

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: P282376

Luminaire Tested: **LDA2B208030D010 EU2B20NFL258030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282376
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: LDA2B208030D010 EU2B20NFL258030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 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: 1818.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

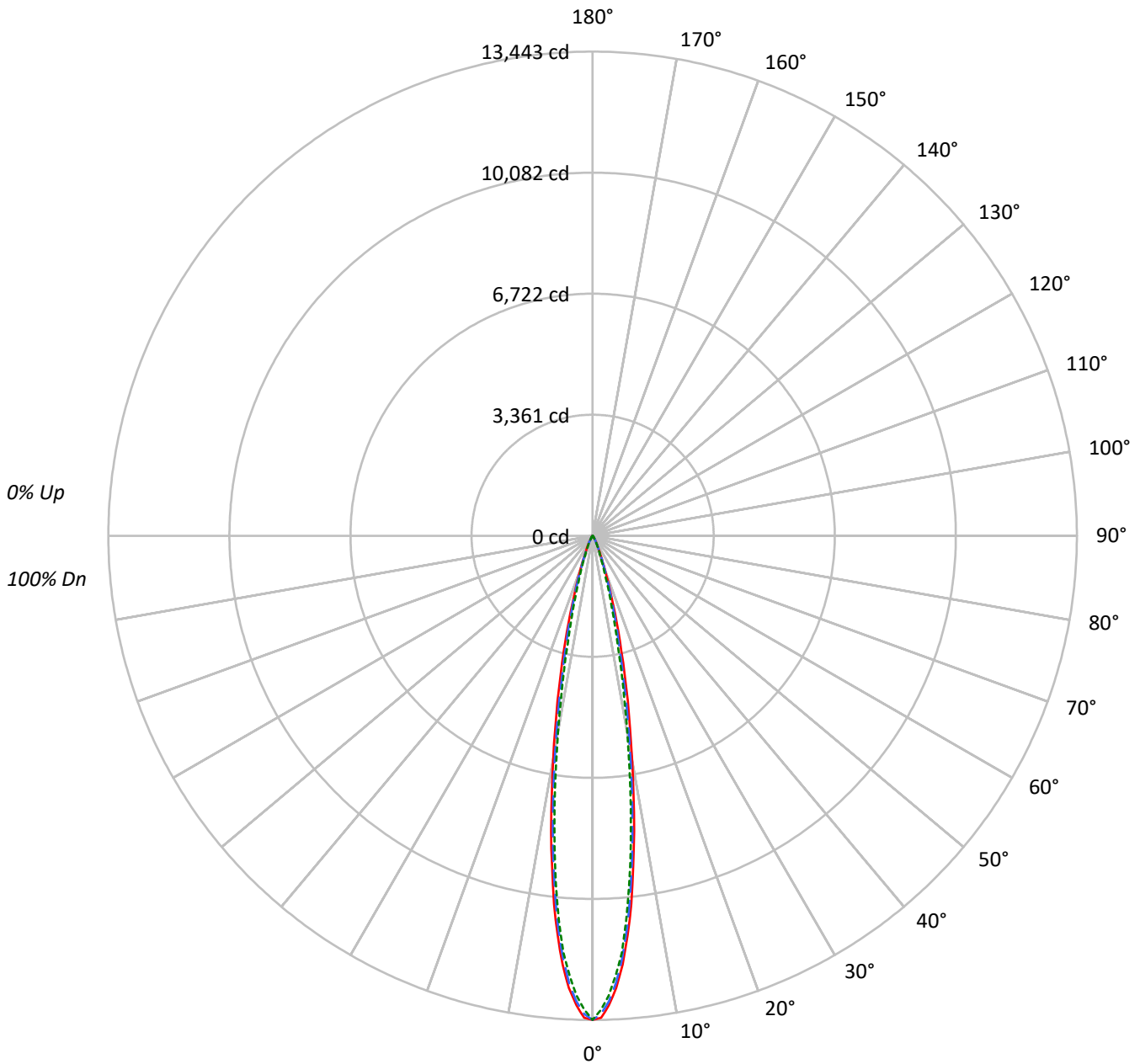
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6632164	6632164	6632164
5°	5518679	5417500	5308149
10°	3161037	2966259	2768375
15°	1405934	1248669	1046406
20°	510061	479558	379960
25°	195862	182852	157485
30°	84484	78560	69672
35°	39992	39992	33065
40°	20030	20674	16681
45°	11582	10884	10117
50°	7982	7138	7138
55°	6279	4473	5333
60°	5131	3059	4046
65°	3619	2452	3619
70°	3029	1442	3029
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.3	48.1
10°-20°	707.5	38.9
20°-30°	170.6	9.4
30°-40°	43.5	2.4
40°-50°	13.0	0.7
50°-60°	5.5	0.3
60°-70°	2.7	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°	1752.5	96.4
0°-40°	1796.0	98.8
0°-60°	1814.5	99.8
0°-90°	1818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13443	13443	13443	13443	13443	
5°	11143	11041	10939	10844	10718	901
15°	2753	2687	2445	2202	2049	785
25°	360	362	336	305	289	186
35°	66	67	66	60	55	46
45°	17	17	16	14	14	14
55°	7	6	5	5	6	6
65°	3	3	2	2	3	3
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°	13442.8	13442.8	13442.8	13442.8	13442.8
1°	13382.7	13289.4	13278.0	13336.1	13165.0
2°	13040.6	12974.2	12935.9	12970.1	12776.2
3°	12570.9	12506.6	12437.2	12438.2	12221.5
4°	11931.2	11880.4	11763.3	11728.0	11602.6
5°	11143.3	11040.6	10939.0	10843.6	10718.2
6°	10272.4	10139.7	9994.5	9852.5	9723.9
7°	9248.0	9159.9	8968.1	8774.2	8665.4
8°	8284.9	8142.8	7918.9	7676.3	7584.0
9°	7249.1	7147.5	6890.4	6608.4	6516.1
10°	6309.8	6204.1	5921.0	5606.9	5526.0
11°	5428.6	5329.0	5034.6	4704.9	4618.8
12°	4683.1	4542.1	4204.1	3918.0	3834.0
13°	3940.8	3844.4	3524.0	3241.0	3078.2
14°	3309.4	3229.6	2939.3	2690.4	2518.3
15°	2752.6	2687.3	2444.7	2202.1	2048.7
16°	2258.1	2217.7	2025.9	1791.6	1666.1
17°	1832.0	1794.7	1672.3	1456.7	1350.9
18°	1479.5	1474.3	1372.7	1186.1	1091.7
19°	1217.2	1215.1	1121.8	965.2	887.5
20°	971.5	984.9	913.4	776.5	723.7
21°	792.1	799.4	742.3	638.7	591.0
22°	644.9	650.1	612.7	527.7	501.8
23°	528.8	531.9	500.8	437.5	414.7
24°	435.4	437.5	409.5	364.9	345.2
25°	359.8	361.8	335.9	304.8	289.3
26°	298.6	300.7	277.9	256.1	240.5
27°	247.8	251.9	229.1	215.6	199.1
28°	211.5	212.5	191.8	183.5	168.0
29°	173.1	179.4	161.7	154.5	143.1
30°	148.3	151.4	137.9	132.7	122.3
32.5°	98.5	100.6	94.3	90.2	81.9
35°	66.4	67.4	66.4	60.1	54.9
37.5°	45.6	45.6	46.7	39.4	37.3
40°	31.1	31.1	32.1	27.0	25.9
42.5°	22.8	22.8	21.8	18.7	18.7
45°	16.6	16.6	15.6	14.5	14.5
47.5°	13.5	12.4	11.4	11.4	11.4
50°	10.4	10.4	9.3	8.3	9.3
52.5°	8.3	8.3	7.3	7.3	7.3
55°	7.3	6.2	5.2	5.2	6.2
57.5°	5.2	5.2	4.1	4.1	5.2
60°	5.2	4.1	3.1	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	1.0	1.0	2.1
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	0.0	1.0
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



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







62.5°	4.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	2.1	2.1	3.1



(END OF REPORT)