

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: P282718

Luminaire Tested: **LDA2B158050D010 EU2B15NFL258050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158050D010 EU2B15NFL258050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1276.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

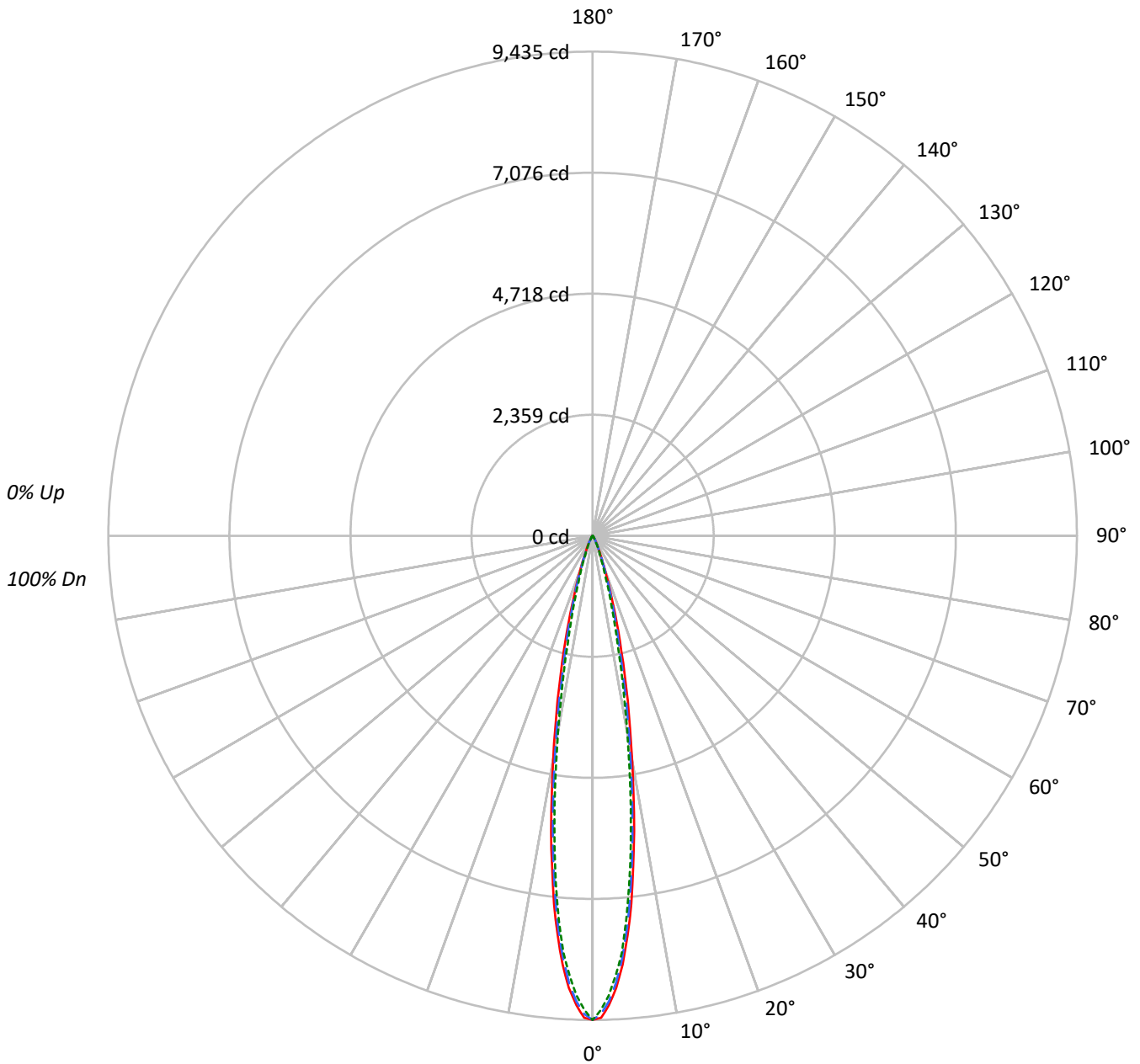
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97					97			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95					95			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92					92			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90					90			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88					88			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86					86			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84					84			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83					83			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81					81			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79					79			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4655066	4655066	4655066
5°	3873520	3802501	3725738
10°	2218708	2081992	1943123
15°	986850	876423	734430
20°	358014	336593	266660
25°	137452	128361	110506
30°	59304	55146	48936
35°	28066	28066	23248
40°	14040	14555	11721
45°	8094	7605	7117
50°	5603	4989	4989
55°	4387	3097	3785
60°	3552	2171	2861
65°	2568	1751	2568
70°	2164	1010	2164
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.7	48.1
10°-20°	496.6	38.9
20°-30°	119.8	9.4
30°-40°	30.5	2.4
40°-50°	9.1	0.7
50°-60°	3.9	0.3
60°-70°	1.9	0.1
70°-80°	0.6	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°	1230.0	96.4
0°-40°	1260.6	98.8
0°-60°	1273.5	99.8
0°-90°	1276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9435	9435	9435	9435	9435	
5°	7821	7749	7678	7611	7523	632
15°	1932	1886	1716	1546	1438	551
25°	252	254	236	214	203	130
35°	47	47	47	42	39	32
45°	12	12	11	10	10	10
55°	5	4	4	4	4	4
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	9435.4	9435.4	9435.4	9435.4	9435.4
1°	9393.2	9327.7	9319.7	9360.4	9240.4
2°	9153.0	9106.5	9079.5	9103.6	8967.5
3°	8823.4	8778.3	8729.5	8730.3	8578.2
4°	8374.4	8338.7	8256.5	8231.8	8143.7
5°	7821.4	7749.3	7678.0	7611.0	7523.0
6°	7210.1	7116.9	7015.1	6915.4	6825.1
7°	6491.1	6429.3	6294.6	6158.5	6082.1
8°	5815.1	5715.4	5558.2	5387.9	5323.1
9°	5088.1	5016.8	4836.3	4638.4	4573.6
10°	4428.8	4354.6	4155.9	3935.4	3878.7
11°	3810.3	3740.4	3533.7	3302.3	3241.9
12°	3287.0	3188.1	2950.8	2750.0	2691.0
13°	2766.0	2698.3	2473.5	2274.8	2160.6
14°	2322.8	2266.8	2063.0	1888.4	1767.6
15°	1932.1	1886.2	1715.9	1545.6	1437.9
16°	1584.9	1556.6	1421.9	1257.5	1169.4
17°	1285.9	1259.7	1173.8	1022.4	948.2
18°	1038.4	1034.8	963.5	832.5	766.3
19°	854.3	852.9	787.4	677.5	622.9
20°	681.9	691.3	641.1	545.0	507.9
21°	556.0	561.1	521.0	448.3	414.8
22°	452.6	456.3	430.1	370.4	352.2
23°	371.1	373.3	351.5	307.1	291.1
24°	305.6	307.1	287.4	256.2	242.3
25°	252.5	254.0	235.8	213.9	203.0
26°	209.6	211.0	195.0	179.7	168.8
27°	173.9	176.8	160.8	151.4	139.7
28°	148.5	149.2	134.6	128.8	117.9
29°	121.5	125.9	113.5	108.4	100.4
30°	104.1	106.2	96.8	93.1	85.9
32.5°	69.1	70.6	66.2	63.3	57.5
35°	46.6	47.3	46.6	42.2	38.6
37.5°	32.0	32.0	32.7	27.7	26.2
40°	21.8	21.8	22.6	18.9	18.2
42.5°	16.0	16.0	15.3	13.1	13.1
45°	11.6	11.6	10.9	10.2	10.2
47.5°	9.5	8.7	8.0	8.0	8.0
50°	7.3	7.3	6.5	5.8	6.5
52.5°	5.8	5.8	5.1	5.1	5.1
55°	5.1	4.4	3.6	3.6	4.4
57.5°	3.6	3.6	2.9	2.9	3.6
60°	3.6	2.9	2.2	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.7	0.7	1.5
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	2.9	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.5	1.5	2.2



(END OF REPORT)