

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: P284107

Luminaire Tested: **LDA2B209040D010 EU2B20WFL559040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284107
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: LDA2B209040D010 EU2B20WFL559040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1447.2 lumens
Efficiency: N/A
Efficacy: 70.3 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

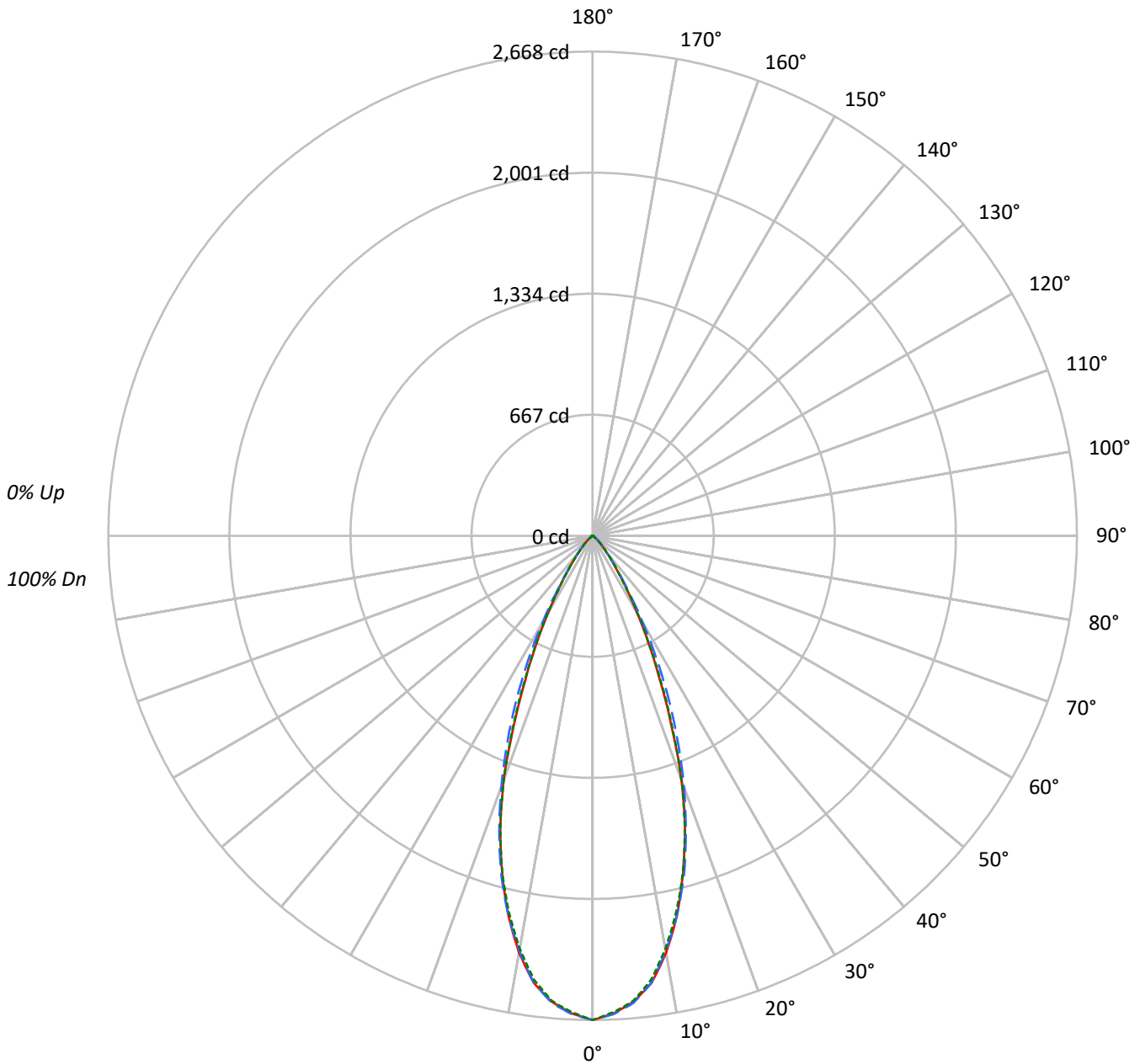
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1316339	1316339	1316339
5°	1276795	1279865	1274120
10°	1168719	1164060	1157047
15°	983071	992162	981487
20°	751783	771734	750523
25°	477408	538213	486662
30°	277665	313441	282507
35°	146776	156112	147258
40°	77478	80956	77478
45°	43328	44933	43887
50°	20263	25636	20263
55°	7311	14020	7999
60°	8387	8387	8387
65°	9106	9923	9106
70°	11251	10097	11251
75°	10293	10293	10293
80°	11081	8808	11081
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.2	16.5
10°-20°	530.3	36.6
20°-30°	428.3	29.6
30°-40°	169.3	11.7
40°-50°	52.0	3.6
50°-60°	13.4	0.9
60°-70°	8.1	0.6
70°-80°	5.9	0.4
80°-90°	1.8	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°	1196.7	82.7
0°-40°	1366.0	94.4
0°-60°	1431.4	98.9
0°-90°	1447.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2578	2583	2584	2579	2573	239
15°	1925	1930	1942	1935	1922	529
25°	877	919	989	936	894	408
35°	244	251	259	251	244	163
45°	62	63	64	64	63	51
55°	8	12	16	12	9	11
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°	2668.1	2668.1	2668.1	2668.1	2668.1
2.5°	2634.8	2636.3	2638.7	2635.6	2627.8
5°	2578.1	2582.8	2584.3	2578.9	2572.7
7.5°	2485.0	2479.6	2484.2	2474.9	2467.1
10°	2332.9	2325.9	2323.6	2309.6	2309.6
12.5°	2145.1	2142.7	2144.3	2137.3	2126.4
15°	1924.7	1930.1	1942.5	1934.8	1921.6
17.5°	1691.1	1698.8	1709.7	1707.4	1689.5
20°	1431.9	1454.4	1469.9	1455.1	1429.5
22.5°	1136.9	1185.1	1224.6	1193.6	1151.7
25°	877.0	918.9	988.7	935.9	894.0
27.5°	665.1	695.4	759.0	707.0	678.3
30°	487.4	506.0	550.2	516.1	495.9
32.5°	348.5	361.7	380.3	360.1	350.0
35°	243.7	250.7	259.2	251.4	244.5
37.5°	171.5	173.8	180.0	173.8	170.7
40°	120.3	121.1	125.7	121.8	120.3
42.5°	86.9	86.9	89.2	87.7	86.9
45°	62.1	62.9	64.4	63.6	62.9
47.5°	44.2	45.8	45.8	46.6	43.5
50°	26.4	32.6	33.4	32.6	26.4
52.5°	14.0	19.4	24.1	19.4	14.0
55°	8.5	11.6	16.3	11.6	9.3
57.5°	8.5	8.5	10.9	9.3	8.5
60°	8.5	8.5	8.5	8.5	8.5
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.8	8.5	8.5	8.5	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.0	7.8	7.8
72.5°	7.0	7.0	6.2	7.0	7.0
75°	5.4	5.4	5.4	5.4	5.4
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.9	3.9	3.1	3.9	3.9
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.6	1.6	1.6	1.6	1.6
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)