

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: P284131

Luminaire Tested: **LDA2B20D2WD010 EU2B20WFL55D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284131  
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: LDA2B20D2WD010 EU2B20WFL55D2W 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: 1266.1 lumens  
Efficiency: N/A  
Efficacy: 61.5 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

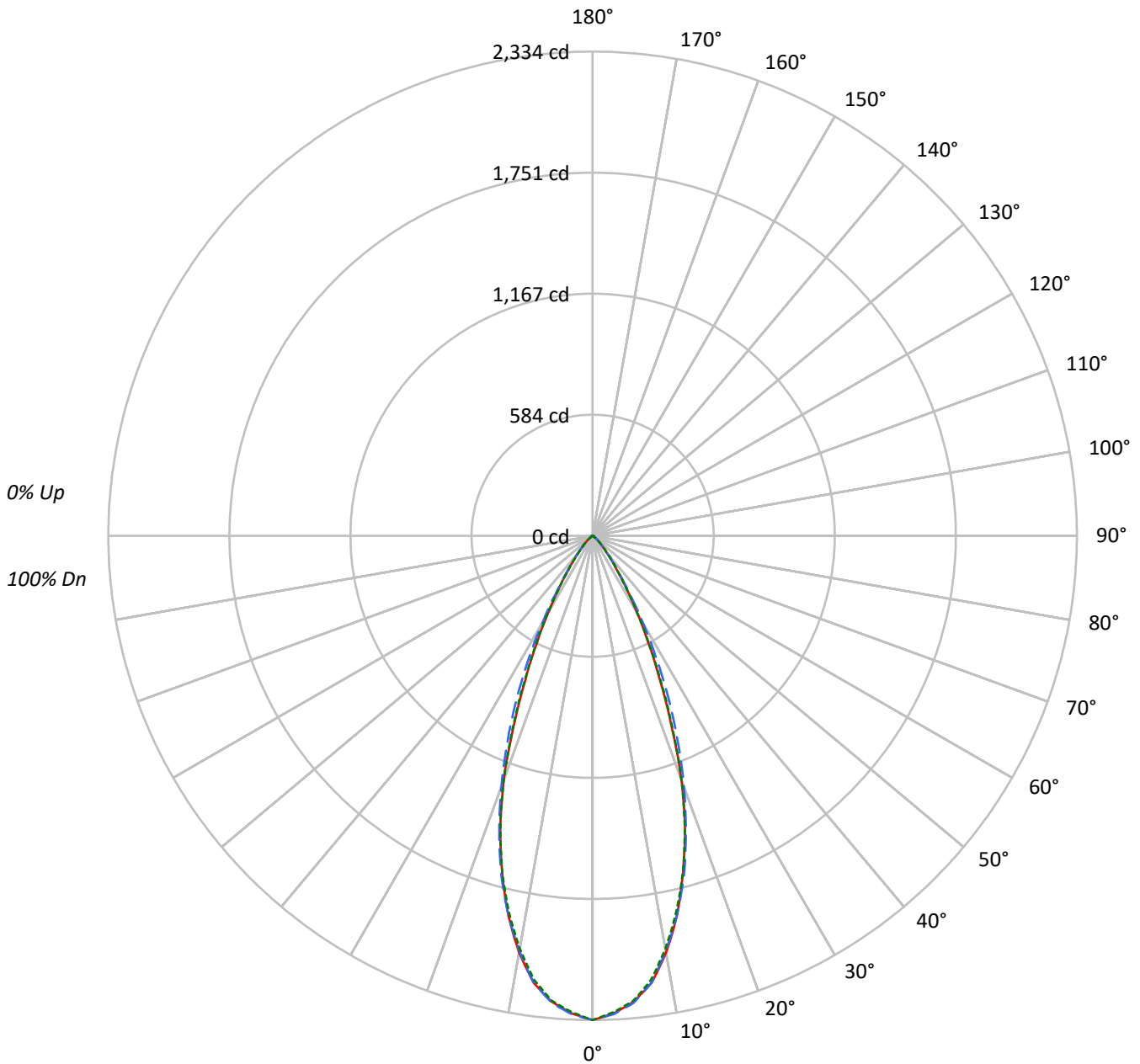
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1151556	1151556	1151556
5°	1116979	1119653	1114601
10°	1022385	1018327	1012215
15°	859976	867944	858597
20°	657646	675129	656596
25°	417636	470821	425747
30°	242914	274246	247129
35°	128407	136598	128828
40°	67753	70844	67753
45°	37886	39351	38375
50°	17730	22412	17730
55°	6451	12300	6967
60°	7400	7400	7400
65°	7938	8755	7938
70°	9809	8799	9809
75°	9150	9150	9150
80°	9660	7671	9660
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	16.5
10°-20°	463.9	36.6
20°-30°	374.7	29.6
30°-40°	148.1	11.7
40°-50°	45.5	3.6
50°-60°	11.7	0.9
60°-70°	7.1	0.6
70°-80°	5.2	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°	1046.9	82.7
0°-40°	1195.0	94.4
0°-60°	1252.2	98.9
0°-90°	1266.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2334	2334	2334	2334	2334	
5°	2255	2260	2261	2256	2251	209
15°	1684	1688	1699	1693	1681	462
25°	767	804	865	819	782	357
35°	213	219	227	220	214	143
45°	54	55	56	56	55	44
55°	8	10	14	10	8	9
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°	2334.1	2334.1	2334.1	2334.1	2334.1
2.5°	2304.9	2306.3	2308.3	2305.6	2298.8
5°	2255.4	2259.5	2260.8	2256.1	2250.6
7.5°	2173.9	2169.2	2173.2	2165.1	2158.3
10°	2040.8	2034.7	2032.7	2020.5	2020.5
12.5°	1876.5	1874.5	1875.9	1869.8	1860.2
15°	1683.7	1688.5	1699.3	1692.6	1681.0
17.5°	1479.4	1486.2	1495.7	1493.6	1478.0
20°	1252.6	1272.3	1285.9	1273.0	1250.6
22.5°	994.6	1036.7	1071.3	1044.2	1007.5
25°	767.2	803.8	864.9	818.8	782.1
27.5°	581.8	608.3	664.0	618.5	593.4
30°	426.4	442.7	481.4	451.5	433.8
32.5°	304.8	316.4	332.7	315.0	306.2
35°	213.2	219.3	226.8	220.0	213.9
37.5°	150.0	152.1	157.5	152.1	149.4
40°	105.2	105.9	110.0	106.6	105.2
42.5°	76.0	76.0	78.1	76.7	76.0
45°	54.3	55.0	56.4	55.7	55.0
47.5°	38.7	40.1	40.1	40.7	38.0
50°	23.1	28.5	29.2	28.5	23.1
52.5°	12.2	17.0	21.0	17.0	12.2
55°	7.5	10.2	14.3	10.2	8.1
57.5°	7.5	7.5	9.5	8.1	7.5
60°	7.5	7.5	7.5	7.5	7.5
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.8	7.5	7.5	7.5	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	6.8	6.8	6.1	6.8	6.8
72.5°	6.1	6.1	5.4	6.1	6.1
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	2.7	3.4	3.4
82.5°	2.0	2.0	2.0	2.0	2.0
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)