

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: P1219564

Luminaire Tested: **LDSQA4A30950D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219564
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: LDSQA4A30950D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

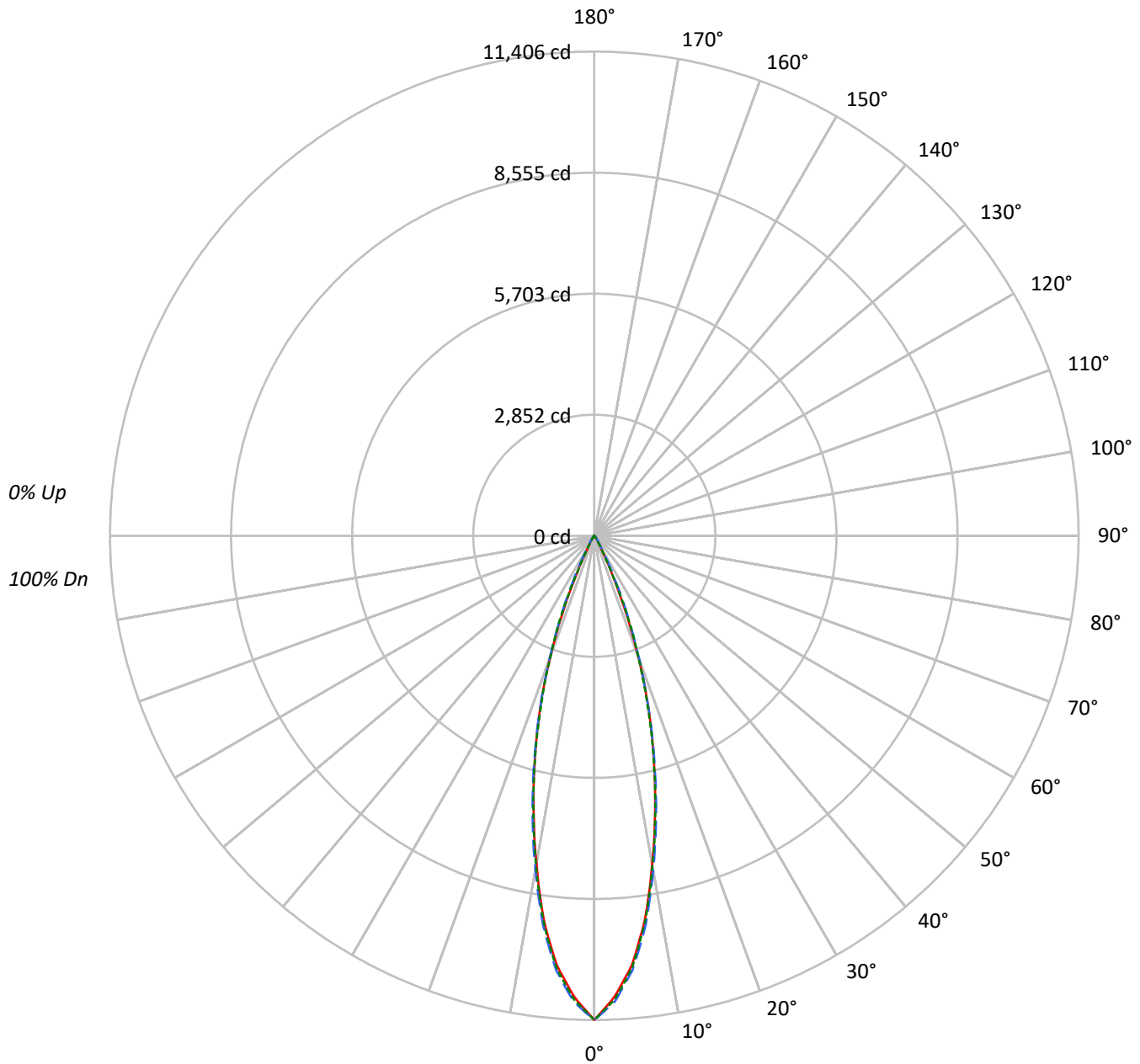
Lumens per Lamp: N/A
Luminaire Lumens: 3042.2 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1104922	1104922	1104922
5°	986789	999207	992993
10°	772440	786261	776630
15°	542434	546415	539445
20°	311309	317752	311020
25°	98553	129636	101738
30°	26176	32530	25225
35°	8893	16107	9059
40°	3958	6475	3958
45°	2137	2918	1754
50°	1266	1492	844
55°	726	726	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°	904.7	29.7
10°-20°	1475.1	48.5
20°-30°	571.3	18.8
30°-40°	70.0	2.3
40°-50°	14.7	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°	2951.1	97.0
0°-40°	3021.1	99.3
0°-60°	3039.8	99.9
0°-90°	3042.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11406	11406	11406	11406	11406	
5°	10147	10295	10275	10213	10211	897
15°	5408	5481	5448	5408	5379	1467
25°	922	1155	1213	1192	952	517
35°	75	91	136	89	77	57
45°	16	17	21	16	13	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°	11405.6	11405.6	11405.6	11405.6	11405.6
2.5°	10872.3	11024.0	10988.6	10917.6	10936.0
5°	10147.4	10295.0	10275.1	10212.7	10211.2
7.5°	9124.8	9269.4	9252.4	9177.3	9170.1
10°	7852.4	7984.3	7992.9	7883.6	7895.0
12.5°	6609.9	6717.7	6721.9	6646.7	6631.1
15°	5408.5	5480.8	5448.2	5408.5	5378.7
17.5°	4224.1	4239.7	4232.6	4174.5	4153.1
20°	3019.7	3088.0	3082.2	3032.6	3016.9
22.5°	1880.8	2004.2	2061.0	2015.6	2039.6
25°	922.0	1154.6	1212.8	1191.5	951.8
27.5°	374.4	489.3	610.0	482.4	361.7
30°	234.0	255.3	290.8	245.3	225.5
32.5°	123.3	154.6	197.2	150.3	123.3
35°	75.2	90.7	136.2	89.3	76.6
37.5°	48.2	56.8	79.5	56.8	49.6
40°	31.3	36.9	51.2	36.9	31.3
42.5°	21.3	24.1	32.7	24.1	19.9
45°	15.6	17.1	21.3	15.6	12.8
47.5°	11.4	12.8	14.2	9.9	8.4
50°	8.4	8.4	9.9	7.1	5.6
52.5°	5.6	7.1	7.1	4.3	4.3
55°	4.3	4.3	4.3	2.8	2.8
57.5°	4.3	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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(END OF REPORT)