

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: P282677

Luminaire Tested: **LDA2B109024D010 EU2B10NFL259024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282677
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: LDA2B109024D010 EU2B10NFL259024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 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: 656.5 lumens
Efficiency: N/A
Efficacy: 65.6 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

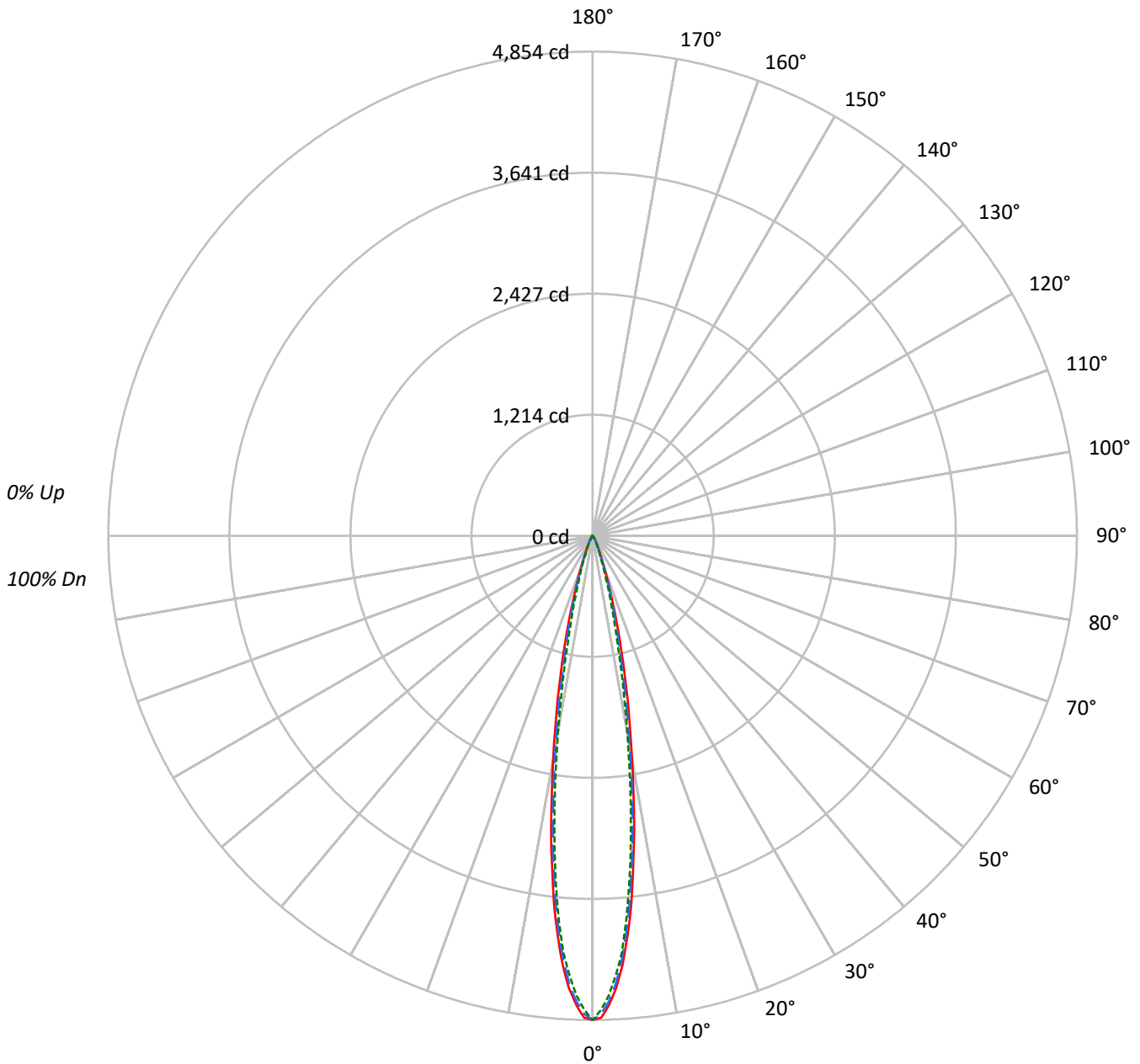
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2394975	2394975	2394975
5°	1992871	1956322	1916851
10°	1141516	1071180	999691
15°	507701	450904	377864
20°	184179	173153	137189
25°	70713	66031	56886
30°	30478	28370	25180
35°	14455	14455	11925
40°	7213	7471	6054
45°	4186	3907	3628
50°	2840	2610	2610
55°	2236	1634	1892
60°	1875	1085	1480
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	48.1
10°-20°	255.5	38.9
20°-30°	61.6	9.4
30°-40°	15.7	2.4
40°-50°	4.7	0.7
50°-60°	2.0	0.3
60°-70°	0.9	0.1
70°-80°	0.3	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°	632.8	96.4
0°-40°	648.6	98.8
0°-60°	655.2	99.8
0°-90°	656.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4854	4854	4854	4854	4854	
5°	4024	3987	3950	3916	3870	325
15°	994	970	883	795	740	283
25°	130	131	121	110	104	67
35°	24	24	24	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
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°	4854.4	4854.4	4854.4	4854.4	4854.4
1°	4832.7	4799.0	4794.8	4815.8	4754.0
2°	4709.1	4685.1	4671.3	4683.6	4613.6
3°	4539.5	4516.3	4491.2	4491.6	4413.3
4°	4308.5	4290.2	4247.9	4235.1	4189.8
5°	4024.0	3986.9	3950.2	3915.8	3870.5
6°	3709.5	3661.6	3609.1	3557.9	3511.4
7°	3339.6	3307.8	3238.5	3168.5	3129.2
8°	2991.8	2940.5	2859.6	2772.0	2738.7
9°	2617.8	2581.1	2488.2	2386.4	2353.1
10°	2278.6	2240.4	2138.2	2024.7	1995.5
11°	1960.3	1924.4	1818.0	1699.0	1667.9
12°	1691.1	1640.2	1518.2	1414.8	1384.5
13°	1423.1	1388.2	1272.6	1170.4	1111.6
14°	1195.1	1166.2	1061.4	971.5	909.4
15°	994.0	970.4	882.8	795.2	739.8
16°	815.4	800.8	731.6	647.0	601.6
17°	661.6	648.1	603.9	526.0	487.8
18°	534.3	532.4	495.7	428.3	394.2
19°	439.5	438.8	405.1	348.6	320.5
20°	350.8	355.7	329.8	280.4	261.3
21°	286.0	288.7	268.1	230.6	213.4
22°	232.9	234.7	221.3	190.6	181.2
23°	190.9	192.1	180.8	158.0	149.8
24°	157.2	158.0	147.9	131.8	124.7
25°	129.9	130.7	121.3	110.1	104.5
26°	107.8	108.6	100.3	92.5	86.9
27°	89.5	91.0	82.7	77.9	71.9
28°	76.4	76.8	69.3	66.3	60.7
29°	62.5	64.8	58.4	55.8	51.7
30°	53.5	54.7	49.8	47.9	44.2
32.5°	35.6	36.3	34.1	32.6	29.6
35°	24.0	24.3	24.0	21.7	19.8
37.5°	16.5	16.5	16.8	14.2	13.5
40°	11.2	11.2	11.6	9.7	9.4
42.5°	8.2	8.2	7.9	6.7	6.7
45°	6.0	6.0	5.6	5.2	5.2
47.5°	4.9	4.5	4.1	4.1	4.1
50°	3.7	3.7	3.4	3.0	3.4
52.5°	3.0	3.0	2.6	2.6	2.6
55°	2.6	2.2	1.9	1.9	2.2
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)