

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: P282719

Luminaire Tested: **LDA2B159024D010 EU2B15NFL259024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282719
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: LDA2B159024D010 EU2B15NFL259024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 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: 873.6 lumens
Efficiency: N/A
Efficacy: 62.0 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

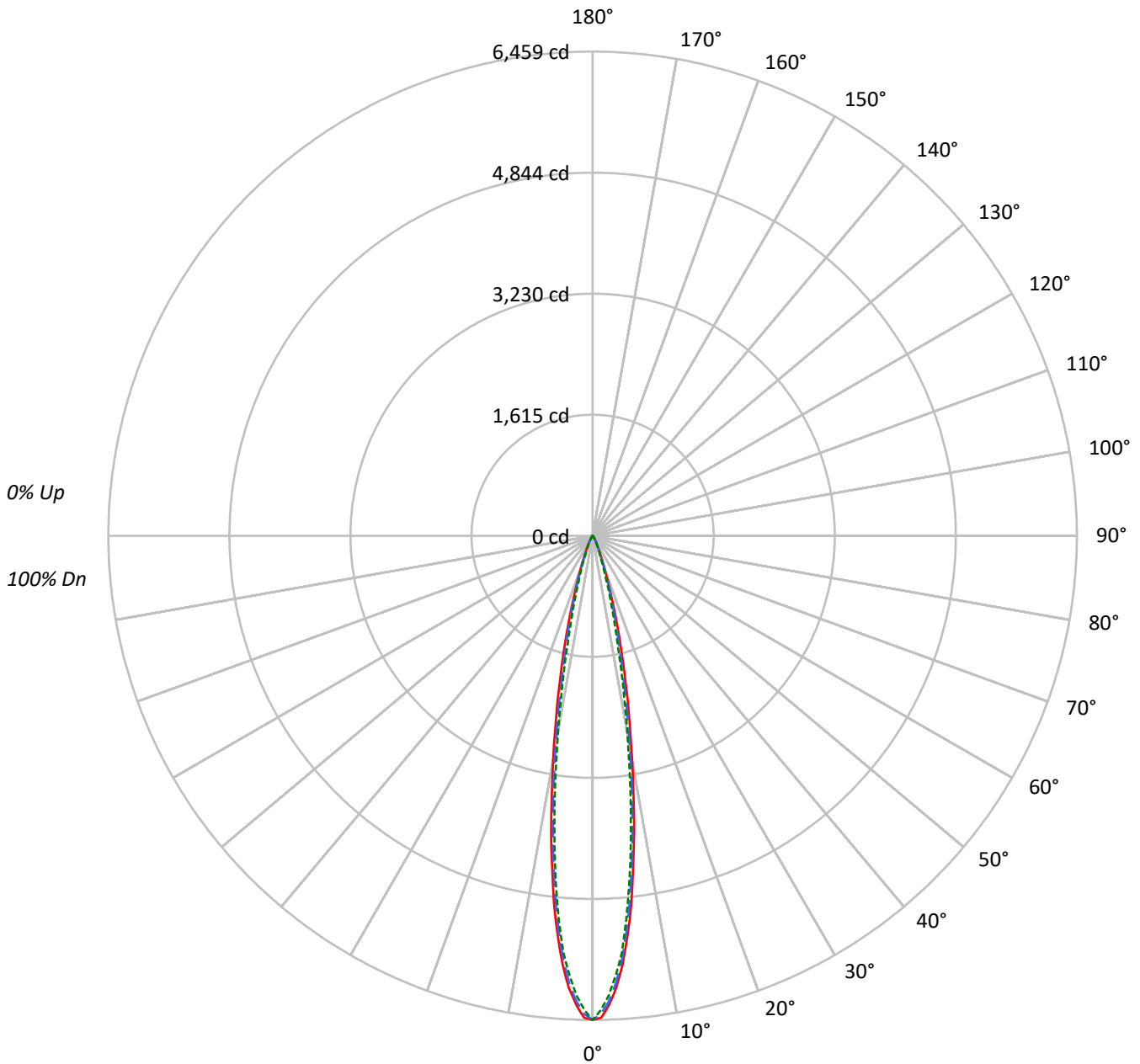
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3186722	3186722	3186722
5°	2651698	2603064	2550519
10°	1518849	1425267	1330183
15°	675539	599996	502798
20°	245082	230433	182551
25°	94121	87860	75667
30°	40562	37770	33497
35°	19213	19213	15900
40°	9596	9918	8050
45°	5582	5233	4884
50°	3838	3454	3454
55°	3011	2150	2580
60°	2467	1480	1973
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	48.1
10°-20°	340.0	38.9
20°-30°	82.0	9.4
30°-40°	20.9	2.4
40°-50°	6.2	0.7
50°-60°	2.7	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	842.1	96.4
0°-40°	862.9	98.8
0°-60°	871.9	99.8
0°-90°	873.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	873.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6459	6459	6459	6459	6459	
5°	5354	5305	5256	5210	5150	433
15°	1323	1291	1175	1058	984	377
25°	173	174	161	146	139	89
35°	32	32	32	29	26	22
45°	8	8	8	7	7	7
55°	4	3	2	2	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6459.2	6459.2	6459.2	6459.2	6459.2
1°	6430.3	6385.5	6380.0	6407.9	6325.7
2°	6265.9	6234.0	6215.6	6232.0	6138.9
3°	6040.2	6009.4	5976.0	5976.5	5872.4
4°	5732.9	5708.5	5652.2	5635.2	5575.0
5°	5354.3	5304.9	5256.1	5210.3	5150.0
6°	4935.8	4872.0	4802.3	4734.1	4672.3
7°	4443.6	4401.3	4309.1	4216.0	4163.7
8°	3980.8	3912.6	3805.0	3688.4	3644.1
9°	3483.2	3434.3	3310.8	3175.3	3131.0
10°	3031.8	2981.0	2845.0	2694.1	2655.2
11°	2608.4	2560.6	2419.1	2260.7	2219.3
12°	2250.2	2182.5	2020.1	1882.6	1842.2
13°	1893.5	1847.2	1693.3	1557.3	1479.0
14°	1590.1	1551.8	1412.3	1292.7	1210.0
15°	1322.6	1291.2	1174.7	1058.1	984.4
16°	1085.0	1065.6	973.4	860.8	800.5
17°	880.3	862.3	803.5	699.9	649.1
18°	710.9	708.4	659.6	569.9	524.6
19°	584.8	583.8	539.0	463.8	426.4
20°	466.8	473.3	438.9	373.1	347.7
21°	380.6	384.1	356.7	306.9	284.0
22°	309.9	312.3	294.4	253.6	241.1
23°	254.1	255.6	240.6	210.2	199.3
24°	209.2	210.2	196.8	175.4	165.9
25°	172.9	173.9	161.4	146.5	139.0
26°	143.5	144.5	133.5	123.0	115.6
27°	119.1	121.1	110.1	103.6	95.6
28°	101.6	102.1	92.2	88.2	80.7
29°	83.2	86.2	77.7	74.2	68.7
30°	71.2	72.7	66.3	63.8	58.8
32.5°	47.3	48.3	45.3	43.3	39.4
35°	31.9	32.4	31.9	28.9	26.4
37.5°	21.9	21.9	22.4	18.9	17.9
40°	14.9	14.9	15.4	13.0	12.5
42.5°	11.0	11.0	10.5	9.0	9.0
45°	8.0	8.0	7.5	7.0	7.0
47.5°	6.5	6.0	5.5	5.5	5.5
50°	5.0	5.0	4.5	4.0	4.5
52.5°	4.0	4.0	3.5	3.5	3.5
55°	3.5	3.0	2.5	2.5	3.0
57.5°	2.5	2.5	2.0	2.0	2.5
60°	2.5	2.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)