

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: P282722

Luminaire Tested: **LDA2B159027D010 EU2B15NFL259027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282722
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: LDA2B159027D010 EU2B15NFL259027 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: 941.2 lumens
Efficiency: N/A
Efficacy: 66.8 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

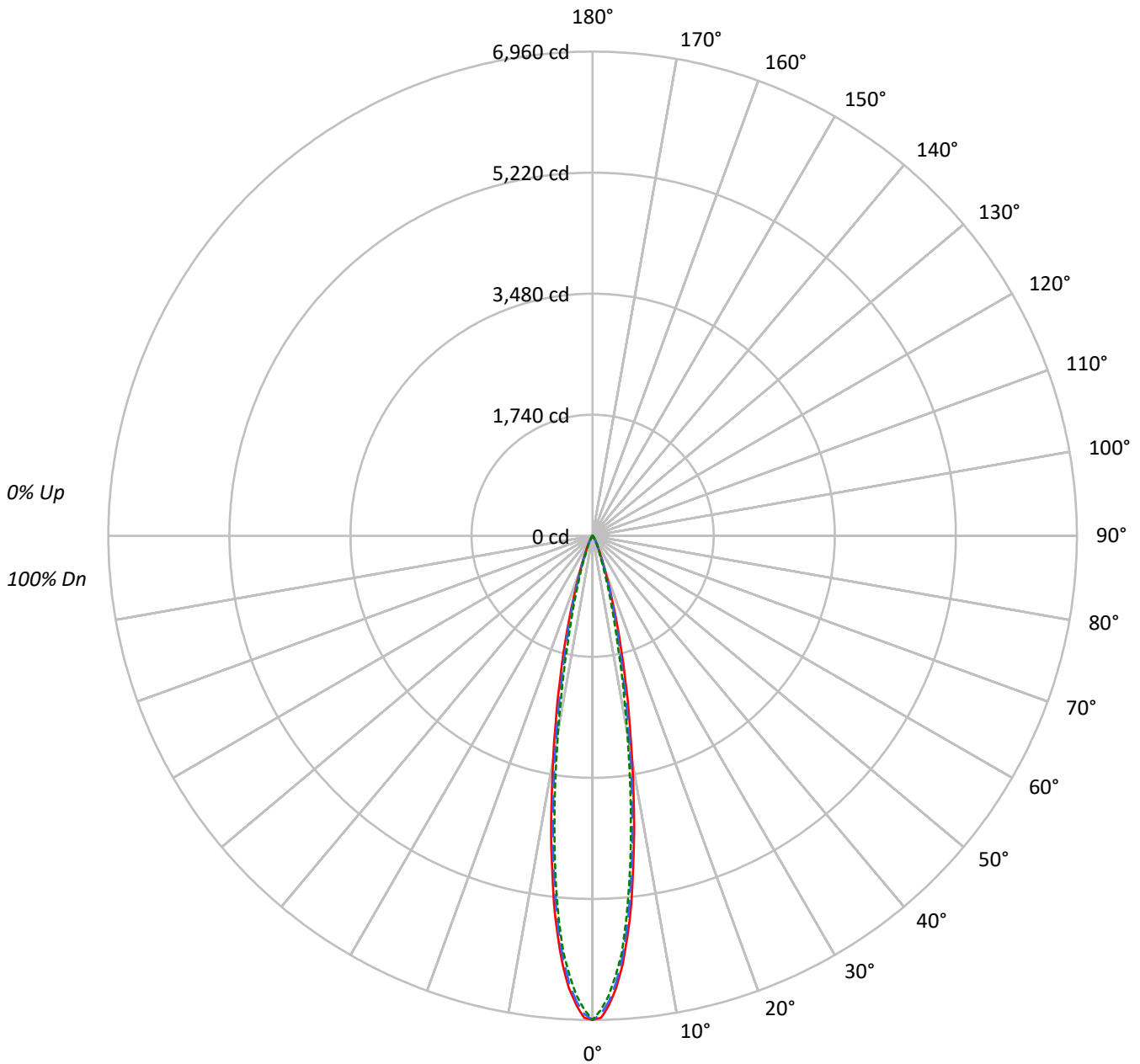
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3433650	3433650	3433650
5°	2857175	2804778	2748172
10°	1636578	1535732	1433283
15°	727892	646476	541769
20°	264087	248284	196727
25°	101415	94665	81546
30°	43752	40676	36061
35°	20719	20719	17105
40°	10369	10691	8630
45°	6000	5652	5233
50°	4145	3684	3684
55°	3269	2322	2752
60°	2664	1579	2072
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	48.1
10°-20°	366.3	38.9
20°-30°	88.3	9.4
30°-40°	22.5	2.4
40°-50°	6.7	0.7
50°-60°	2.9	0.3
60°-70°	1.4	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°	907.3	96.4
0°-40°	929.8	98.8
0°-60°	939.4	99.8
0°-90°	941.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6960	6960	6960	6960	6960	
5°	5769	5716	5663	5614	5549	467
15°	1425	1391	1266	1140	1061	406
25°	186	187	174	158	150	96
35°	34	35	34	31	28	24
45°	9	9	8	8	8	7
55°	4	3	3	3	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°	6959.7	6959.7	6959.7	6959.7	6959.7
1°	6928.6	6880.3	6874.4	6904.5	6815.9
2°	6751.5	6717.1	6697.3	6715.0	6614.6
3°	6508.3	6475.0	6439.1	6439.6	6327.4
4°	6177.1	6150.8	6090.2	6071.9	6007.0
5°	5769.2	5716.0	5663.4	5614.1	5549.1
6°	5318.3	5249.6	5174.4	5100.9	5034.4
7°	4788.0	4742.3	4643.0	4542.7	4486.3
8°	4289.3	4215.8	4099.8	3974.2	3926.5
9°	3753.1	3700.5	3567.4	3421.4	3373.6
10°	3266.8	3212.0	3065.5	2902.8	2861.0
11°	2810.5	2759.0	2606.5	2435.9	2391.3
12°	2424.6	2351.6	2176.6	2028.4	1985.0
13°	2040.3	1990.3	1824.5	1677.9	1593.7
14°	1713.4	1672.0	1521.7	1392.9	1303.8
15°	1425.1	1391.3	1265.7	1140.1	1060.7
16°	1169.1	1148.1	1048.8	927.5	862.6
17°	948.5	929.1	865.8	754.2	699.4
18°	766.0	763.3	710.7	614.1	565.2
19°	630.2	629.1	580.8	499.7	459.5
20°	503.0	509.9	472.9	402.0	374.7
21°	410.1	413.8	384.3	330.6	306.0
22°	333.9	336.6	317.2	273.2	259.8
23°	273.8	275.4	259.3	226.5	214.7
24°	225.4	226.5	212.0	188.9	178.7
25°	186.3	187.3	173.9	157.8	149.8
26°	154.6	155.7	143.9	132.6	124.5
27°	128.3	130.4	118.6	111.6	103.1
28°	109.5	110.0	99.3	95.0	87.0
29°	89.6	92.9	83.7	80.0	74.1
30°	76.8	78.4	71.4	68.7	63.3
32.5°	51.0	52.1	48.8	46.7	42.4
35°	34.4	34.9	34.4	31.1	28.4
37.5°	23.6	23.6	24.2	20.4	19.3
40°	16.1	16.1	16.6	14.0	13.4
42.5°	11.8	11.8	11.3	9.7	9.7
45°	8.6	8.6	8.1	7.5	7.5
47.5°	7.0	6.4	5.9	5.9	5.9
50°	5.4	5.4	4.8	4.3	4.8
52.5°	4.3	4.3	3.8	3.8	3.8
55°	3.8	3.2	2.7	2.7	3.2
57.5°	2.7	2.7	2.1	2.1	2.7
60°	2.7	2.1	1.6	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
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°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)