

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: P282716

Luminaire Tested: **LDA2B158050D010 EU2B15NFL258050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282716
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1273.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

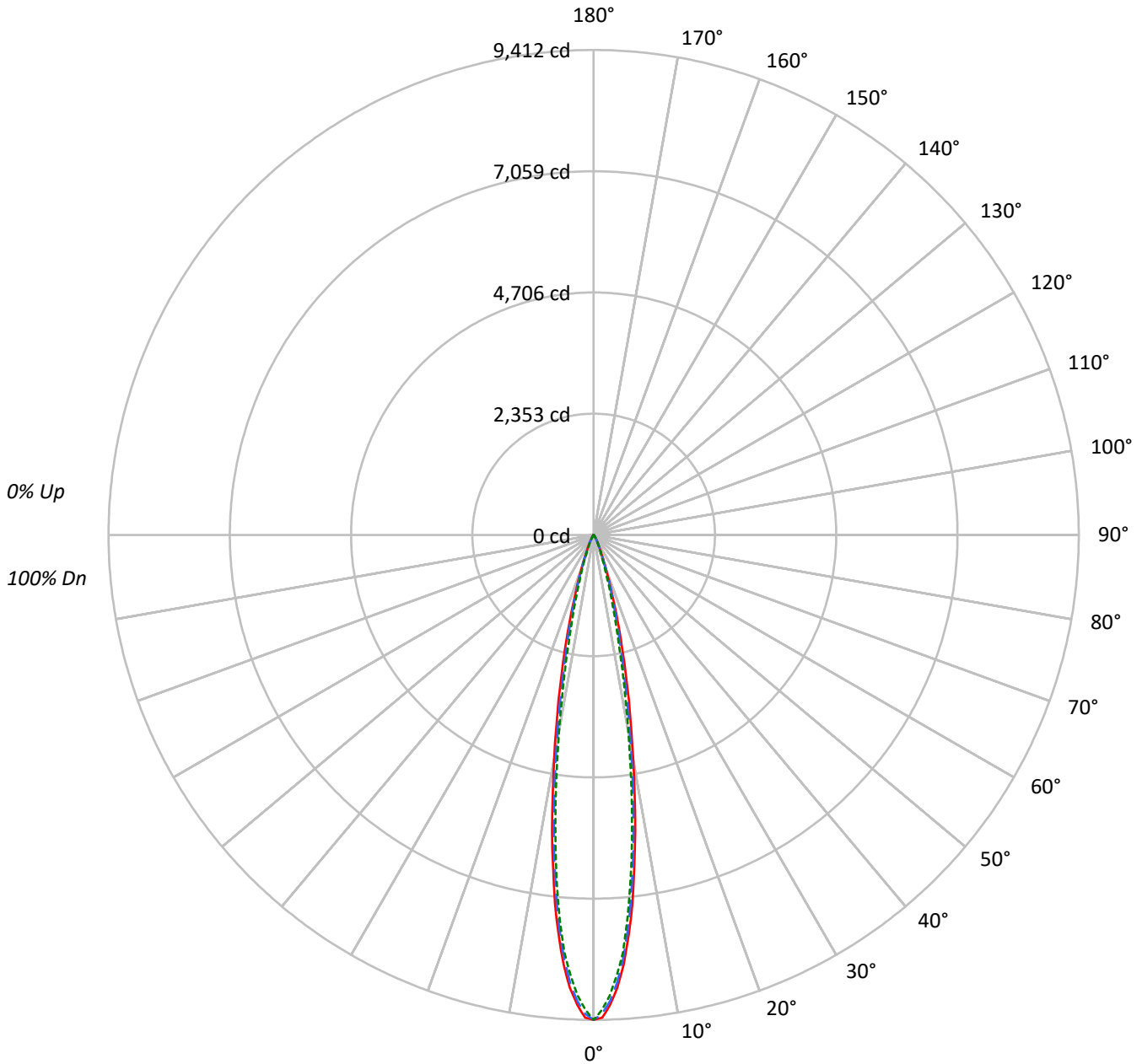
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	4643718	4643718	4643718
5°	3864061	3793240	3716626
10°	2213297	2076933	1938364
15°	984399	874278	732642
20°	357122	335753	266030
25°	137125	128035	110234
30°	59133	54975	48822
35°	28006	28006	23188
40°	14040	14491	11657
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°	612.2	48.1
10°-20°	495.4	38.9
20°-30°	119.5	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°	1227.0	96.4
0°-40°	1257.5	98.8
0°-60°	1270.5	99.8
0°-90°	1273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9412	9412	9412	9412	9412	
5°	7802	7730	7659	7592	7505	631
15°	1927	1882	1712	1542	1434	550
25°	252	253	235	213	202	130
35°	46	47	46	42	38	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°	9412.4	9412.4	9412.4	9412.4	9412.4
1°	9370.3	9304.9	9296.9	9337.6	9217.8
2°	9130.7	9084.3	9057.4	9081.3	8945.6
3°	8801.9	8756.9	8708.2	8708.9	8557.2
4°	8354.0	8318.4	8236.4	8211.7	8123.8
5°	7802.3	7730.4	7659.3	7592.5	7504.6
6°	7192.5	7099.6	6997.9	6898.5	6808.5
7°	6475.3	6413.6	6279.3	6143.5	6067.3
8°	5800.9	5701.4	5544.6	5374.8	5310.2
9°	5075.7	5004.5	4824.5	4627.1	4562.5
10°	4418.0	4343.9	4145.8	3925.8	3869.2
11°	3801.0	3731.3	3525.1	3294.3	3234.0
12°	3279.0	3180.3	2943.6	2743.3	2684.5
13°	2759.2	2691.7	2467.4	2269.2	2155.3
14°	2317.2	2261.3	2058.0	1883.8	1763.3
15°	1927.3	1881.6	1711.7	1541.9	1434.4
16°	1581.1	1552.8	1418.5	1254.4	1166.6
17°	1282.7	1256.6	1170.9	1019.9	945.9
18°	1035.9	1032.3	961.1	830.5	764.4
19°	852.2	850.8	785.5	675.8	621.4
20°	680.2	689.6	639.5	543.7	506.7
21°	554.6	559.7	519.8	447.2	413.8
22°	451.5	455.2	429.0	369.5	351.3
23°	370.2	372.4	350.6	306.3	290.4
24°	304.9	306.3	286.7	255.5	241.7
25°	251.9	253.3	235.2	213.4	202.5
26°	209.1	210.5	194.5	179.3	168.4
27°	173.5	176.4	160.4	151.0	139.4
28°	148.1	148.8	134.3	128.5	117.6
29°	121.2	125.6	113.2	108.2	100.2
30°	103.8	106.0	96.5	92.9	85.7
32.5°	69.0	70.4	66.1	63.2	57.3
35°	46.5	47.2	46.5	42.1	38.5
37.5°	31.9	31.9	32.7	27.6	26.1
40°	21.8	21.8	22.5	18.9	18.1
42.5°	16.0	16.0	15.2	13.1	13.1
45°	11.6	11.6	10.9	10.2	10.2
47.5°	9.4	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)