

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: P1212333

Luminaire Tested: **LDSQA4A30940D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212333
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: LDSQA4A30940D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

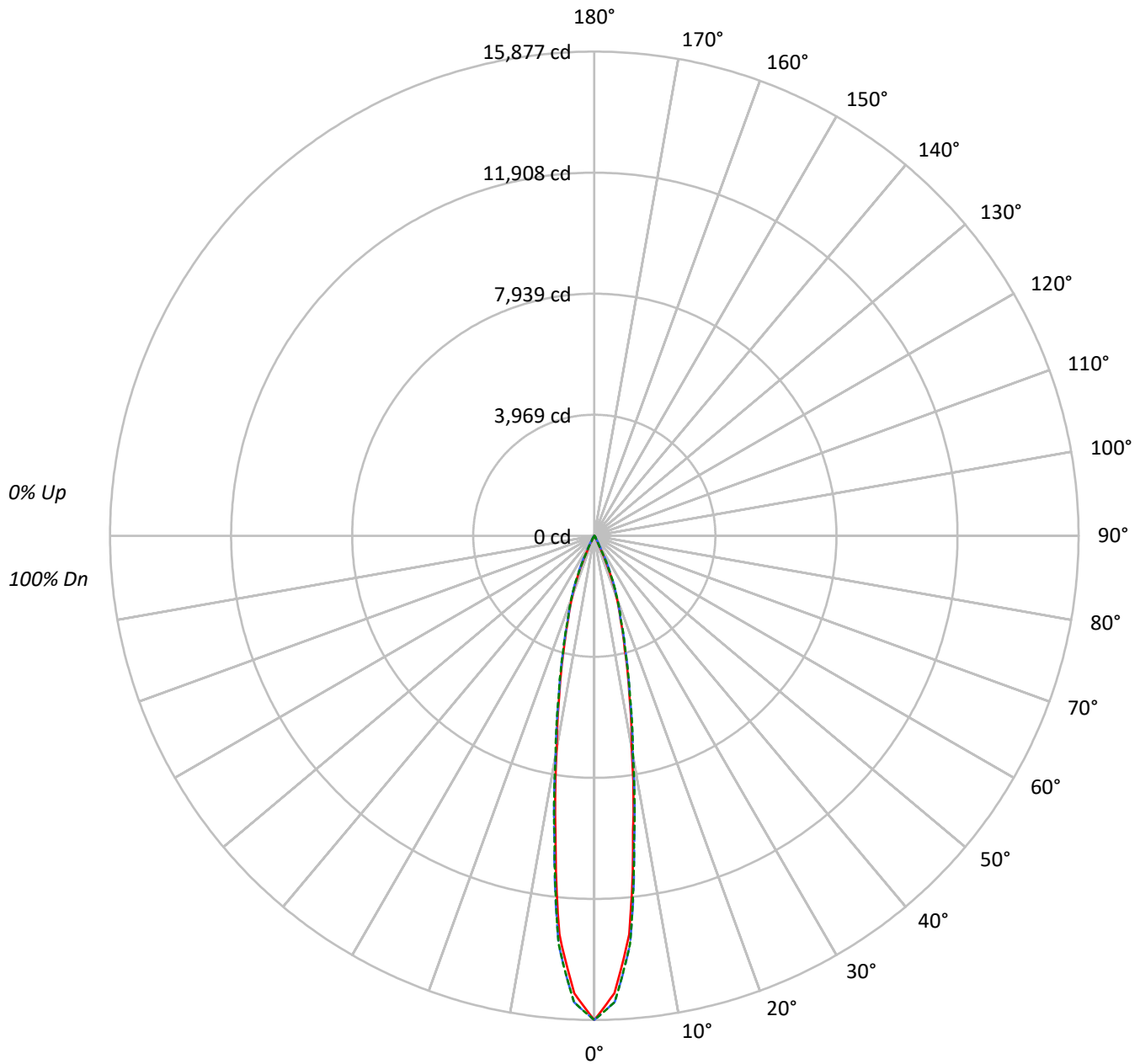
Lumens per Lamp: N/A
Luminaire Lumens: 2649.7 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	1538130	1538130	1538130
5°	1275851	1308866	1307008
10°	695200	715739	719359
15°	386539	397621	399677
20°	217928	224113	226928
25°	65599	96650	65310
30°	12361	17697	12361
35°	5322	8231	5476
40°	2592	4312	2592
45°	1685	2247	1302
50°	1025	1221	618
55°	692	692	456
60°	523	271	271
65°	321	321	321
70°	0	397	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1057.1	39.9
10°-20°	1126.8	42.5
20°-30°	411.0	15.5
30°-40°	39.2	1.5
40°-50°	10.8	0.4
50°-60°	3.2	0.1
60°-70°	1.4	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°	2594.8	97.9
0°-40°	2634.0	99.4
0°-60°	2648.0	99.9
0°-90°	2649.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15877	15877	15877	15877	15877	
5°	13120	13451	13459	13319	13440	1037
15°	3854	3946	3965	3956	3985	1103
25°	614	888	904	896	611	354
35°	45	55	70	55	46	32
45°	12	12	16	12	10	10
55°	4	4	4	3	3	3
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°	15877.4	15877.4	15877.4	15877.4	15877.4
2.5°	15011.5	15327.9	15304.6	15233.8	15304.6
5°	13119.9	13451.3	13459.4	13319.0	13440.3
7.5°	9752.6	10009.0	10053.9	9916.2	10007.6
10°	7067.2	7296.4	7276.0	7248.6	7312.8
12.5°	5279.2	5395.2	5383.0	5412.9	5417.0
15°	3854.1	3945.5	3964.6	3956.4	3985.1
17.5°	2838.1	2887.1	2877.7	2892.7	2903.5
20°	2113.9	2191.6	2173.9	2187.6	2201.2
22.5°	1402.0	1545.2	1527.4	1549.2	1537.0
25°	613.7	887.8	904.2	896.0	611.0
27.5°	188.3	317.8	407.8	311.0	188.3
30°	110.5	132.3	158.2	129.6	110.5
32.5°	69.6	83.2	99.6	81.8	68.1
35°	45.0	54.6	69.6	54.6	46.3
37.5°	30.1	36.8	49.0	36.8	31.4
40°	20.5	24.5	34.1	25.9	20.5
42.5°	15.0	17.7	23.2	17.7	13.7
45°	12.3	12.3	16.4	12.3	9.5
47.5°	9.5	9.5	11.0	8.1	6.8
50°	6.8	6.8	8.1	5.4	4.1
52.5°	4.1	5.4	5.4	4.1	2.7
55°	4.1	4.1	4.1	2.7	2.7
57.5°	2.7	2.7	2.7	1.4	1.4
60°	2.7	2.7	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	0.0	1.4	1.4	0.0	0.0
72.5°	0.0	1.4	0.0	0.0	0.0
75°	0.0	1.4	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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