

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: P1212351

Luminaire Tested: **LDSQA4A35927D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35927D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

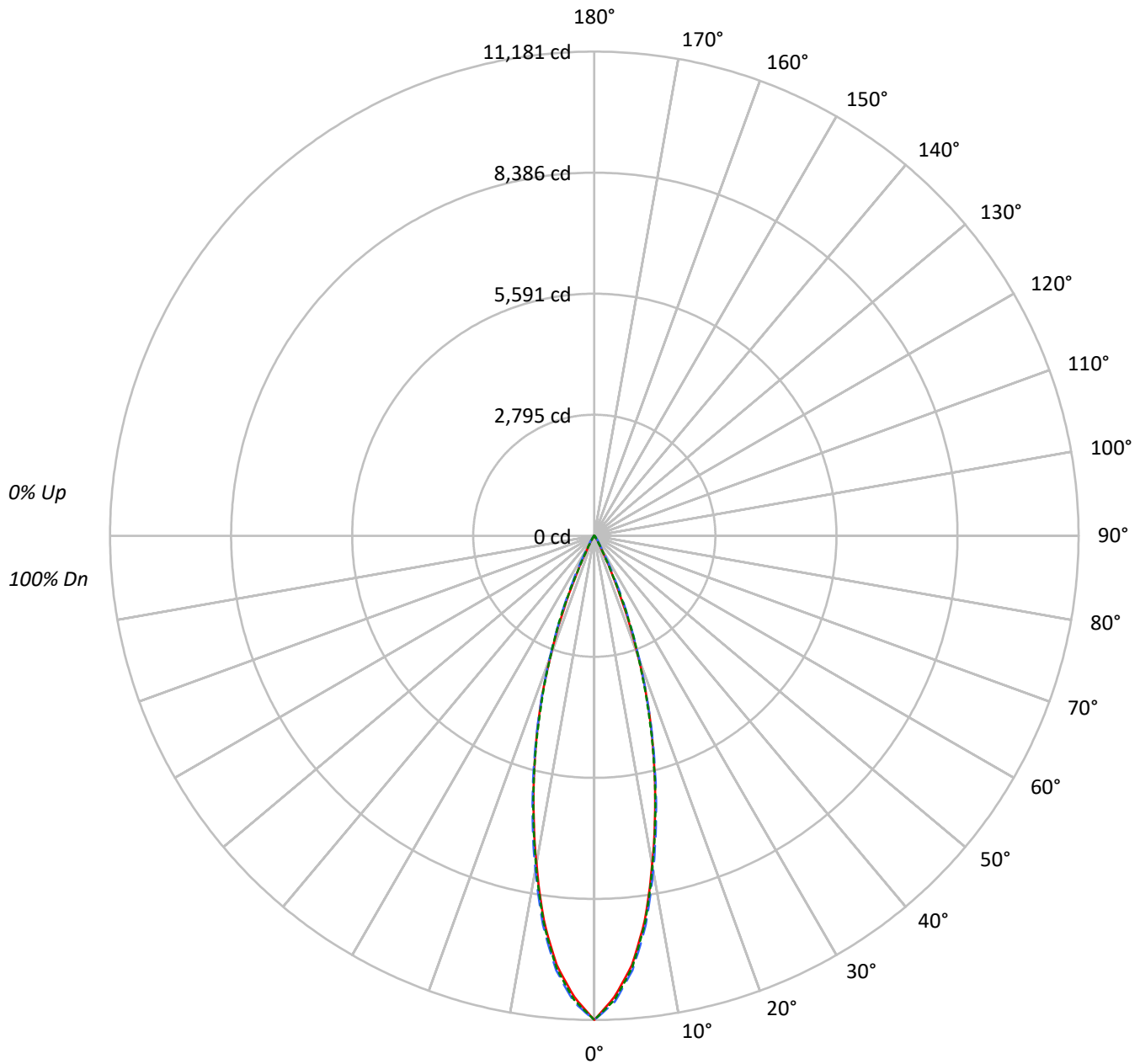
Lumens per Lamp: N/A
Luminaire Lumens: 2982.4 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					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	109	113	111	109	107		107	105	104			103	102	101			96
2	111	107	104	102	109	106	103	101		103	100	99			100	98	96			93
3	107	103	99	96	106	101	98	95		99	96	94			97	94	92			90
4	104	99	95	91	102	97	94	91		95	92	90			94	91	89			87
5	101	95	91	87	99	94	90	87		92	89	86			91	88	86			84
6	98	91	87	84	96	91	87	84		89	86	83			88	85	83			81
7	95	88	84	81	94	88	84	81		87	83	80			85	82	80			79
8	92	85	81	78	91	85	81	78		84	80	78			83	80	77			76
9	89	83	78	76	89	82	78	76		81	78	75			81	77	75			74
10	87	80	76	73	86	80	76	73		79	76	73			78	75	73			72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1083184	1083184	1083184
5°	967379	979534	973456
10°	757242	770797	761344
15°	531753	535664	528824
20°	305196	311495	304917
25°	96618	127082	99739
30°	25661	31881	24733
35°	8716	15788	8870
40°	3870	6336	3870
45°	2096	2863	1713
50°	1236	1462	829
55°	709	709	473
60°	543	543	291
65°	344	344	344
70°	425	425	425
75°	0	561	561
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.9	29.7
10°-20°	1446.0	48.5
20°-30°	560.1	18.8
30°-40°	68.7	2.3
40°-50°	14.4	0.5
50°-60°	3.9	0.1
60°-70°	1.6	0.1
70°-80°	0.9	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°	2893.0	97.0
0°-40°	2961.6	99.3
0°-60°	2979.9	99.9
0°-90°	2982.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11181	11181	11181	11181	11181	
5°	9948	10092	10073	10012	10010	879
15°	5302	5373	5341	5302	5273	1438
25°	904	1132	1189	1168	933	507
35°	74	89	134	88	75	56
45°	15	17	21	15	12	13
55°	4	4	4	3	3	4
65°	2	2	2	2	2	2
75°	0	2	2	2	2	1
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°	11181.2	11181.2	11181.2	11181.2	11181.2
2.5°	10658.4	10807.1	10772.3	10702.8	10720.9
5°	9947.8	10092.5	10072.8	10011.7	10010.3
7.5°	8945.2	9087.1	9070.4	8996.7	8989.7
10°	7697.9	7827.2	7835.7	7728.6	7739.6
12.5°	6479.8	6585.5	6589.7	6516.0	6500.6
15°	5302.0	5372.9	5341.0	5302.0	5272.8
17.5°	4140.9	4156.3	4149.3	4092.3	4071.4
20°	2960.4	3027.2	3021.5	2972.9	2957.7
22.5°	1843.8	1964.8	2020.4	1976.0	1999.5
25°	903.9	1131.9	1188.9	1168.0	933.1
27.5°	367.1	479.8	597.9	472.7	354.5
30°	229.4	250.3	285.0	240.6	221.1
32.5°	121.0	151.5	193.3	147.5	121.0
35°	73.7	89.0	133.5	87.7	75.0
37.5°	47.3	55.6	77.9	55.6	48.6
40°	30.6	36.1	50.1	36.1	30.6
42.5°	20.9	23.7	31.9	23.7	19.4
45°	15.3	16.7	20.9	15.3	12.5
47.5°	11.2	12.5	13.9	9.7	8.2
50°	8.2	8.2	9.7	6.9	5.5
52.5°	5.5	6.9	6.9	4.2	4.2
55°	4.2	4.2	4.2	2.8	2.8
57.5°	4.2	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	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°	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	0.0
75°	0.0	1.5	1.5	1.5	1.5
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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