

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: P284089

Luminaire Tested: **LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B209027D010 EU2B20WFL559027 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1308.3 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

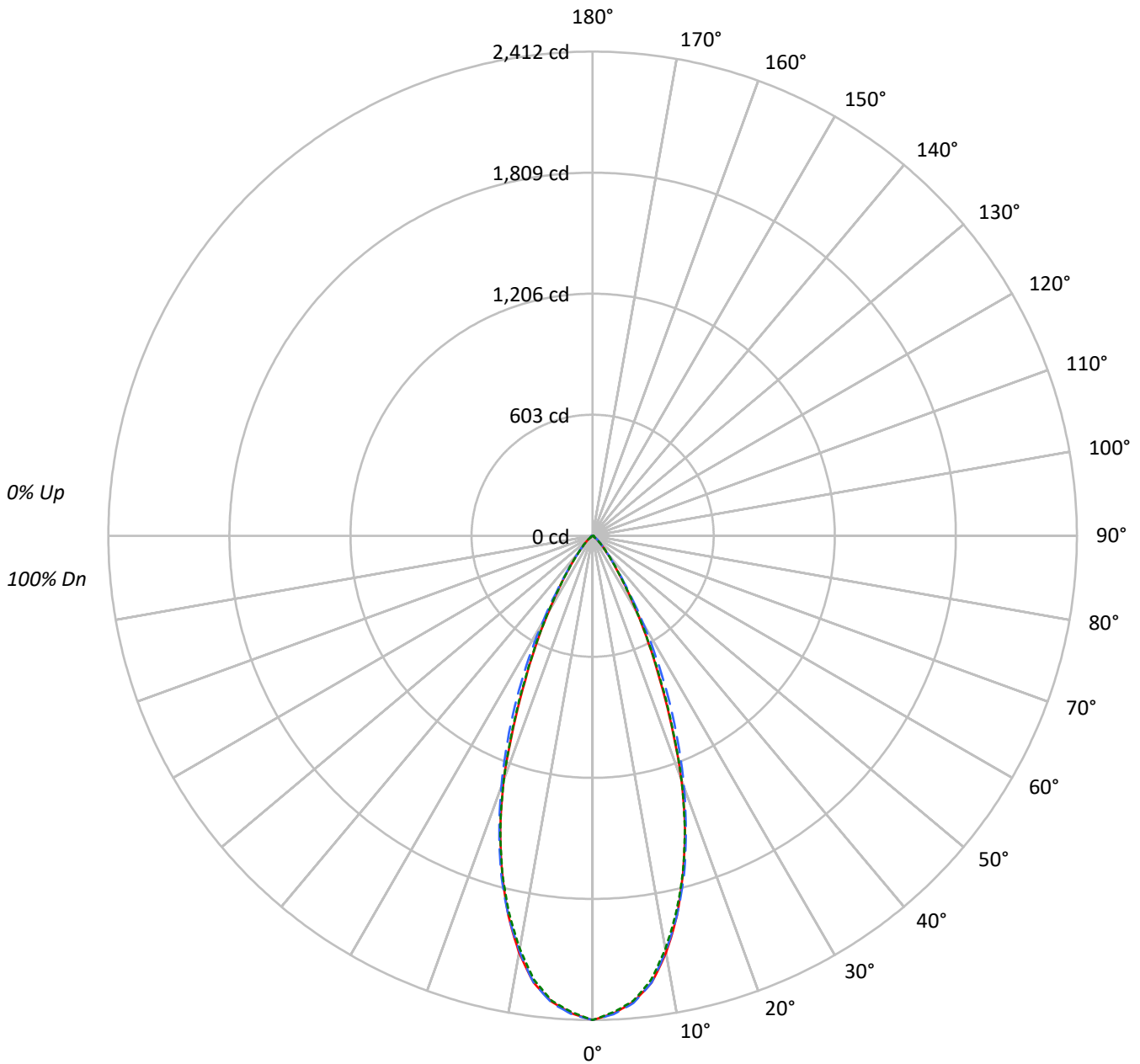
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58

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

	0°	45°	90°
0°	1190038	1190038	1190038
5°	1154271	1157044	1151844
10°	1056551	1052343	1046031
15°	888732	896956	887302
20°	679644	697653	678542
25°	431572	486553	439955
30°	251003	283361	255390
35°	132683	141115	133105
40°	70007	73227	70007
45°	39142	40607	39630
50°	18344	23180	18344
55°	6623	12644	7225
60°	7598	7598	7598
65°	8172	8989	8172
70°	10097	9088	10097
75°	9340	9340	9340
80°	9944	7955	9944
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.3	16.5
10°-20°	479.4	36.6
20°-30°	387.2	29.6
30°-40°	153.0	11.7
40°-50°	47.0	3.6
50°-60°	12.1	0.9
60°-70°	7.3	0.6
70°-80°	5.4	0.4
80°-90°	1.6	0.1
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°	1081.9	82.7
0°-40°	1234.9	94.4
0°-60°	1294.0	98.9
0°-90°	1308.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2412	2412	2412	2412	2412	
5°	2331	2335	2336	2331	2326	216
15°	1740	1745	1756	1749	1737	478
25°	793	831	894	846	808	369
35°	220	227	234	227	221	148
45°	56	57	58	58	57	46
55°	8	10	15	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2412.1	2412.1	2412.1	2412.1	2412.1
2.5°	2382.0	2383.4	2385.5	2382.7	2375.6
5°	2330.7	2334.9	2336.3	2331.4	2325.8
7.5°	2246.5	2241.6	2245.8	2237.4	2230.4
10°	2109.0	2102.7	2100.6	2088.0	2088.0
12.5°	1939.2	1937.1	1938.5	1932.2	1922.4
15°	1740.0	1744.9	1756.1	1749.1	1737.2
17.5°	1528.8	1535.8	1545.6	1543.5	1527.4
20°	1294.5	1314.8	1328.8	1315.5	1292.4
22.5°	1027.9	1071.4	1107.1	1079.1	1041.2
25°	792.8	830.7	893.8	846.1	808.2
27.5°	601.3	628.6	686.2	639.2	613.2
30°	440.6	457.4	497.4	466.6	448.3
32.5°	315.0	326.9	343.8	325.5	316.4
35°	220.3	226.6	234.3	227.3	221.0
37.5°	155.1	157.2	162.8	157.2	154.4
40°	108.7	109.5	113.7	110.2	108.7
42.5°	78.6	78.6	80.7	79.3	78.6
45°	56.1	56.8	58.2	57.5	56.8
47.5°	40.0	41.4	41.4	42.1	39.3
50°	23.9	29.5	30.2	29.5	23.9
52.5°	12.6	17.5	21.7	17.5	12.6
55°	7.7	10.5	14.7	10.5	8.4
57.5°	7.7	7.7	9.8	8.4	7.7
60°	7.7	7.7	7.7	7.7	7.7
62.5°	7.7	7.7	7.7	7.7	7.7
65°	7.0	7.7	7.7	7.7	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	7.0	7.0	6.3	7.0	7.0
72.5°	6.3	6.3	5.6	6.3	6.3
75°	4.9	4.9	4.9	4.9	4.9
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.5	3.5	2.8	3.5	3.5
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)