

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: P282780

Luminaire Tested: **LDA2B209727D010 EU2B20NFL259727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282780
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: LDA2B209727D010 EU2B20NFL259727 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1161.7 lumens
Efficiency: N/A
Efficacy: 56.4 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

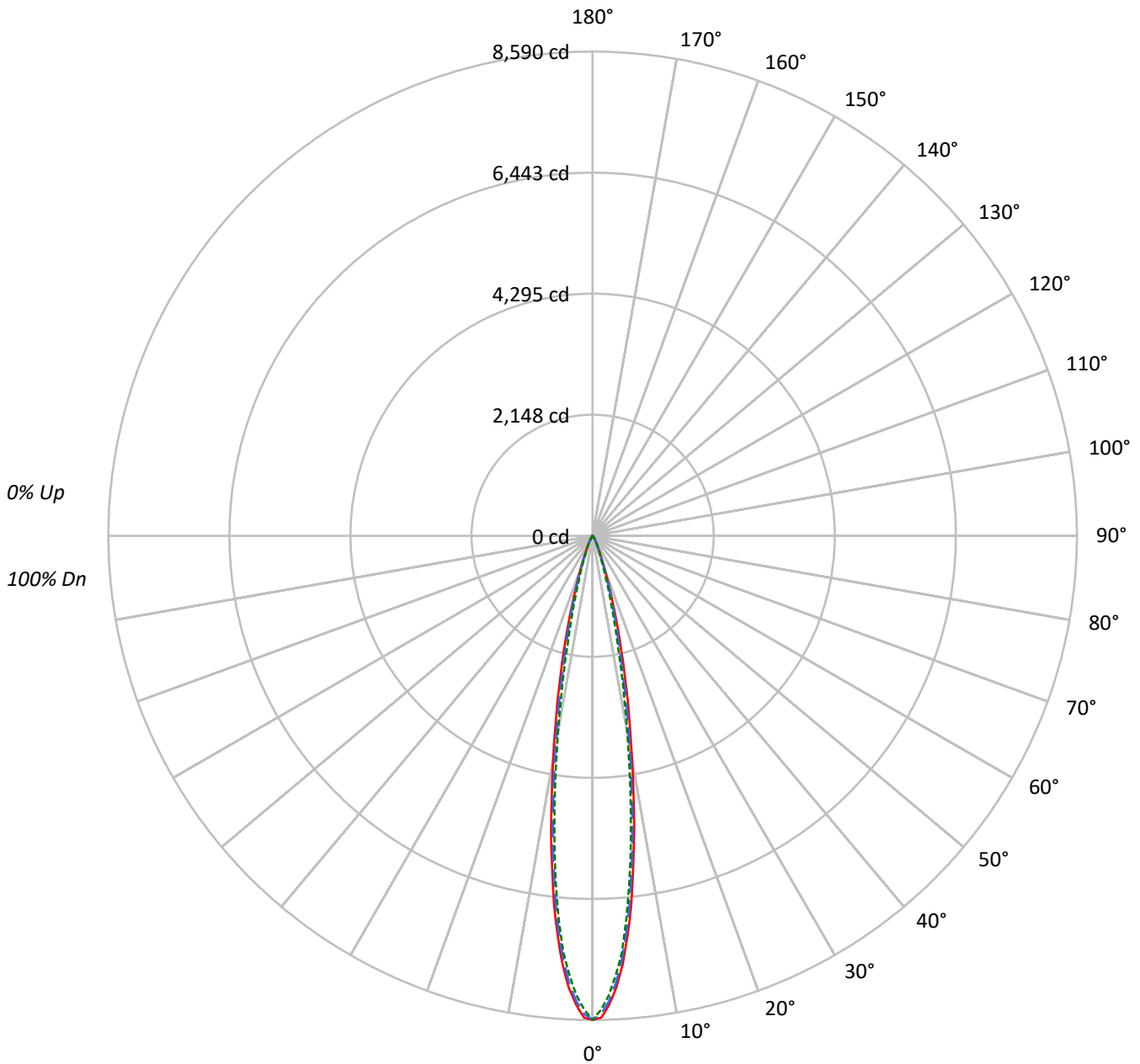
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4237731	4237731	4237731
5°	3526253	3461623	3391744
10°	2019822	1895330	1768884
15°	898335	797867	668592
20°	325883	306404	242771
25°	125149	116821	100599
30°	53949	50189	44549
35°	25537	25537	21140
40°	12816	13203	10691
45°	7396	6907	6489
50°	5066	4605	4605
55°	3957	2838	3441
60°	3256	1973	2565
65°	2335	1518	2335
70°	1875	1010	1875
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.7	48.1
10°-20°	452.1	38.9
20°-30°	109.0	9.4
30°-40°	27.8	2.4
40°-50°	8.3	0.7
50°-60°	3.5	0.3
60°-70°	1.7	0.1
70°-80°	0.6	0.1
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°	1119.8	96.4
0°-40°	1147.6	98.8
0°-60°	1159.4	99.8
0°-90°	1161.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8590	8590	8590	8590	8590	
5°	7120	7055	6990	6929	6849	576
15°	1759	1717	1562	1407	1309	502
25°	230	231	215	195	185	119
35°	42	43	42	38	35	29
45°	11	11	10	9	9	9
55°	5	4	3	3	4	4
65°	2	2	1	1	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°	8589.5	8589.5	8589.5	8589.5	8589.5
1°	8551.1	8491.5	8484.2	8521.3	8412.0
2°	8332.5	8290.1	8265.6	8287.4	8163.6
3°	8032.4	7991.3	7946.9	7947.6	7809.1
4°	7623.6	7591.2	7516.3	7493.8	7413.6
5°	7120.2	7054.6	6989.7	6928.7	6848.6
6°	6563.7	6478.9	6386.2	6295.4	6213.3
7°	5909.2	5852.9	5730.3	5606.4	5536.9
8°	5293.8	5203.0	5059.9	4904.9	4845.9
9°	4632.0	4567.0	4402.7	4222.6	4163.6
10°	4031.8	3964.2	3783.3	3582.6	3530.9
11°	3468.7	3405.1	3216.9	3006.3	2951.3
12°	2992.4	2902.3	2686.3	2503.5	2449.8
13°	2518.0	2456.4	2251.7	2070.9	1966.9
14°	2114.6	2063.6	1878.1	1719.1	1609.1
15°	1758.8	1717.1	1562.1	1407.1	1309.0
16°	1442.8	1417.0	1294.5	1144.7	1064.6
17°	1170.6	1146.7	1068.6	930.8	863.2
18°	945.3	942.0	877.1	757.9	697.6
19°	777.7	776.4	716.8	616.8	567.1
20°	620.7	629.3	583.6	496.2	462.4
21°	506.1	510.8	474.3	408.1	377.6
22°	412.1	415.4	391.5	337.2	320.6
23°	337.9	339.8	320.0	279.6	265.0
24°	278.2	279.6	261.7	233.2	220.6
25°	229.9	231.2	214.6	194.8	184.8
26°	190.8	192.1	177.5	163.6	153.7
27°	158.3	161.0	146.4	137.8	127.2
28°	135.1	135.8	122.6	117.3	107.3
29°	110.6	114.6	103.3	98.7	91.4
30°	94.7	96.7	88.1	84.8	78.2
32.5°	62.9	64.3	60.3	57.6	52.3
35°	42.4	43.1	42.4	38.4	35.1
37.5°	29.1	29.1	29.8	25.2	23.8
40°	19.9	19.9	20.5	17.2	16.6
42.5°	14.6	14.6	13.9	11.9	11.9
45°	10.6	10.6	9.9	9.3	9.3
47.5°	8.6	7.9	7.3	7.3	7.3
50°	6.6	6.6	6.0	5.3	6.0
52.5°	5.3	5.3	4.6	4.6	4.6
55°	4.6	4.0	3.3	3.3	4.0
57.5°	3.3	3.3	2.6	2.6	3.3
60°	3.3	2.6	2.0	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.7	0.7	1.3
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°	2.6	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.3	1.3	2.0



(END OF REPORT)