

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: P1219516

Luminaire Tested: **LDSQA4A15950D010TE LAR15SP 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219516
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: LDSQA4A15950D010TE 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

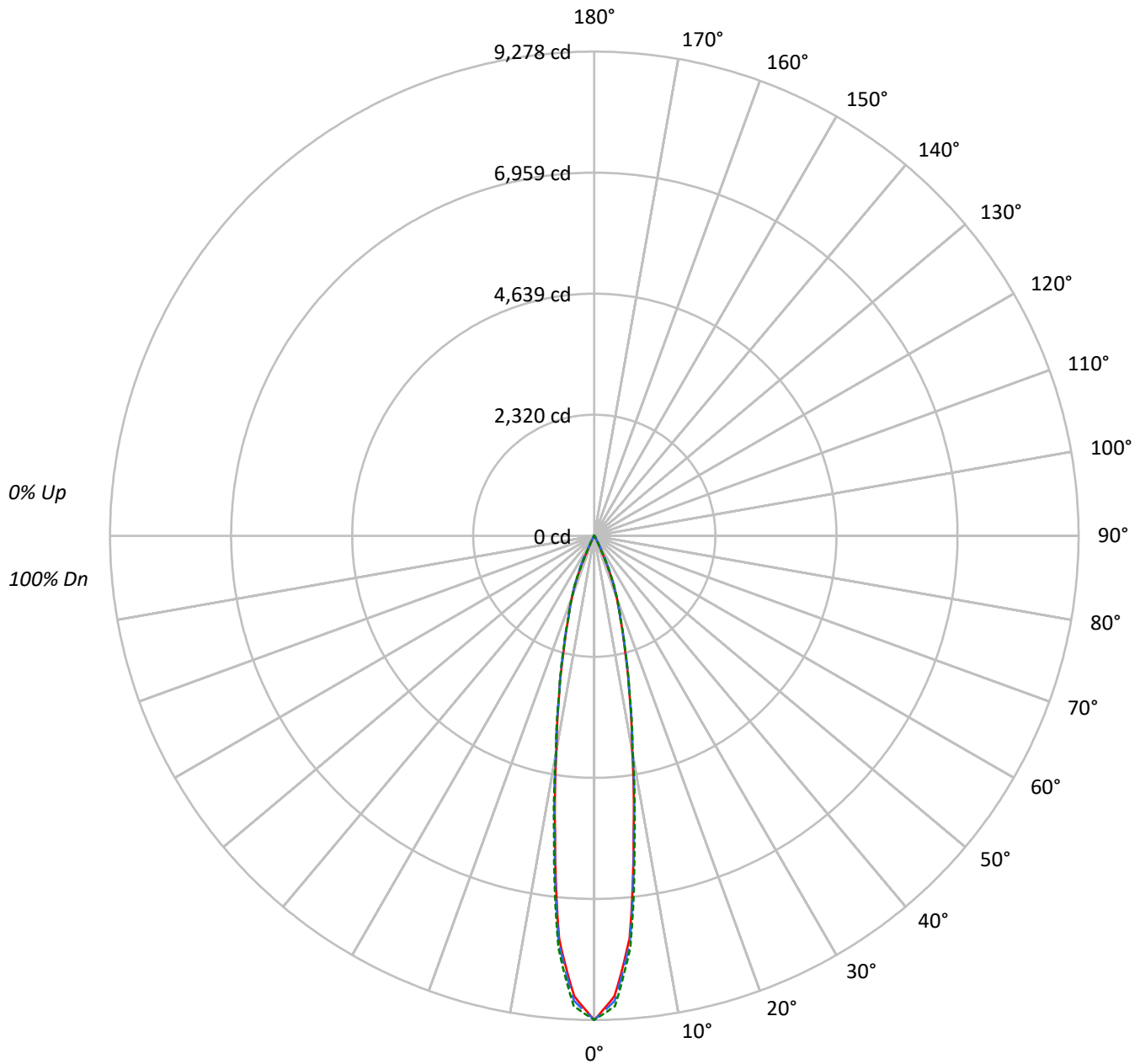
Lumens per Lamp: N/A
Luminaire Lumens: 1523.3 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	110	113	111	110	108		107	106	105			104	103	102			97
2	112	108	105	103	110	107	104	102		104	102	100			101	99	98			94
3	108	104	101	98	107	103	100	97		100	98	96			98	96	94			92
4	105	100	97	94	104	99	96	93		97	95	92			96	93	91			89
5	103	97	93	90	101	96	93	90		95	92	89			93	91	89			87
6	100	94	90	87	99	93	90	87		92	89	87			91	88	86			85
7	97	91	88	85	96	91	87	85		90	87	84			89	86	84			82
8	95	89	85	82	94	88	85	82		88	84	82			87	84	82			80
9	93	87	83	80	92	86	83	80		85	82	80			85	82	80			79
10	91	84	81	78	90	84	81	78		83	80	78			83	80	78			77

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	898859	898859	898859
5°	753400	759759	770816
10°	409878	415957	417551
15°	226652	230302	231185
20°	128350	128722	129474
25°	35017	54856	34408
30°	5615	8546	5459
35°	1892	3181	1809
40°	835	1290	835
45°	493	603	397
50°	332	332	226
55°	253	253	118
60°	136	136	136
65°	160	160	160
70°	198	198	198
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.5	40.6
10°-20°	654.0	42.9
20°-30°	230.1	15.1
30°-40°	15.5	1.0
40°-50°	3.2	0.2
50°-60°	1.1	0.1
60°-70°	0.7	0.0
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°	1502.6	98.6
0°-40°	1518.1	99.7
0°-60°	1522.3	99.9
0°-90°	1523.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9278	9278	9278	9278	9278	
5°	7747	7864	7813	7828	7926	611
15°	2260	2298	2296	2291	2305	648
25°	328	497	513	489	322	203
35°	16	20	27	20	15	12
45°	4	4	4	4	3	3
55°	2	2	2	1	1	1
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°	9278.5	9278.5	9278.5	9278.5	9278.5
2.5°	8832.8	8948.7	8919.6	8900.6	9022.2
5°	7747.4	7863.8	7812.8	7827.5	7926.5
7.5°	5759.7	5858.0	5805.6	5827.4	5903.1
10°	4166.7	4264.3	4228.5	4240.2	4244.7
12.5°	3106.6	3149.6	3121.2	3129.3	3143.8
15°	2259.9	2297.8	2296.3	2291.1	2305.1
17.5°	1658.5	1676.7	1658.5	1657.8	1667.2
20°	1245.0	1270.5	1248.6	1251.5	1255.9
22.5°	836.6	887.5	878.8	867.9	856.2
25°	327.6	497.3	513.2	489.2	321.9
27.5°	93.9	155.1	220.7	152.2	91.0
30°	50.2	59.7	76.4	58.2	48.8
32.5°	26.9	34.2	43.7	33.5	26.2
35°	16.0	19.7	26.9	19.7	15.3
37.5°	10.2	12.4	16.7	12.4	10.2
40°	6.6	8.0	10.2	8.0	6.6
42.5°	5.1	5.8	6.6	5.1	4.4
45°	3.6	3.6	4.4	3.6	2.9
47.5°	2.9	2.9	2.9	2.2	2.2
50°	2.2	2.2	2.2	1.5	1.5
52.5°	1.5	1.5	1.5	1.5	1.5
55°	1.5	1.5	1.5	0.7	0.7
57.5°	1.5	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.0
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.0	0.0
75°	0.0	0.7	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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(END OF REPORT)