

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: P1219546

Luminaire Tested: **LDSQA4A25950D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219546
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: LDSQA4A25950D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

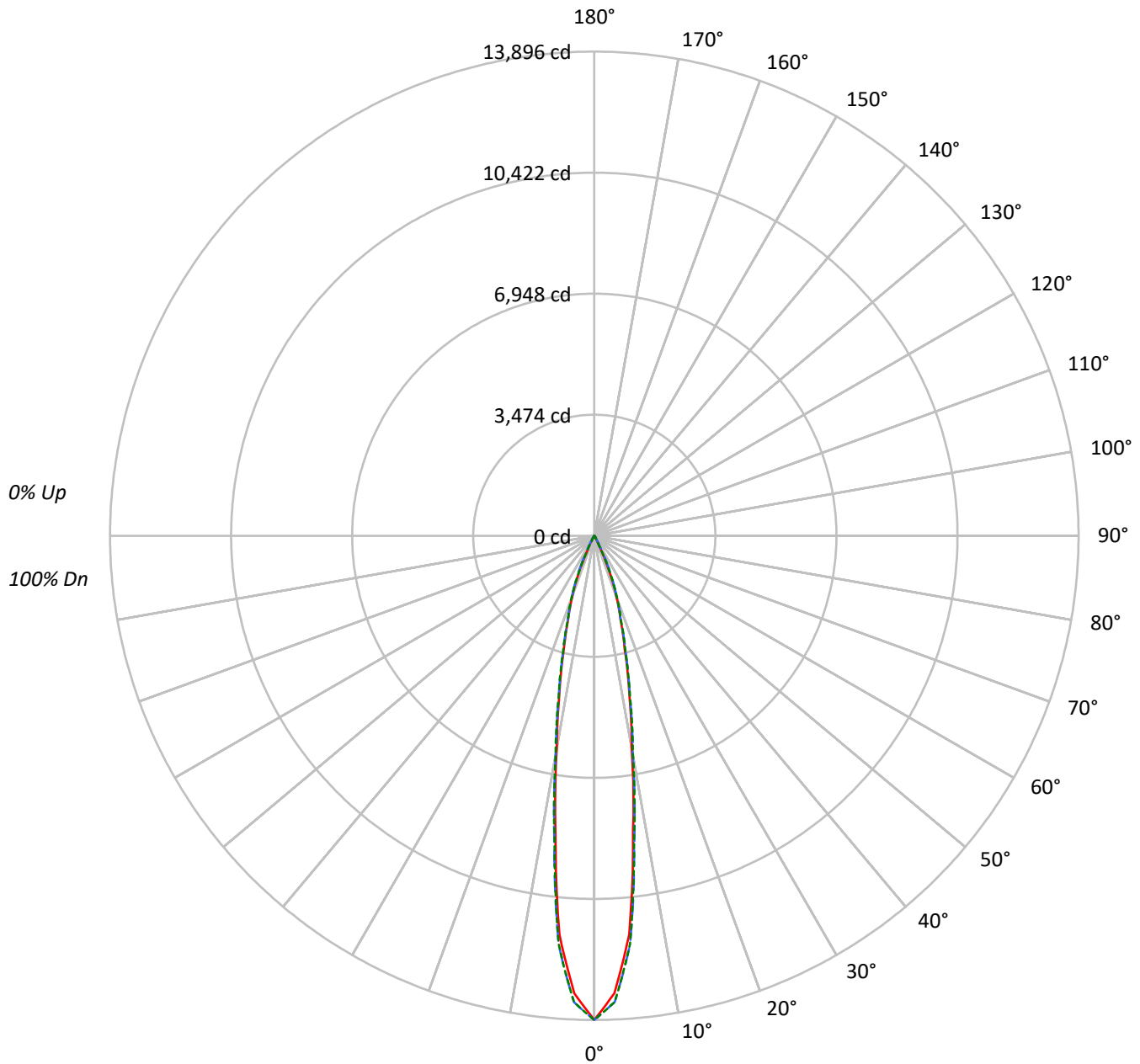
Lumens per Lamp: N/A
Luminaire Lumens: 2318.9 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	1346191	1346191	1346191
5°	1116631	1145532	1143908
10°	608447	626410	629597
15°	338298	348006	349791
20°	190732	196154	198608
25°	57411	84593	57165
30°	10817	15482	10817
35°	4648	7202	4801
40°	2264	3769	2264
45°	1480	1973	1137
50°	889	1085	527
55°	591	591	405
60°	465	213	213
65°	252	252	252
70°	0	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.2	39.9
10°-20°	986.2	42.5
20°-30°	359.7	15.5
30°-40°	34.3	1.5
40°-50°	9.4	0.4
50°-60°	2.8	0.1
60°-70°	1.1	0.0
70°-80°	0.2	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°	2271.0	97.9
0°-40°	2305.3	99.4
0°-60°	2317.6	99.9
0°-90°	2318.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2318.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13896	13896	13896	13896	13896	
5°	11483	11773	11780	11657	11763	907
15°	3373	3453	3470	3463	3488	965
25°	537	777	791	784	535	310
35°	39	48	61	48	41	28
45°	11	11	14	11	8	8
55°	4	4	4	2	2	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°	13896.1	13896.1	13896.1	13896.1	13896.1
2.5°	13138.2	13415.2	13394.8	13332.7	13394.8
5°	11482.6	11772.8	11779.8	11656.9	11763.1
7.5°	8535.6	8760.0	8799.3	8678.8	8758.8
10°	6185.3	6385.9	6367.9	6344.1	6400.3
12.5°	4620.4	4721.9	4711.2	4737.5	4741.0
15°	3373.1	3453.1	3469.9	3462.7	3487.7
17.5°	2483.9	2526.9	2518.6	2531.8	2541.1
20°	1850.1	1918.1	1902.7	1914.5	1926.5
22.5°	1227.0	1352.3	1336.8	1355.8	1345.2
25°	537.1	777.1	791.4	784.2	534.8
27.5°	164.7	278.1	356.9	272.2	164.7
30°	96.7	115.8	138.4	113.5	96.7
32.5°	60.9	72.8	87.2	71.7	59.6
35°	39.3	47.7	60.9	47.7	40.6
37.5°	26.3	32.2	43.0	32.2	27.6
40°	17.9	21.5	29.8	22.7	17.9
42.5°	13.2	15.5	20.3	15.5	12.0
45°	10.8	10.8	14.4	10.8	8.3
47.5°	8.3	8.3	9.6	7.2	5.9
50°	5.9	5.9	7.2	4.8	3.5
52.5°	3.5	4.8	4.8	3.5	2.4
55°	3.5	3.5	3.5	2.4	2.4
57.5°	2.4	2.4	2.4	1.1	1.1
60°	2.4	2.4	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	1.1
70°	0.0	1.1	1.1	0.0	0.0
72.5°	0.0	1.1	0.0	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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