

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: P282286

Luminaire Tested: **LDA2B158027D010 EU2B15NFL258027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282286
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: LDA2B158027D010 EU2B15NFL258027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1282.1 lumens
Efficiency: N/A
Efficacy: 90.9 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

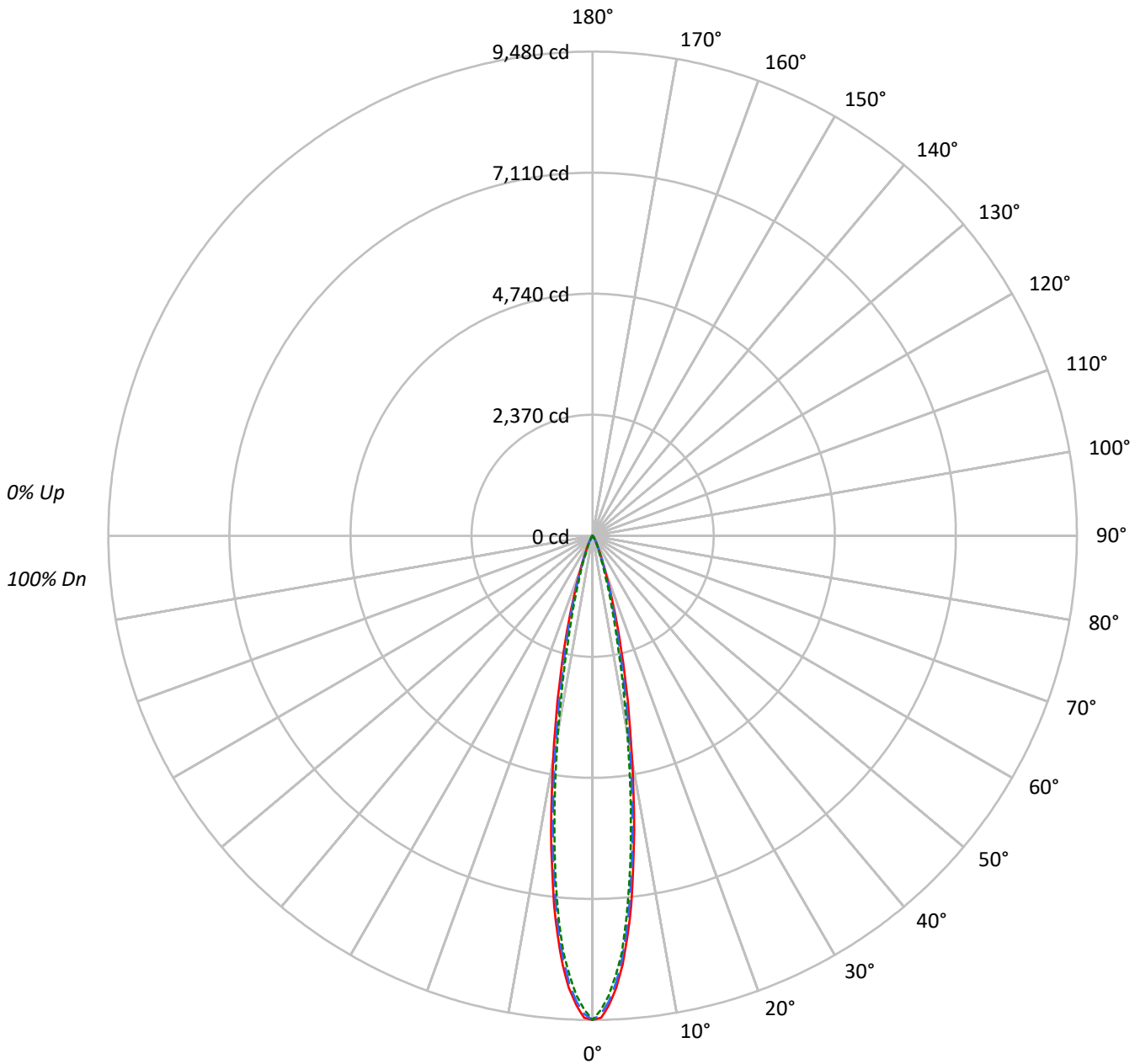
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4677020	4677020	4677020
5°	3891745	3820429	3743320
10°	2229178	2091811	1952240
15°	991498	880560	737903
20°	359694	338168	267920
25°	138105	128960	111050
30°	59589	55373	49164
35°	28187	28187	23369
40°	14104	14620	11786
45°	8163	7675	7117
50°	5603	5066	5066
55°	4387	3183	3785
60°	3651	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°	616.6	48.1
10°-20°	499.0	38.9
20°-30°	120.3	9.4
30°-40°	30.7	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°	1235.8	96.4
0°-40°	1266.5	98.8
0°-60°	1279.6	99.8
0°-90°	1282.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9480	9480	9480	9480	9480	
5°	7858	7786	7714	7647	7558	635
15°	1941	1895	1724	1553	1445	553
25°	254	255	237	215	204	131
35°	47	48	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°	9479.9	9479.9	9479.9	9479.9	9479.9
1°	9437.5	9371.7	9363.6	9404.6	9283.9
2°	9196.2	9149.4	9122.4	9146.5	9009.8
3°	8865.0	8819.7	8770.7	8771.4	8618.6
4°	8413.9	8378.1	8295.5	8270.6	8182.1
5°	7858.2	7785.9	7714.2	7646.9	7558.5
6°	7244.1	7150.5	7048.1	6948.0	6857.3
7°	6521.7	6459.6	6324.3	6187.6	6110.8
8°	5842.5	5742.3	5584.4	5413.3	5348.3
9°	5112.1	5040.4	4859.1	4660.3	4595.2
10°	4449.7	4375.1	4175.5	3954.0	3896.9
11°	3828.2	3758.0	3550.4	3317.9	3257.2
12°	3302.5	3203.1	2964.8	2763.0	2703.7
13°	2779.0	2711.0	2485.1	2285.5	2170.7
14°	2333.8	2277.5	2072.8	1897.3	1775.9
15°	1941.2	1895.1	1724.0	1552.9	1444.7
16°	1592.4	1563.9	1428.6	1263.4	1174.9
17°	1291.9	1265.6	1179.3	1027.2	952.7
18°	1043.3	1039.7	968.0	836.4	769.9
19°	858.4	856.9	791.1	680.7	625.9
20°	685.1	694.6	644.1	547.6	510.3
21°	558.6	563.7	523.5	450.4	416.7
22°	454.8	458.4	432.1	372.1	353.9
23°	372.9	375.1	353.1	308.5	292.5
24°	307.1	308.5	288.8	257.4	243.5
25°	253.7	255.2	236.9	215.0	204.0
26°	210.6	212.0	195.9	180.6	169.6
27°	174.7	177.7	161.6	152.1	140.4
28°	149.2	149.9	135.3	129.4	118.4
29°	122.1	126.5	114.1	108.9	100.9
30°	104.6	106.7	97.2	93.6	86.3
32.5°	69.5	70.9	66.5	63.6	57.8
35°	46.8	47.5	46.8	42.4	38.8
37.5°	32.2	32.2	32.9	27.8	26.3
40°	21.9	21.9	22.7	19.0	18.3
42.5°	16.1	16.1	15.4	13.2	13.2
45°	11.7	11.7	11.0	10.2	10.2
47.5°	9.5	8.8	8.0	8.0	8.0
50°	7.3	7.3	6.6	5.8	6.6
52.5°	5.8	5.8	5.1	5.1	5.1
55°	5.1	4.4	3.7	3.7	4.4
57.5°	3.7	3.7	2.9	2.9	3.7
60°	3.7	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)