

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: P1219544

Luminaire Tested: **LDSQA4A25950D010TE LAR15SP 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25950D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

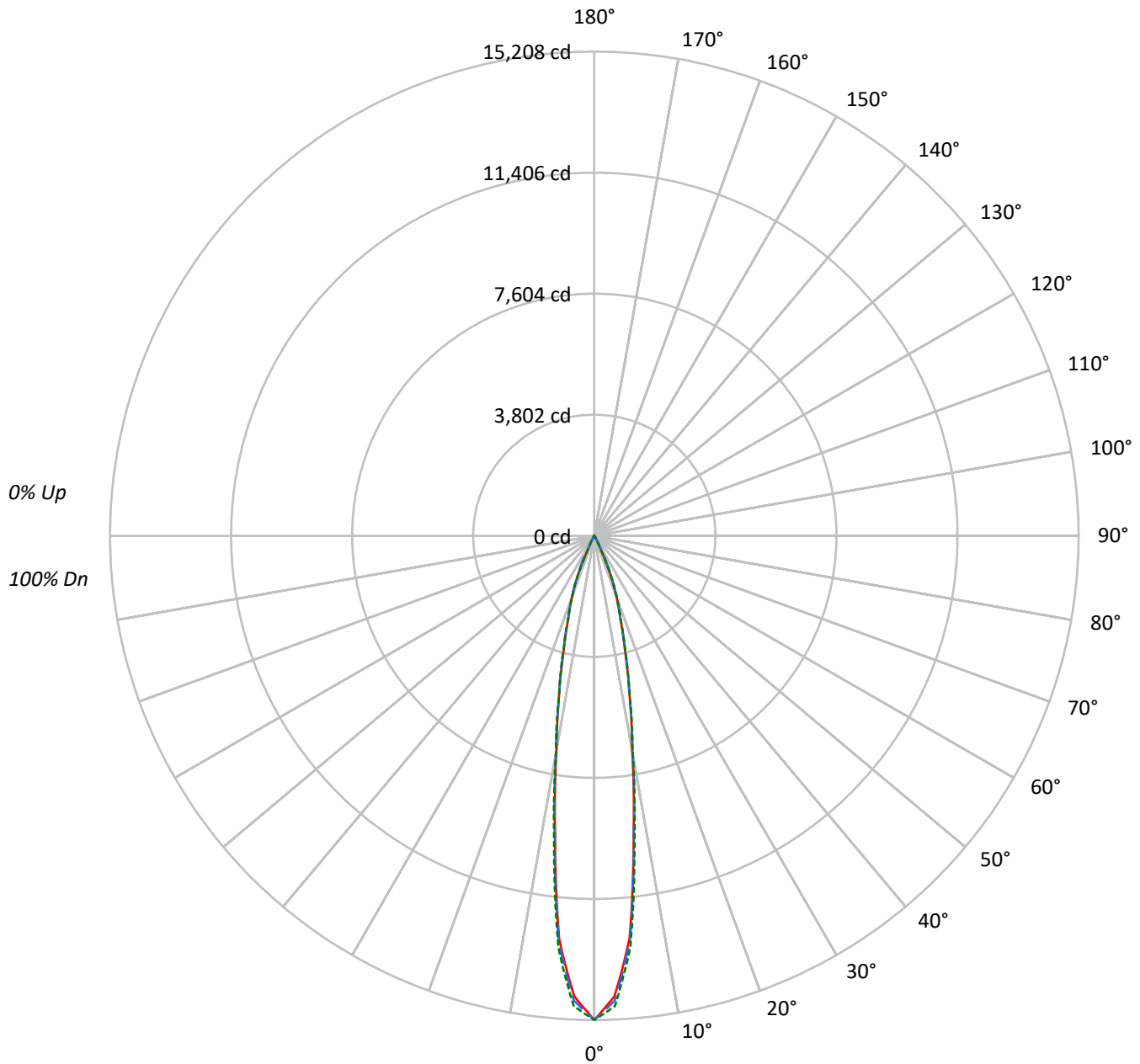
Lumens per Lamp: N/A
Luminaire Lumens: 2496.7 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1473301	1473301	1473301
5°	1234872	1245316	1263413
10°	671817	681802	684389
15°	371505	377492	378916
20°	210381	210989	212227
25°	57411	89937	56374
30°	9217	14016	8949
35°	3098	5215	2957
40°	1366	2112	1366
45°	808	986	658
50°	527	527	362
55°	405	405	186
60°	213	213	213
65°	252	252	252
70°	312	312	312
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.7	40.6
10°-20°	1072.0	42.9
20°-30°	377.1	15.1
30°-40°	25.4	1.0
40°-50°	5.3	0.2
50°-60°	1.7	0.1
60°-70°	1.1	0.0
70°-80°	0.4	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°	2462.8	98.6
0°-40°	2488.2	99.7
0°-60°	2495.2	99.9
0°-90°	2496.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15208	15208	15208	15208	15208	
5°	12698	12889	12806	12830	12992	1002
15°	3704	3766	3764	3755	3778	1061
25°	537	815	841	802	527	332
35°	26	32	44	32	25	20
45°	6	6	7	6	5	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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15208.2	15208.2	15208.2	15208.2	15208.2
2.5°	14477.8	14667.5	14619.8	14588.8	14788.1
5°	12698.5	12889.4	12805.9	12829.8	12992.0
7.5°	9440.7	9601.8	9515.9	9551.6	9675.8
10°	6829.5	6989.4	6931.0	6950.1	6957.3
12.5°	5092.0	5162.5	5116.0	5129.1	5152.9
15°	3704.2	3766.3	3763.9	3755.4	3778.1
17.5°	2718.5	2748.3	2718.5	2717.3	2732.8
20°	2040.7	2082.4	2046.6	2051.4	2058.6
22.5°	1371.1	1454.8	1440.4	1422.4	1403.4
25°	537.1	815.0	841.4	801.9	527.4
27.5°	154.0	254.2	361.5	249.4	149.1
30°	82.4	97.8	125.3	95.4	80.0
32.5°	44.1	56.1	71.7	54.9	43.0
35°	26.2	32.2	44.1	32.2	25.0
37.5°	16.7	20.3	27.6	20.3	16.7
40°	10.8	13.2	16.7	13.2	10.8
42.5°	8.3	9.6	10.8	8.3	7.2
45°	5.9	5.9	7.2	5.9	4.8
47.5°	4.8	4.8	4.8	3.5	3.5
50°	3.5	3.5	3.5	2.4	2.4
52.5°	2.4	2.4	2.4	2.4	2.4
55°	2.4	2.4	2.4	1.1	1.1
57.5°	2.4	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	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	0.0
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	0.0	0.0
75°	0.0	1.1	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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Scaled Data Report



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