

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: P282758

Luminaire Tested: **LDA2B208050D010 EU2B20NFL258050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282758
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 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: 1770.9 lumens
Efficiency: N/A
Efficacy: 86.0 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

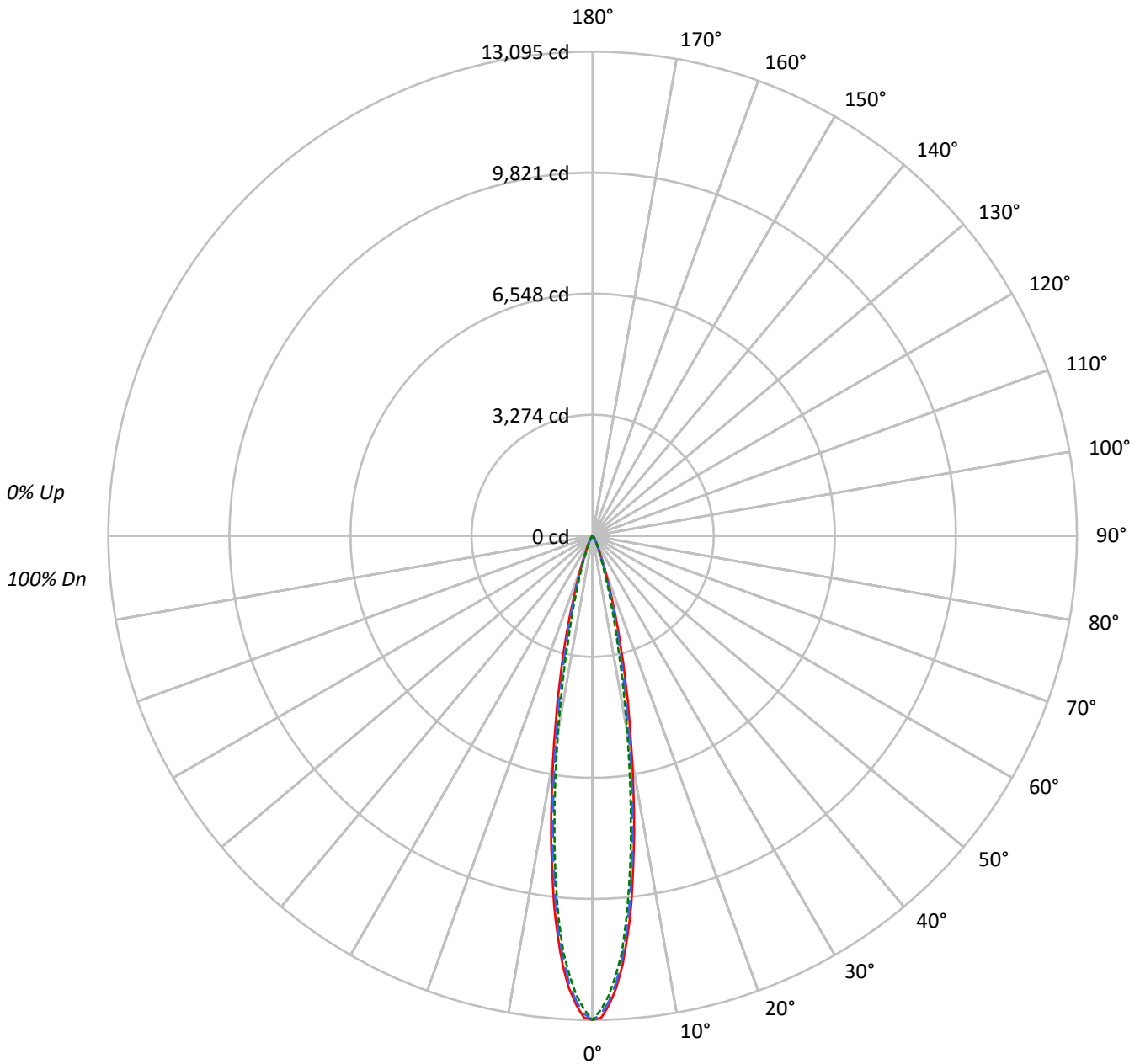
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6460375	6460375	6460375
5°	5375701	5277197	5170669
10°	3079179	2889460	2696686
15°	1369516	1216337	1019284
20°	496831	467114	370090
25°	190745	178116	153402
30°	82263	76509	67906
35°	38908	38908	32222
40°	19514	20158	16230
45°	11303	10536	9838
50°	7752	6985	6985
55°	6107	4301	5247
60°	4934	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°	851.7	48.1
10°-20°	689.2	38.9
20°-30°	166.2	9.4
30°-40°	42.4	2.4
40°-50°	12.6	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°	1707.1	96.4
0°-40°	1749.4	98.8
0°-60°	1767.5	99.8
0°-90°	1770.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13095	13095	13095	13095	13095	
5°	10855	10755	10656	10563	10441	878
15°	2681	2618	2381	2145	1996	765
25°	350	352	327	297	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°	13094.6	13094.6	13094.6	13094.6	13094.6
1°	13036.1	12945.2	12934.0	12990.6	12824.0
2°	12702.8	12638.1	12600.8	12634.1	12445.2
3°	12245.3	12182.7	12115.0	12116.0	11904.9
4°	11622.2	11572.7	11458.6	11424.2	11302.0
5°	10854.6	10754.6	10655.7	10562.8	10440.6
6°	10006.3	9877.0	9735.6	9597.3	9472.0
7°	9008.5	8922.6	8735.8	8547.0	8440.9
8°	8070.3	7931.9	7713.8	7477.5	7387.6
9°	7061.4	6962.4	6711.9	6437.2	6347.3
10°	6146.4	6043.4	5767.7	5461.6	5382.9
11°	5287.9	5191.0	4904.2	4583.0	4499.2
12°	4561.8	4424.5	4095.2	3816.5	3734.7
13°	3838.7	3744.8	3432.7	3157.0	2998.5
14°	3223.7	3145.9	2863.1	2620.7	2453.1
15°	2681.3	2617.7	2381.4	2145.1	1995.6
16°	2199.6	2160.2	1973.4	1745.1	1622.9
17°	1784.5	1748.2	1629.0	1418.9	1315.9
18°	1441.2	1436.1	1337.1	1155.3	1063.4
19°	1185.6	1183.6	1092.7	940.2	864.5
20°	946.3	959.4	889.7	756.4	704.9
21°	771.6	778.6	723.1	622.1	575.7
22°	628.2	633.2	596.9	514.0	488.8
23°	515.1	518.1	487.8	426.2	404.0
24°	424.2	426.2	398.9	355.5	336.3
25°	350.4	352.5	327.2	296.9	281.8
26°	290.9	292.9	270.7	249.5	234.3
27°	241.4	245.4	223.2	210.1	193.9
28°	206.0	207.0	186.8	178.8	163.6
29°	168.7	174.7	157.5	150.5	139.4
30°	144.4	147.4	134.3	129.3	119.2
32.5°	95.9	98.0	91.9	87.9	79.8
35°	64.6	65.6	64.6	58.6	53.5
37.5°	44.4	44.4	45.4	38.4	36.4
40°	30.3	30.3	31.3	26.3	25.2
42.5°	22.2	22.2	21.2	18.2	18.2
45°	16.2	16.2	15.1	14.1	14.1
47.5°	13.1	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	5.0	5.0	6.1
57.5°	5.0	5.0	4.0	4.0	5.0
60°	5.0	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)