

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: P282762

Luminaire Tested: **LDA2B209024D010 EU2B20NFL259024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282762  
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: LDA2B209024D010 EU2B20NFL259024 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: 1198.2 lumens  
Efficiency: N/A  
Efficacy: 58.2 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

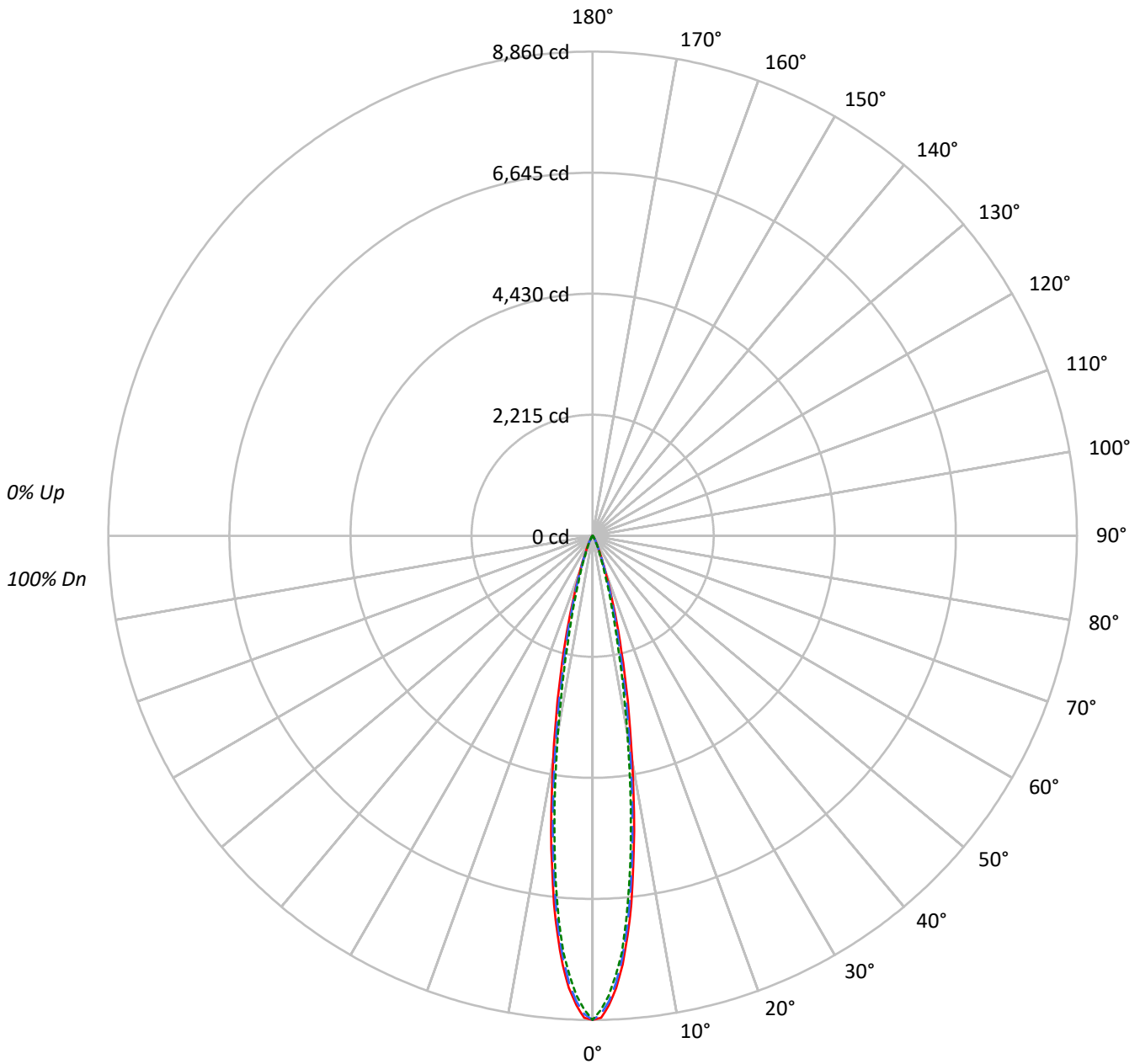
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4371037	4371037	4371037
5°	3637188	3570479	3498420
10°	2083345	1954946	1824543
15°	926631	822946	689636
20°	336173	316065	250384
25°	129069	120522	103756
30°	55658	51784	45917
35°	26320	26320	21803
40°	13203	13654	11013
45°	7605	7117	6698
50°	5219	4682	4682
55°	4129	2925	3527
60°	3355	1973	2664
65°	2335	1634	2335
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.2	48.1
10°-20°	466.3	38.9
20°-30°	112.4	9.4
30°-40°	28.7	2.4
40°-50°	8.5	0.7
50°-60°	3.6	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1155.0	96.4
0°-40°	1183.7	98.8
0°-60°	1195.8	99.8
0°-90°	1198.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8860	8860	8860	8860	8860	
5°	7344	7276	7210	7147	7064	594
15°	1814	1771	1611	1451	1350	517
25°	237	238	221	201	191	122
35°	44	44	44	40	36	30
45°	11	11	10	10	10	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°	8859.7	8859.7	8859.7	8859.7	8859.7
1°	8820.1	8758.6	8751.1	8789.3	8676.6
2°	8594.6	8550.9	8525.6	8548.1	8420.4
3°	8285.1	8242.7	8196.9	8197.6	8054.8
4°	7863.5	7830.0	7752.8	7729.5	7646.9
5°	7344.2	7276.5	7209.5	7146.7	7064.0
6°	6770.2	6682.7	6587.1	6493.4	6408.7
7°	6095.1	6037.0	5910.6	5782.8	5711.1
8°	5460.3	5366.7	5219.1	5059.2	4998.4
9°	4777.7	4710.7	4541.2	4355.4	4294.6
10°	4158.6	4088.9	3902.3	3695.3	3642.0
11°	3577.8	3512.2	3318.1	3100.8	3044.1
12°	3086.5	2993.6	2770.8	2582.2	2526.9
13°	2597.2	2533.7	2322.6	2136.0	2028.7
14°	2181.1	2128.5	1937.2	1773.2	1659.7
15°	1814.2	1771.1	1611.2	1451.3	1350.2
16°	1488.2	1461.6	1335.2	1180.7	1098.1
17°	1207.4	1182.8	1102.2	960.0	890.3
18°	975.1	971.7	904.7	781.7	719.5
19°	802.2	800.8	739.3	636.2	584.9
20°	640.3	649.1	602.0	511.8	476.9
21°	522.0	526.8	489.2	420.9	389.5
22°	425.0	428.4	403.8	347.8	330.7
23°	348.5	350.5	330.0	288.4	273.3
24°	287.0	288.4	269.9	240.5	227.5
25°	237.1	238.5	221.4	200.9	190.6
26°	196.8	198.2	183.1	168.8	158.5
27°	163.3	166.0	151.0	142.1	131.2
28°	139.4	140.1	126.4	120.9	110.7
29°	114.1	118.2	106.6	101.8	94.3
30°	97.7	99.8	90.9	87.5	80.6
32.5°	64.9	66.3	62.2	59.4	54.0
35°	43.7	44.4	43.7	39.6	36.2
37.5°	30.1	30.1	30.7	26.0	24.6
40°	20.5	20.5	21.2	17.8	17.1
42.5°	15.0	15.0	14.3	12.3	12.3
45°	10.9	10.9	10.2	9.6	9.6
47.5°	8.9	8.2	7.5	7.5	7.5
50°	6.8	6.8	6.1	5.5	6.1
52.5°	5.5	5.5	4.8	4.8	4.8
55°	4.8	4.1	3.4	3.4	4.1
57.5°	3.4	3.4	2.7	2.7	3.4
60°	3.4	2.7	2.0	2.7	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
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°	2.7	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.4	1.4	2.0



(END OF REPORT)