

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: P284129

Luminaire Tested: **LDA2B20D2WD010 EU2B20WFL55D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284129
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1293.4 lumens
Efficiency: N/A
Efficacy: 62.8 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

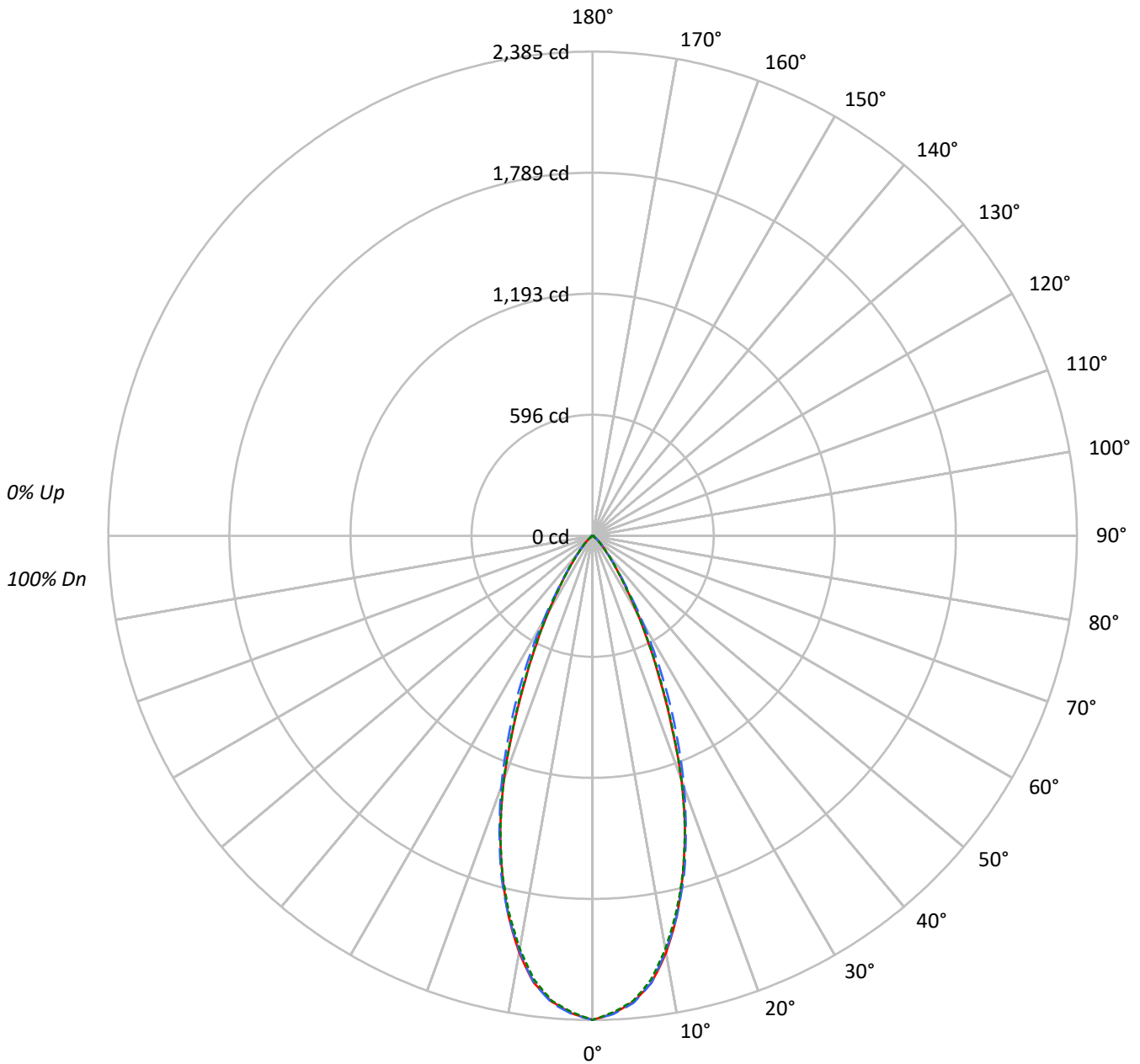
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1176471	1176471	1176471
5°	1141097	1143870	1138720
10°	1044528	1040320	1034108
15°	878568	886740	877189
20°	671874	689725	670771
25°	426673	481055	434947
30°	248155	280171	252484
35°	131177	139549	131599
40°	69234	72390	69234
45°	38723	40189	39212
50°	18114	22873	18114
55°	6537	12558	7139
60°	7499	7499	7499
65°	8055	8872	8055
70°	9953	8943	9953
75°	9340	9340	9340
80°	9944	7955	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	16.5
10°-20°	473.9	36.6
20°-30°	382.8	29.6
30°-40°	151.3	11.7
40°-50°	46.5	3.6
50°-60°	12.0	0.9
60°-70°	7.2	0.6
70°-80°	5.3	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°	1069.6	82.7
0°-40°	1220.8	94.4
0°-60°	1279.3	98.9
0°-90°	1293.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2304	2308	2310	2305	2299	213
15°	1720	1725	1736	1729	1717	472
25°	784	821	884	836	799	365
35°	218	224	232	225	218	146
45°	56	56	58	57	56	45
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°	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2354.8	2356.2	2358.3	2355.5	2348.5
5°	2304.1	2308.3	2309.7	2304.8	2299.3
7.5°	2220.9	2216.1	2220.2	2211.9	2205.0
10°	2085.0	2078.7	2076.6	2064.2	2064.2
12.5°	1917.1	1915.0	1916.4	1910.2	1900.5
15°	1720.1	1725.0	1736.1	1729.2	1717.4
17.5°	1511.4	1518.3	1528.0	1525.9	1510.0
20°	1279.7	1299.8	1313.7	1300.5	1277.6
22.5°	1016.1	1059.1	1094.5	1066.8	1029.3
25°	783.8	821.2	883.7	836.5	799.0
27.5°	594.4	621.5	678.3	631.9	606.2
30°	435.6	452.2	491.8	461.2	443.2
32.5°	311.4	323.2	339.9	321.8	312.8
35°	217.8	224.0	231.7	224.7	218.5
37.5°	153.3	155.4	160.9	155.4	152.6
40°	107.5	108.2	112.4	108.9	107.5
42.5°	77.7	77.7	79.8	78.4	77.7
45°	55.5	56.2	57.6	56.9	56.2
47.5°	39.5	40.9	40.9	41.6	38.8
50°	23.6	29.1	29.8	29.1	23.6
52.5°	12.5	17.3	21.5	17.3	12.5
55°	7.6	10.4	14.6	10.4	8.3
57.5°	7.6	7.6	9.7	8.3	7.6
60°	7.6	7.6	7.6	7.6	7.6
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.9	7.6	7.6	7.6	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.2	6.9	6.9
72.5°	6.2	6.2	5.5	6.2	6.2
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)