

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: P282122

Luminaire Tested: **LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282122
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: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 730.3 lumens
Efficiency: N/A
Efficacy: 104.3 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

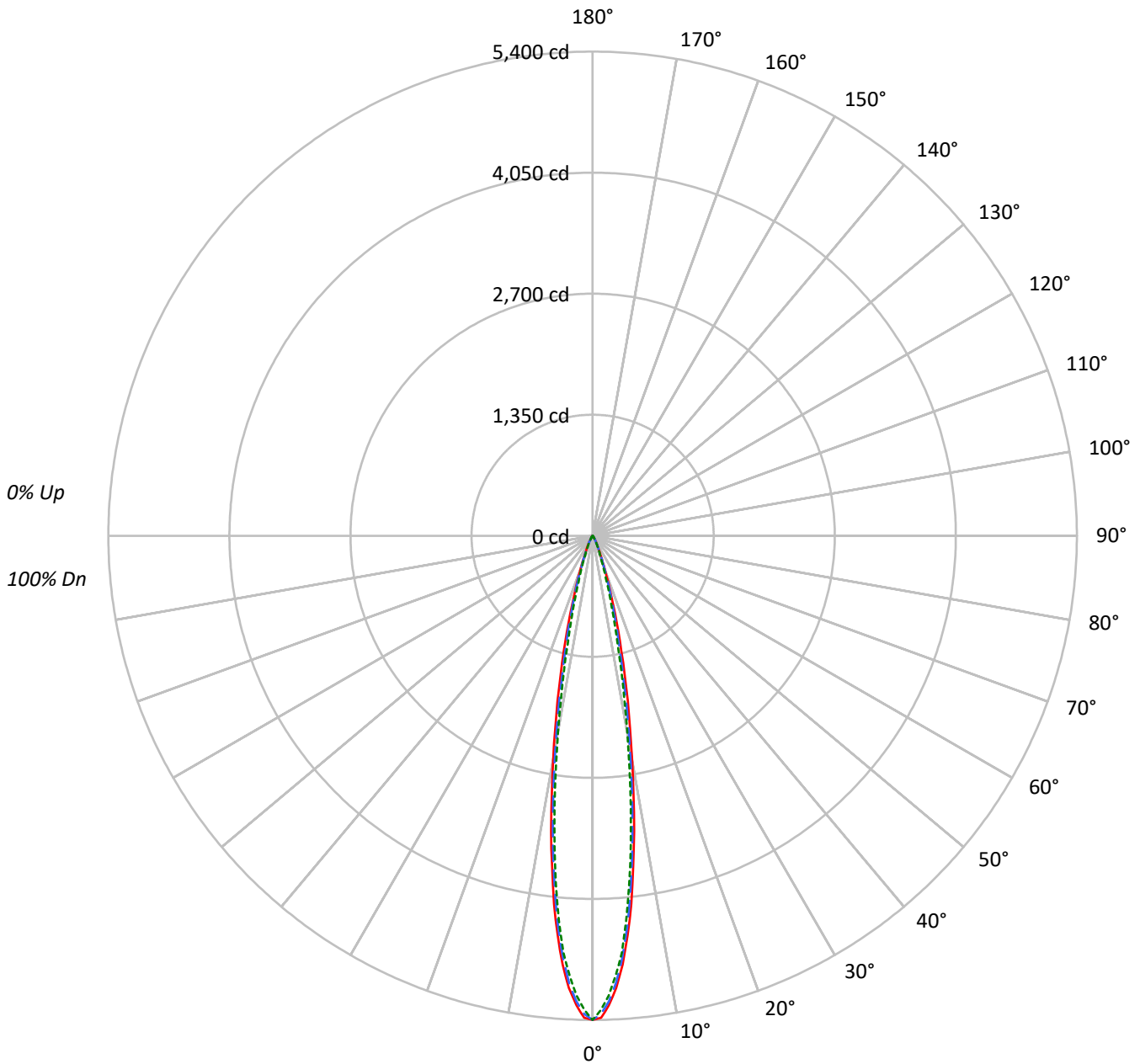
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	2664203	2664203	2664203
5°	2216921	2176261	2132333
10°	1269815	1191564	1112109
15°	564805	501623	420360
20°	204865	192632	152625
25°	78661	73435	63255
30°	33953	31561	27972
35°	16081	16081	13310
40°	8050	8308	6698
45°	4675	4326	4047
50°	3224	2840	2840
55°	2494	1806	2150
60°	2072	1184	1677
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	48.1
10°-20°	284.2	38.9
20°-30°	68.5	9.4
30°-40°	17.5	2.4
40°-50°	5.2	0.7
50°-60°	2.2	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	704.0	96.4
0°-40°	721.5	98.8
0°-60°	728.9	99.8
0°-90°	730.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5400	5400	5400	5400	5400	
5°	4476	4435	4394	4356	4306	362
15°	1106	1080	982	885	823	315
25°	144	145	135	122	116	75
35°	27	27	27	24	22	18
45°	7	7	6	6	6	6
55°	3	2	2	2	2	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	5400.1	5400.1	5400.1	5400.1	5400.1
1°	5376.0	5338.5	5333.9	5357.2	5288.5
2°	5238.5	5211.9	5196.5	5210.2	5132.3
3°	5049.9	5024.0	4996.1	4996.6	4909.5
4°	4792.9	4772.5	4725.4	4711.3	4660.9
5°	4476.4	4435.1	4394.3	4356.0	4305.6
6°	4126.5	4073.2	4014.9	3957.8	3906.2
7°	3715.0	3679.6	3602.6	3524.7	3481.0
8°	3328.1	3271.1	3181.1	3083.6	3046.6
9°	2912.1	2871.2	2768.0	2654.7	2617.6
10°	2534.7	2492.2	2378.5	2252.3	2219.9
11°	2180.7	2140.7	2022.4	1890.0	1855.4
12°	1881.3	1824.6	1688.8	1573.9	1540.2
13°	1583.1	1544.3	1415.6	1301.9	1236.5
14°	1329.4	1297.3	1180.7	1080.8	1011.6
15°	1105.8	1079.5	982.1	884.6	823.0
16°	907.1	890.9	813.8	719.7	669.3
17°	735.9	720.9	671.8	585.2	542.7
18°	594.3	592.2	551.4	476.5	438.6
19°	489.0	488.1	450.6	387.7	356.5
20°	390.2	395.7	366.9	311.9	290.7
21°	318.2	321.1	298.2	256.6	237.4
22°	259.1	261.1	246.1	212.0	201.6
23°	212.4	213.7	201.2	175.8	166.6
24°	174.9	175.8	164.5	146.6	138.7
25°	144.5	145.4	134.9	122.4	116.2
26°	119.9	120.8	111.6	102.9	96.6
27°	99.5	101.2	92.0	86.6	80.0
28°	85.0	85.4	77.0	73.7	67.5
29°	69.6	72.1	65.0	62.1	57.5
30°	59.6	60.8	55.4	53.3	49.1
32.5°	39.6	40.4	37.9	36.2	32.9
35°	26.7	27.1	26.7	24.2	22.1
37.5°	18.3	18.3	18.7	15.8	15.0
40°	12.5	12.5	12.9	10.8	10.4
42.5°	9.2	9.2	8.7	7.5	7.5
45°	6.7	6.7	6.2	5.8	5.8
47.5°	5.4	5.0	4.6	4.6	4.6
50°	4.2	4.2	3.7	3.3	3.7
52.5°	3.3	3.3	2.9	2.9	2.9
55°	2.9	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	1.7	1.2	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.7	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)