

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: P284128

Luminaire Tested: **LDA2B20D2WD010 EU2B20WFL55D2W 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284128
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366.7 lumens
Efficiency: N/A
Efficacy: 66.3 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

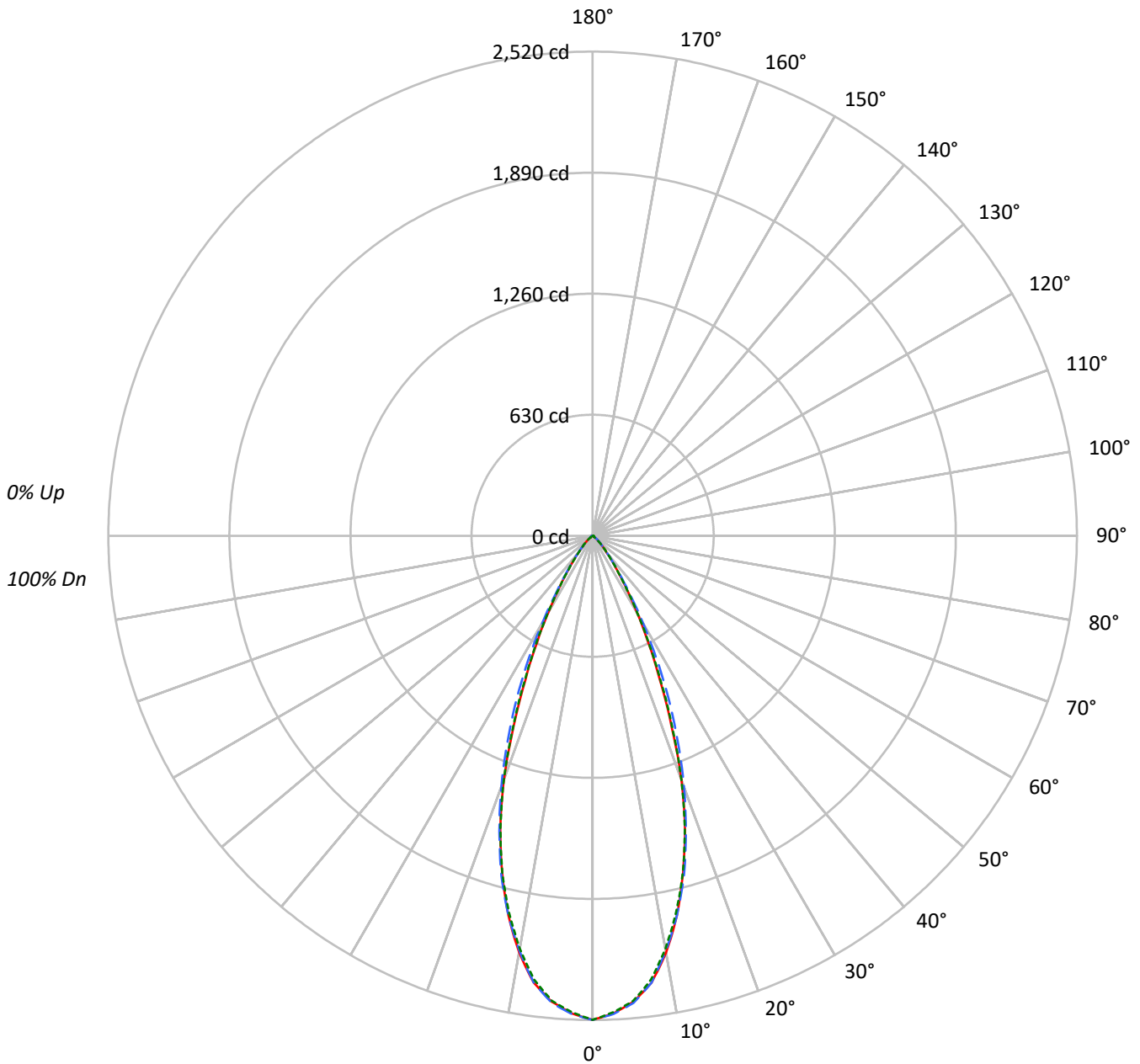
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	1243124	1243124	1243124
5°	1205727	1208649	1203201
10°	1103693	1099284	1092672
15°	928368	936949	926835
20°	709938	728787	708783
25°	450843	508273	459607
30°	262226	296008	266784
35°	138585	147439	139067
40°	73163	76447	73163
45°	40886	42421	41445
50°	19112	24177	19112
55°	6967	13246	7569
60°	7992	7992	7992
65°	8522	9456	8522
70°	10530	9520	10530
75°	9722	9722	9722
80°	10512	8239	10512
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	16.5
10°-20°	500.8	36.6
20°-30°	404.4	29.6
30°-40°	159.8	11.7
40°-50°	49.1	3.6
50°-60°	12.7	0.9
60°-70°	7.7	0.6
70°-80°	5.6	0.4
80°-90°	1.7	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°	1130.2	82.7
0°-40°	1290.0	94.4
0°-60°	1351.7	98.9
0°-90°	1366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2520	2520	2520	2520	2520	
5°	2435	2439	2440	2435	2430	225
15°	1818	1823	1834	1827	1815	499
25°	828	868	934	884	844	386
35°	230	237	245	238	231	154
45°	59	59	61	60	59	48
55°	8	11	15	11	9	10
65°	7	8	8	8	7	8
75°	5	5	5	5	5	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2519.7	2519.7	2519.7	2519.7	2519.7
2.5°	2488.1	2489.6	2491.8	2488.9	2481.6
5°	2434.6	2439.0	2440.5	2435.4	2429.5
7.5°	2346.7	2341.6	2346.0	2337.2	2329.8
10°	2203.1	2196.5	2194.3	2181.1	2181.1
12.5°	2025.7	2023.5	2025.0	2018.4	2008.1
15°	1817.6	1822.7	1834.4	1827.1	1814.6
17.5°	1597.0	1604.3	1614.5	1612.3	1595.5
20°	1352.2	1373.4	1388.1	1374.2	1350.0
22.5°	1073.7	1119.1	1156.5	1127.2	1087.6
25°	828.2	867.7	933.7	883.9	844.3
27.5°	628.1	656.7	716.8	667.7	640.5
30°	460.3	477.8	519.6	487.4	468.3
32.5°	329.1	341.5	359.1	340.1	330.5
35°	230.1	236.7	244.8	237.5	230.9
37.5°	162.0	164.2	170.0	164.2	161.2
40°	113.6	114.3	118.7	115.1	113.6
42.5°	82.1	82.1	84.3	82.8	82.1
45°	58.6	59.4	60.8	60.1	59.4
47.5°	41.8	43.2	43.2	44.0	41.0
50°	24.9	30.8	31.5	30.8	24.9
52.5°	13.2	18.3	22.7	18.3	13.2
55°	8.1	11.0	15.4	11.0	8.8
57.5°	8.1	8.1	10.3	8.8	8.1
60°	8.1	8.1	8.1	8.1	8.1
62.5°	8.1	8.1	8.1	8.1	8.1
65°	7.3	8.1	8.1	8.1	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	7.3	7.3	6.6	7.3	7.3
72.5°	6.6	6.6	5.9	6.6	6.6
75°	5.1	5.1	5.1	5.1	5.1
77.5°	4.4	4.4	4.4	4.4	4.4
80°	3.7	3.7	2.9	3.7	3.7
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.5	1.5	1.5	1.5	1.5
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)