

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: P284110

Luminaire Tested: **LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284110
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: LDA2B209050D010 EU2B20WFL559050 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: 1605.0 lumens
Efficiency: N/A
Efficacy: 77.9 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

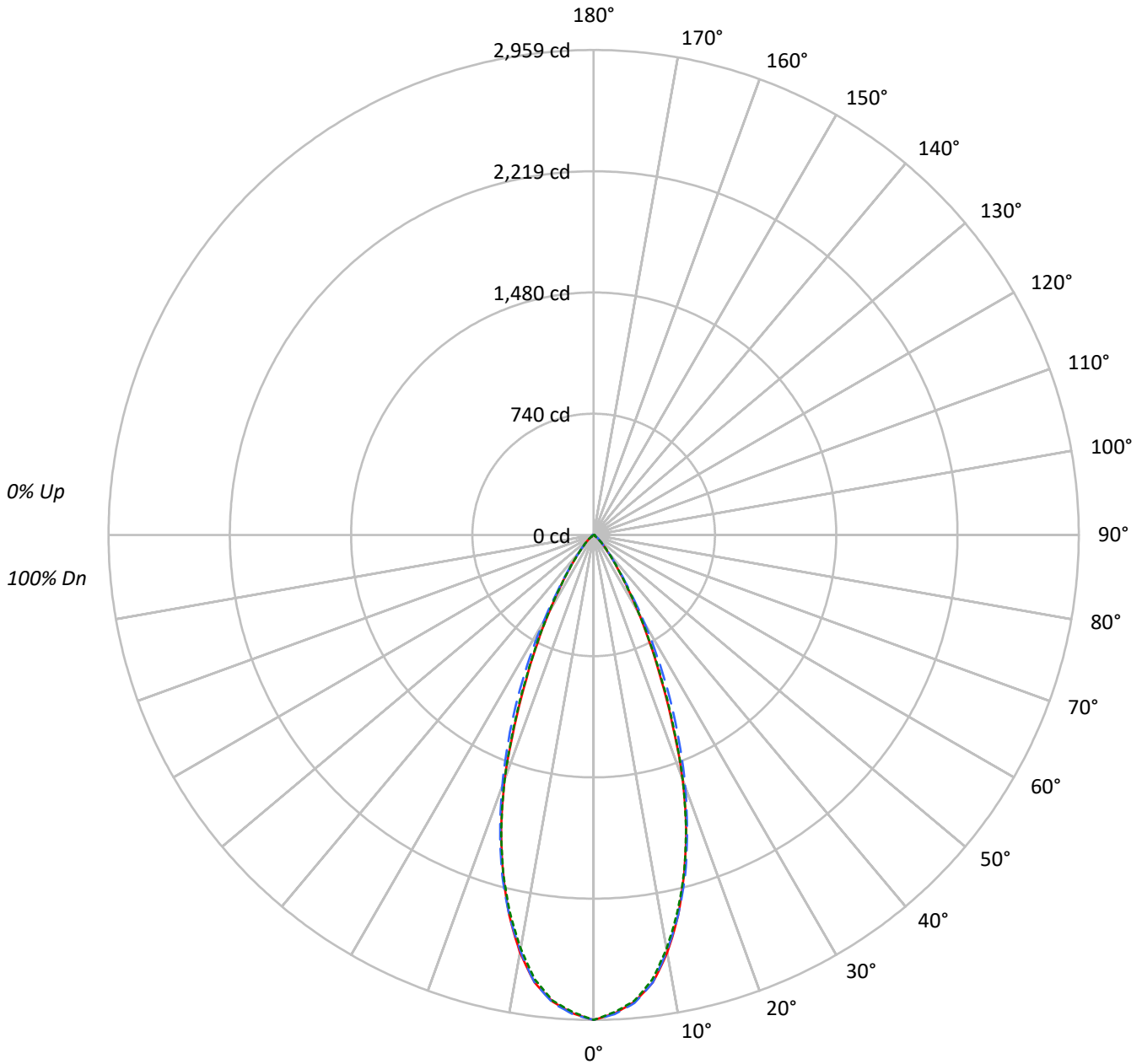
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1459858	1459858	1459858
5°	1416008	1419426	1413037
10°	1296117	1290957	1283191
15°	1090229	1100343	1088442
20°	833739	855843	832374
25°	529449	596896	539737
30°	307915	347622	313327
35°	162797	173157	163279
40°	85915	89779	85915
45°	48073	49817	48631
50°	22489	28399	22489
55°	8171	15569	8860
60°	9374	9374	9374
65°	10040	11090	10040
70°	12405	11107	12405
75°	11437	11437	11437
80°	12217	9660	12217
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	16.5
10°-20°	588.1	36.6
20°-30°	475.0	29.6
30°-40°	187.7	11.7
40°-50°	57.6	3.6
50°-60°	14.9	0.9
60°-70°	9.0	0.6
70°-80°	6.6	0.4
80°-90°	2.0	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°	1327.2	82.7
0°-40°	1514.9	94.4
0°-60°	1587.4	98.9
0°-90°	1605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2959	2959	2959	2959	2959	
5°	2859	2864	2866	2860	2853	265
15°	2134	2140	2154	2146	2131	586
25°	973	1019	1096	1038	992	453
35°	270	278	288	279	271	181
45°	69	70	71	71	70	56
55°	10	13	18	13	10	12
65°	9	10	10	10	9	9
75°	6	6	6	6	6	7
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°	2959.0	2959.0	2959.0	2959.0	2959.0
2.5°	2922.0	2923.7	2926.3	2922.9	2914.3
5°	2859.2	2864.4	2866.1	2860.0	2853.2
7.5°	2755.9	2749.9	2755.0	2744.7	2736.1
10°	2587.2	2579.5	2576.9	2561.4	2561.4
12.5°	2378.9	2376.3	2378.1	2370.3	2358.3
15°	2134.5	2140.5	2154.3	2145.7	2131.0
17.5°	1875.4	1884.0	1896.1	1893.5	1873.7
20°	1588.0	1612.9	1630.1	1613.8	1585.4
22.5°	1260.9	1314.3	1358.2	1323.7	1277.3
25°	972.6	1019.0	1096.5	1038.0	991.5
27.5°	737.6	771.2	841.7	784.1	752.2
30°	540.5	561.2	610.2	572.4	550.0
32.5°	386.4	401.1	421.7	399.4	388.2
35°	270.3	278.0	287.5	278.9	271.1
37.5°	190.2	192.8	199.7	192.8	189.4
40°	133.4	134.3	139.4	135.1	133.4
42.5°	96.4	96.4	99.0	97.3	96.4
45°	68.9	69.7	71.4	70.6	69.7
47.5°	49.1	50.8	50.8	51.6	48.2
50°	29.3	36.1	37.0	36.1	29.3
52.5°	15.5	21.5	26.7	21.5	15.5
55°	9.5	12.9	18.1	12.9	10.3
57.5°	9.5	9.5	12.0	10.3	9.5
60°	9.5	9.5	9.5	9.5	9.5
62.5°	9.5	9.5	9.5	9.5	9.5
65°	8.6	9.5	9.5	9.5	8.6
67.5°	8.6	8.6	8.6	8.6	8.6
70°	8.6	8.6	7.7	8.6	8.6
72.5°	7.7	7.7	6.9	7.7	7.7
75°	6.0	6.0	6.0	6.0	6.0
77.5°	5.2	5.2	5.2	5.2	5.2
80°	4.3	4.3	3.4	4.3	4.3
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)