

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: P284086

Luminaire Tested: **LDA2B209027D010 EU2B20WFL559027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284086
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: LDA2B209027D010 EU2B20WFL559027 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: 1412.3 lumens
Efficiency: N/A
Efficacy: 68.6 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

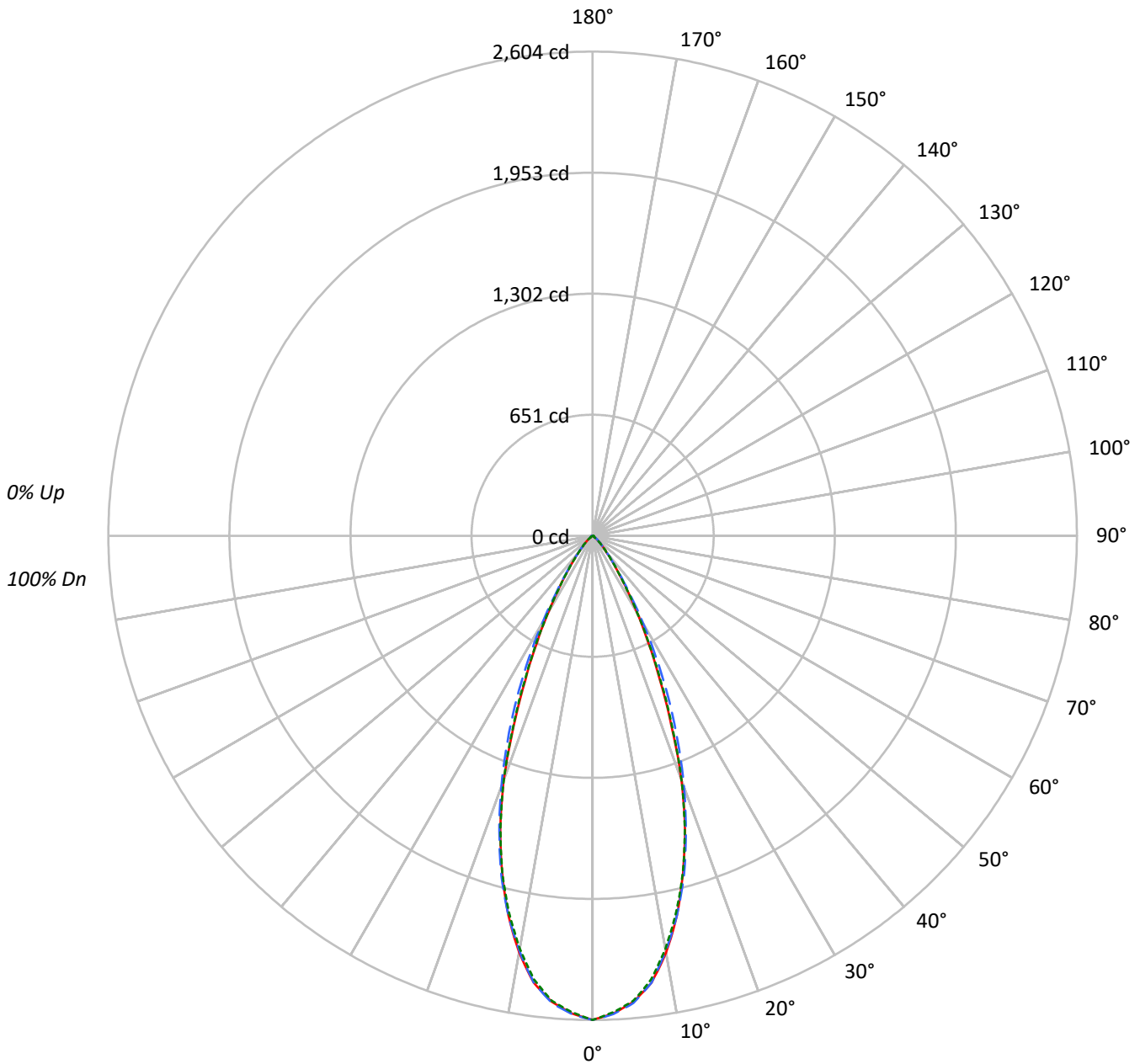
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1284665	1284665	1284665
5°	1246040	1249061	1243415
10°	1140565	1136006	1129142
15°	959371	968259	957839
20°	733669	753148	732462
25°	465867	525257	474958
30°	270942	305921	275728
35°	143223	152378	143705
40°	75610	79023	75610
45°	42282	43887	42770
50°	19802	25022	19802
55°	7139	13676	7827
60°	8190	8190	8190
65°	8872	9689	8872
70°	10963	9809	10963
75°	10103	10103	10103
80°	10796	8523	10796
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	16.5
10°-20°	517.5	36.6
20°-30°	418.0	29.6
30°-40°	165.2	11.7
40°-50°	50.7	3.6
50°-60°	13.1	0.9
60°-70°	7.9	0.6
70°-80°	5.8	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°	1167.9	82.7
0°-40°	1333.1	94.4
0°-60°	1396.9	98.9
0°-90°	1412.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2604	2604	2604	2604	2604	
5°	2516	2520	2522	2517	2511	233
15°	1878	1884	1896	1888	1875	516
25°	856	897	965	913	872	398
35°	238	245	253	245	239	159
45°	61	61	63	62	61	49
55°	8	11	16	11	9	10
65°	8	8	8	8	8	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°	2603.9	2603.9	2603.9	2603.9	2603.9
2.5°	2571.3	2572.8	2575.1	2572.0	2564.5
5°	2516.0	2520.5	2522.1	2516.8	2510.7
7.5°	2425.1	2419.8	2424.4	2415.3	2407.7
10°	2276.7	2269.8	2267.6	2253.9	2253.9
12.5°	2093.4	2091.1	2092.6	2085.8	2075.2
15°	1878.3	1883.6	1895.7	1888.1	1875.3
17.5°	1650.3	1657.9	1668.5	1666.2	1648.8
20°	1397.4	1419.3	1434.5	1420.1	1395.1
22.5°	1109.6	1156.5	1195.1	1164.8	1123.9
25°	855.8	896.7	964.9	913.4	872.5
27.5°	649.1	678.6	740.7	690.0	661.9
30°	475.6	493.8	537.0	503.7	484.0
32.5°	340.1	352.9	371.1	351.4	341.6
35°	237.8	244.6	253.0	245.4	238.6
37.5°	167.4	169.7	175.7	169.7	166.6
40°	117.4	118.2	122.7	118.9	117.4
42.5°	84.8	84.8	87.1	85.6	84.8
45°	60.6	61.3	62.9	62.1	61.3
47.5°	43.2	44.7	44.7	45.4	42.4
50°	25.8	31.8	32.6	31.8	25.8
52.5°	13.6	18.9	23.5	18.9	13.6
55°	8.3	11.4	15.9	11.4	9.1
57.5°	8.3	8.3	10.6	9.1	8.3
60°	8.3	8.3	8.3	8.3	8.3
62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.6	8.3	8.3	8.3	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.8	7.6	7.6
72.5°	6.8	6.8	6.1	6.8	6.8
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.8	3.8	3.0	3.8	3.8
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)