

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: P284127

Luminaire Tested: **LDA2B20D2WD010 EU2B20WFL55D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284127
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1340.7 lumens
Efficiency: N/A
Efficacy: 65.1 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

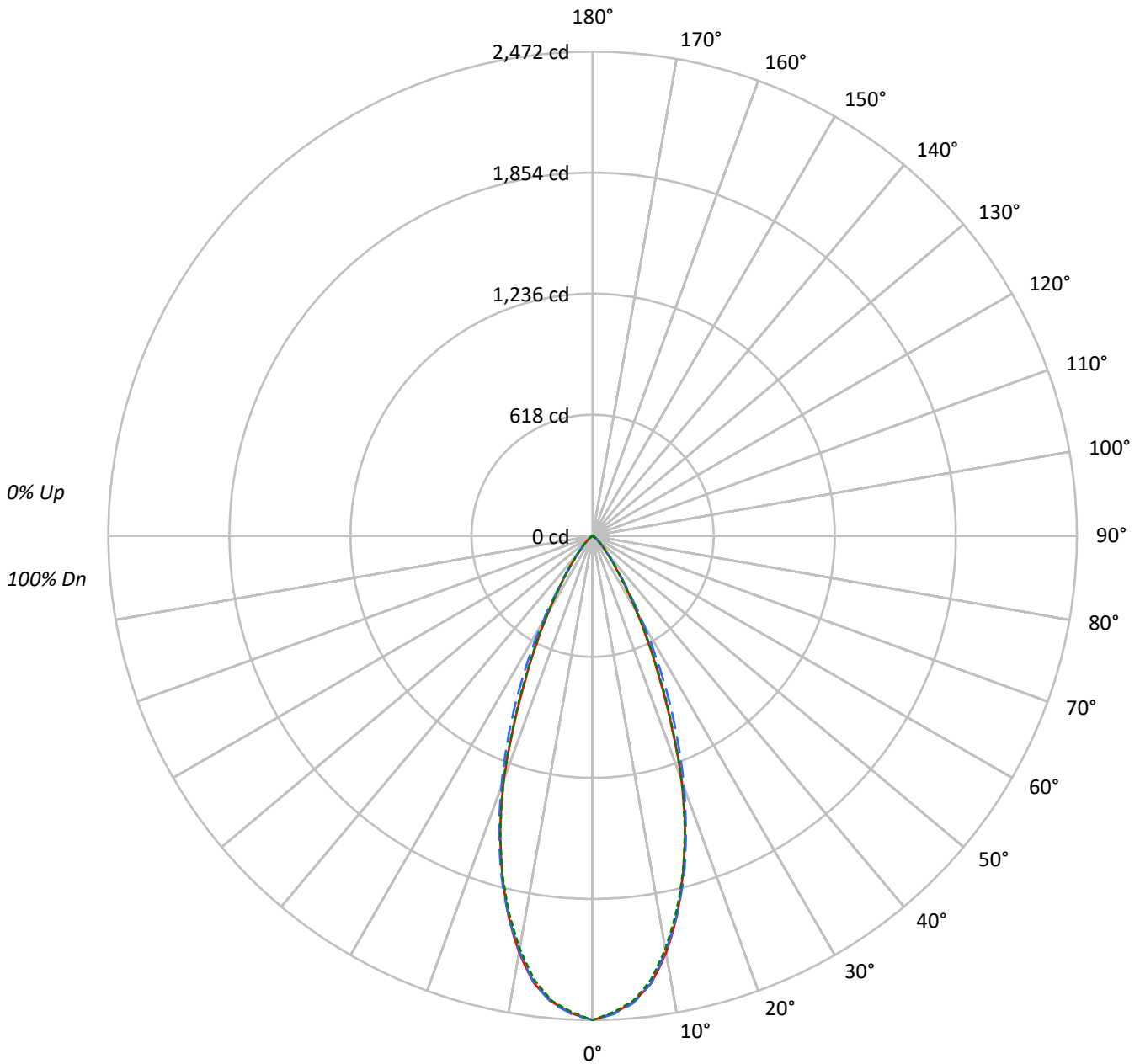
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1219541	1219541	1219541
5°	1182896	1185768	1180420
10°	1082752	1078444	1071931
15°	910746	919225	909265
20°	696498	714979	695343
25°	442296	498638	450897
30°	257213	290425	261713
35°	135996	144608	136417
40°	71746	75030	71746
45°	40119	41654	40607
50°	18728	23717	18728
55°	6795	12988	7397
60°	7795	7795	7795
65°	8405	9222	8405
70°	10386	9376	10386
75°	9531	9531	9531
80°	10228	8239	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	16.5
10°-20°	491.3	36.6
20°-30°	396.8	29.6
30°-40°	156.8	11.7
40°-50°	48.1	3.6
50°-60°	12.4	0.9
60°-70°	7.5	0.6
70°-80°	5.5	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°	1108.7	82.7
0°-40°	1265.5	94.4
0°-60°	1326.1	98.9
0°-90°	1340.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2388	2393	2394	2389	2384	221
15°	1783	1788	1800	1792	1780	490
25°	812	851	916	867	828	378
35°	226	232	240	233	226	151
45°	58	58	60	59	58	47
55°	8	11	15	11	9	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	6
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°	2471.9	2471.9	2471.9	2471.9	2471.9
2.5°	2441.0	2442.4	2444.6	2441.7	2434.5
5°	2388.5	2392.8	2394.3	2389.2	2383.5
7.5°	2302.2	2297.2	2301.5	2292.9	2285.7
10°	2161.3	2154.8	2152.7	2139.7	2139.7
12.5°	1987.3	1985.2	1986.6	1980.1	1970.1
15°	1783.1	1788.1	1799.7	1792.5	1780.2
17.5°	1566.7	1573.9	1584.0	1581.8	1565.3
20°	1326.6	1347.4	1361.8	1348.1	1324.4
22.5°	1053.3	1097.9	1134.6	1105.8	1067.0
25°	812.5	851.3	916.0	867.1	828.3
27.5°	616.2	644.2	703.2	655.0	628.4
30°	451.5	468.8	509.8	478.1	459.4
32.5°	322.8	335.1	352.3	333.6	324.3
35°	225.8	232.2	240.1	233.0	226.5
37.5°	158.9	161.1	166.8	161.1	158.2
40°	111.4	112.2	116.5	112.9	111.4
42.5°	80.5	80.5	82.7	81.2	80.5
45°	57.5	58.2	59.7	59.0	58.2
47.5°	41.0	42.4	42.4	43.1	40.3
50°	24.4	30.2	30.9	30.2	24.4
52.5°	12.9	18.0	22.3	18.0	12.9
55°	7.9	10.8	15.1	10.8	8.6
57.5°	7.9	7.9	10.1	8.6	7.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.9	7.9	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.5	7.2	7.2
72.5°	6.5	6.5	5.8	6.5	6.5
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	2.9	3.6	3.6
82.5°	2.2	2.2	2.2	2.2	2.2
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)