

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: P284130

Luminaire Tested: **LDA2B20D2WD010 EU2B20WFL55D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284130
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1244.5 lumens
Efficiency: N/A
Efficacy: 60.4 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

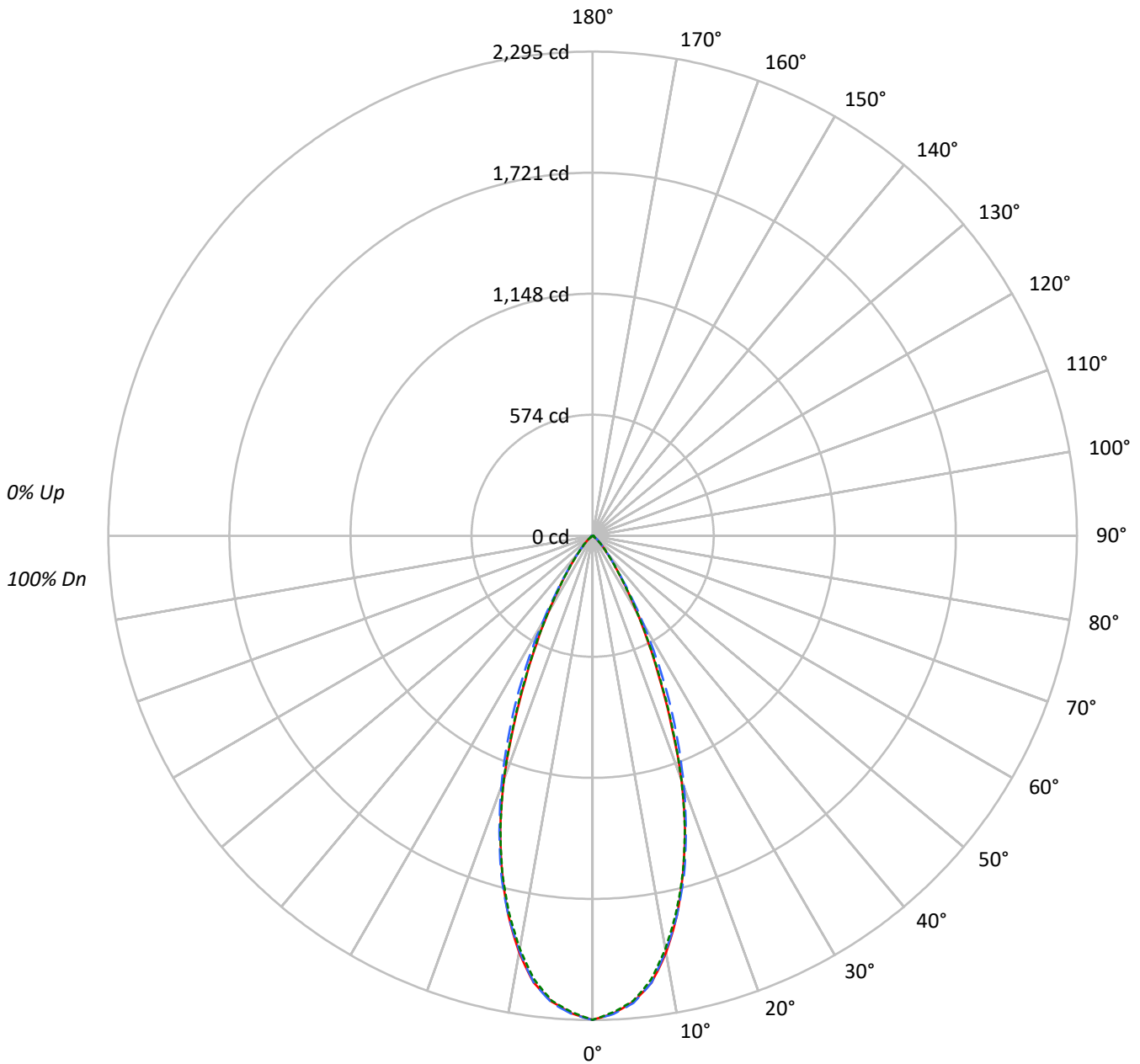
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1132068	1132068	1132068
5°	1098060	1100685	1095733
10°	1005051	1001044	995032
15°	845419	853234	844040
20°	646515	663684	645465
25°	410560	462873	418562
30°	238755	269575	242971
35°	126239	134249	126600
40°	66594	69621	66594
45°	37258	38654	37747
50°	17423	22028	17423
55°	6279	12042	6881
60°	7203	7203	7203
65°	7822	8522	7822
70°	9665	8655	9665
75°	8959	8959	8959
80°	9376	7671	9376
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	16.5
10°-20°	456.1	36.6
20°-30°	368.3	29.6
30°-40°	145.6	11.7
40°-50°	44.7	3.6
50°-60°	11.5	0.9
60°-70°	7.0	0.6
70°-80°	5.1	0.4
80°-90°	1.5	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°	1029.2	82.7
0°-40°	1174.7	94.4
0°-60°	1230.9	98.9
0°-90°	1244.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2295	2295	2295	2295	2295	
5°	2217	2221	2222	2218	2212	205
15°	1655	1660	1670	1664	1652	455
25°	754	790	850	805	769	351
35°	210	216	223	216	210	140
45°	53	54	55	55	54	44
55°	7	10	14	10	8	9
65°	7	7	7	7	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°	2294.6	2294.6	2294.6	2294.6	2294.6
2.5°	2265.9	2267.2	2269.2	2266.5	2259.9
5°	2217.2	2221.2	2222.5	2217.8	2212.5
7.5°	2137.1	2132.4	2136.4	2128.4	2121.7
10°	2006.2	2000.2	1998.2	1986.2	1986.2
12.5°	1844.7	1842.7	1844.1	1838.1	1828.7
15°	1655.2	1659.9	1670.5	1663.9	1652.5
17.5°	1454.3	1461.0	1470.3	1468.3	1453.0
20°	1231.4	1250.7	1264.1	1251.4	1229.4
22.5°	977.8	1019.1	1053.2	1026.5	990.4
25°	754.2	790.2	850.3	804.9	768.9
27.5°	572.0	598.0	652.7	608.0	583.3
30°	419.1	435.2	473.2	443.8	426.5
32.5°	299.7	311.0	327.0	309.7	301.0
35°	209.6	215.6	222.9	216.2	210.2
37.5°	147.5	149.5	154.8	149.5	146.8
40°	103.4	104.1	108.1	104.8	103.4
42.5°	74.8	74.8	76.8	75.4	74.8
45°	53.4	54.1	55.4	54.7	54.1
47.5°	38.0	39.4	39.4	40.0	37.4
50°	22.7	28.0	28.7	28.0	22.7
52.5°	12.0	16.7	20.7	16.7	12.0
55°	7.3	10.0	14.0	10.0	8.0
57.5°	7.3	7.3	9.3	8.0	7.3
60°	7.3	7.3	7.3	7.3	7.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.7	7.3	7.3	7.3	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.0	6.7	6.7
72.5°	6.0	6.0	5.3	6.0	6.0
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	2.7	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
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)