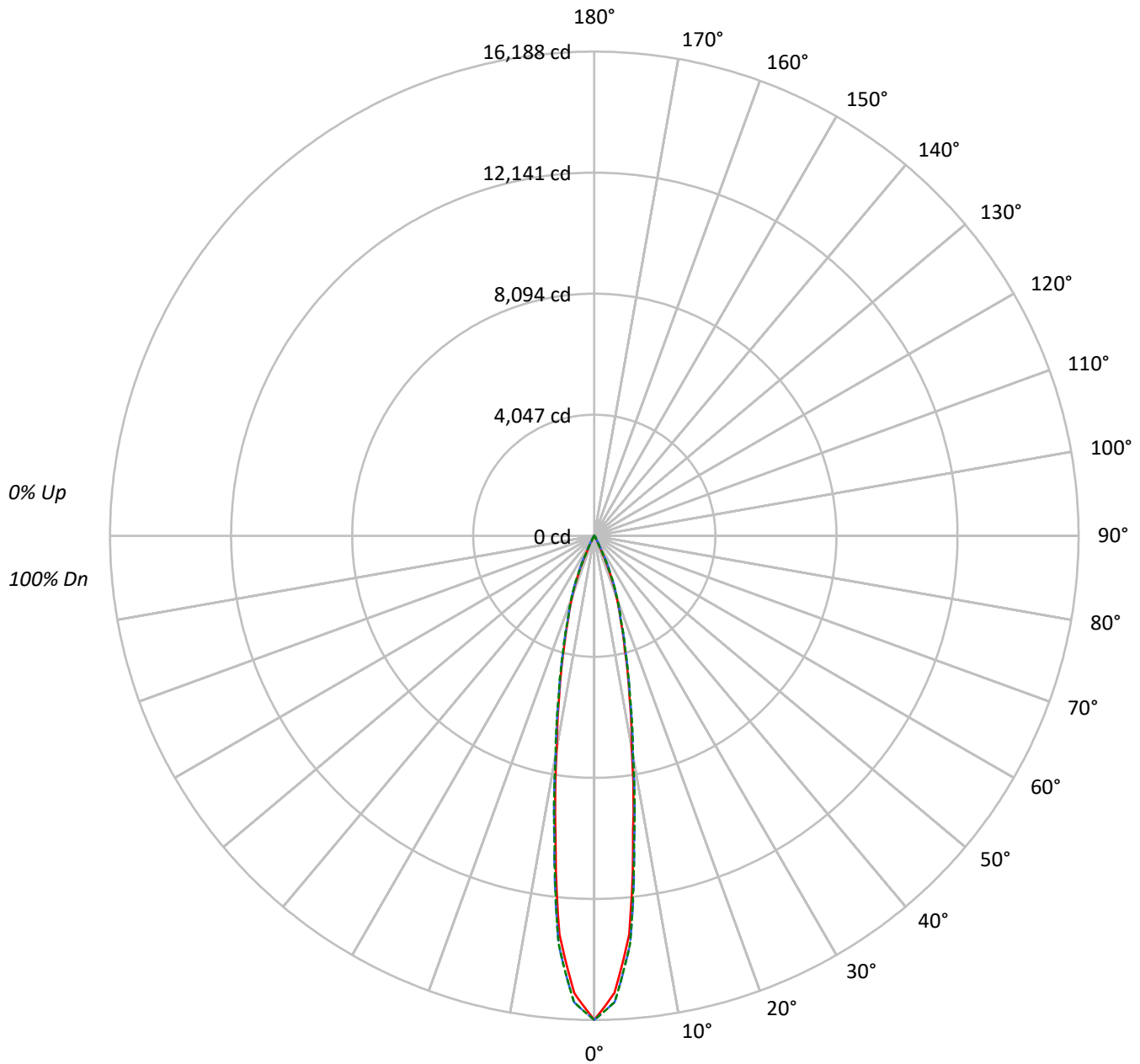
Lumens per Lamp: N/A
Luminaire Lumens: 2701.5 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	110	113	111	109	108	107	106	105		103	102	102		100
2	112	108	105	103	110	107	104	102	103	101	100		101	99	98		98
3	108	104	100	98	107	103	99	97	100	98	95		98	96	94		96
4	105	100	96	94	104	99	96	93	97	94	92		95	93	91		94
5	102	97	93	90	101	96	92	90	94	91	89		93	90	88		92
6	100	94	90	87	98	93	89	87	92	89	86		91	88	86		89
7	97	91	87	84	96	90	87	84	89	86	84		88	85	83		87
8	95	88	85	82	94	88	84	82	87	84	81		86	83	81		85
9	92	86	82	80	92	86	82	80	85	82	79		84	81	79		84
10	90	84	80	78	89	84	80	78	83	80	77		82	79	77		82

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1568190	1568190	1568190
5°	1300775	1334441	1332545
10°	708785	729708	733407
15°	394091	405384	407480
20°	222196	228495	231361
25°	66892	98542	66593
30°	12596	18043	12596
35°	5416	8397	5594
40°	2643	4401	2643
45°	1713	2288	1329
50°	1040	1236	633
55°	709	709	473
60°	543	291	291
65°	344	344	344
70°	0	425	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.8	39.9
10°-20°	1148.8	42.5
20°-30°	419.0	15.5
30°-40°	39.9	1.5
40°-50°	11.0	0.4
50°-60°	3.3	0.1
60°-70°	1.5	0.1
70°-80°	0.3	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°	2645.5	97.9
0°-40°	2685.5	99.4
0°-60°	2699.8	99.9
0°-90°	2701.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2701.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16188	16188	16188	16188	16188	
5°	13376	13714	13722	13579	13703	1057
15°	3929	4022	4042	4034	4063	1124
25°	626	905	922	914	623	361
35°	46	56	71	56	47	33
45°	12	12	17	12	10	10
55°	4	4	4	3	3	4
65°	2	2	2	2	2	1
75°	0	2	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16187.7	16187.7	16187.7	16187.7	16187.7
2.5°	15304.7	15627.3	15603.8	15531.3	15603.8
5°	13376.2	13714.1	13722.4	13579.2	13702.9
7.5°	9943.2	10204.5	10250.4	10110.1	10203.2
10°	7205.3	7438.9	7418.0	7390.3	7455.6
12.5°	5382.4	5500.7	5488.2	5518.7	5522.9
15°	3929.4	4022.5	4042.0	4033.7	4062.9
17.5°	2893.6	2943.7	2933.9	2949.1	2960.3
20°	2155.3	2234.5	2216.4	2230.2	2244.2
22.5°	1429.3	1575.3	1557.4	1579.6	1567.1
25°	625.8	905.2	921.9	913.5	623.0
27.5°	191.8	324.0	415.7	317.0	191.8
30°	112.6	134.8	161.3	132.1	112.6
32.5°	71.0	84.8	101.5	83.4	69.5
35°	45.8	55.6	71.0	55.6	47.3
37.5°	30.6	37.6	50.1	37.6	31.9
40°	20.9	25.0	34.8	26.4	20.9
42.5°	15.3	18.1	23.7	18.1	13.9
45°	12.5	12.5	16.7	12.5	9.7
47.5°	9.7	9.7	11.2	8.2	6.9
50°	6.9	6.9	8.2	5.5	4.2
52.5°	4.2	5.5	5.5	4.2	2.8
55°	4.2	4.2	4.2	2.8	2.8
57.5°	2.8	2.8	2.8	1.5	1.5
60°	2.8	2.8	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5
70°	0.0	1.5	1.5	0.0	0.0
72.5°	0.0	1.5	0.0	0.0	0.0
75°	0.0	1.5	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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