

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: P282760

Luminaire Tested: **LDA2B208050D010 EU2B20NFL258050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282760
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: LDA2B208050D010 EU2B20NFL258050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 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: 1775.2 lumens
Efficiency: N/A
Efficacy: 86.2 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

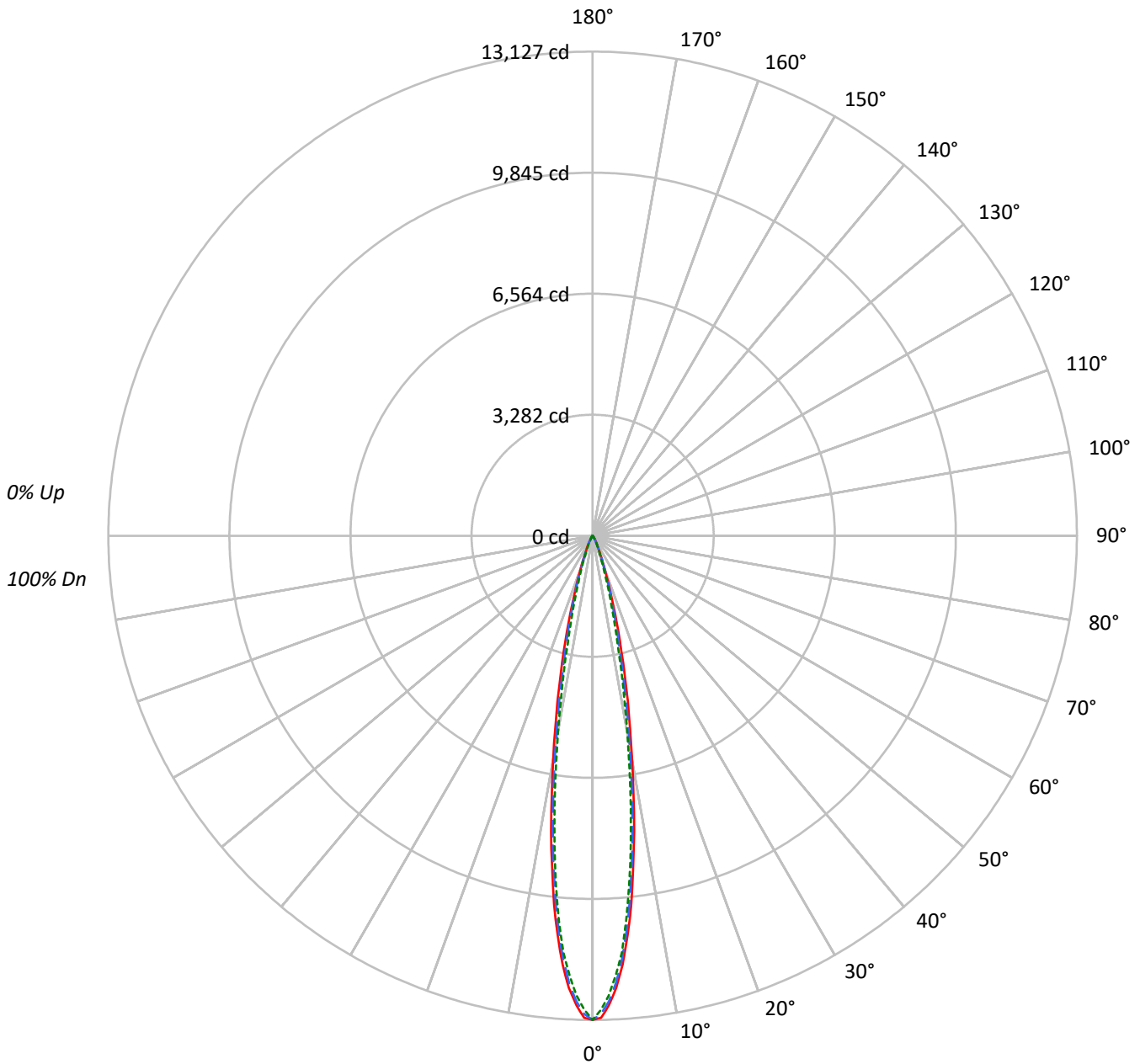
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6476212	6476212	6476212
5°	5388875	5290073	5183298
10°	3086693	2896524	2703249
15°	1372887	1219300	1021787
20°	498038	468269	370982
25°	191235	178552	153783
30°	82490	76680	68077
35°	39028	39028	32343
40°	19579	20223	16294
45°	11303	10605	9908
50°	7752	6985	6985
55°	6107	4387	5247
60°	5032	2960	3947
65°	3502	2335	3502
70°	2885	1442	2885
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.8	48.1
10°-20°	690.9	38.9
20°-30°	166.6	9.4
30°-40°	42.5	2.4
40°-50°	12.7	0.7
50°-60°	5.4	0.3
60°-70°	2.6	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°	1711.3	96.4
0°-40°	1753.7	98.8
0°-60°	1771.8	99.8
0°-90°	1775.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1775.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13127	13127	13127	13127	13127	
5°	10881	10781	10682	10589	10466	880
15°	2688	2624	2387	2150	2000	766
25°	351	353	328	298	282	181
35°	65	66	65	59	54	45
45°	16	16	15	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°	13126.7	13126.7	13126.7	13126.7	13126.7
1°	13067.9	12976.8	12965.7	13022.4	12855.3
2°	12733.9	12669.1	12631.6	12665.0	12475.7
3°	12275.2	12212.5	12144.6	12145.7	11934.1
4°	11650.6	11601.0	11486.6	11452.2	11329.7
5°	10881.2	10781.0	10681.7	10588.6	10466.1
6°	10030.8	9901.2	9759.5	9620.8	9495.2
7°	9030.5	8944.5	8757.2	8567.9	8461.6
8°	8090.0	7951.3	7732.6	7495.7	7405.6
9°	7078.6	6979.4	6728.4	6453.0	6362.9
10°	6161.4	6058.1	5781.8	5475.0	5396.0
11°	5300.9	5203.7	4916.2	4594.2	4510.2
12°	4573.0	4435.3	4105.2	3825.8	3743.8
13°	3848.1	3753.9	3441.1	3164.7	3005.8
14°	3231.6	3153.6	2870.1	2627.2	2459.1
15°	2687.9	2624.1	2387.2	2150.3	2000.5
16°	2205.0	2165.5	1978.2	1749.4	1626.9
17°	1788.9	1752.4	1633.0	1422.4	1319.1
18°	1444.7	1439.6	1340.4	1158.2	1066.0
19°	1188.5	1186.5	1095.4	942.5	866.6
20°	948.6	961.8	891.9	758.3	706.6
21°	773.5	780.6	724.9	623.6	577.1
22°	629.7	634.8	598.3	515.3	490.0
23°	516.3	519.4	489.0	427.2	405.0
24°	425.2	427.2	399.9	356.4	337.1
25°	351.3	353.3	328.0	297.6	282.5
26°	291.6	293.6	271.3	250.1	234.9
27°	242.0	246.0	223.7	210.6	194.4
28°	206.5	207.5	187.3	179.2	164.0
29°	169.1	175.1	157.9	150.8	139.7
30°	144.8	147.8	134.6	129.6	119.5
32.5°	96.2	98.2	92.1	88.1	80.0
35°	64.8	65.8	64.8	58.7	53.7
37.5°	44.5	44.5	45.6	38.5	36.4
40°	30.4	30.4	31.4	26.3	25.3
42.5°	22.3	22.3	21.3	18.2	18.2
45°	16.2	16.2	15.2	14.2	14.2
47.5°	13.2	12.1	11.1	11.1	11.1
50°	10.1	10.1	9.1	8.1	9.1
52.5°	8.1	8.1	7.1	7.1	7.1
55°	7.1	6.1	5.1	5.1	6.1
57.5°	5.1	5.1	4.0	4.0	5.1
60°	5.1	4.0	3.0	4.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	1.0	1.0	2.0
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°	4.0	3.0	3.0	3.0	3.0
65°	3.0	3.0	2.0	2.0	3.0



(END OF REPORT)