

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: P283666

Luminaire Tested: **LDA2B159027D010 EU2B15FL409027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159027D010 EU2B15FL409027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 968.4 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

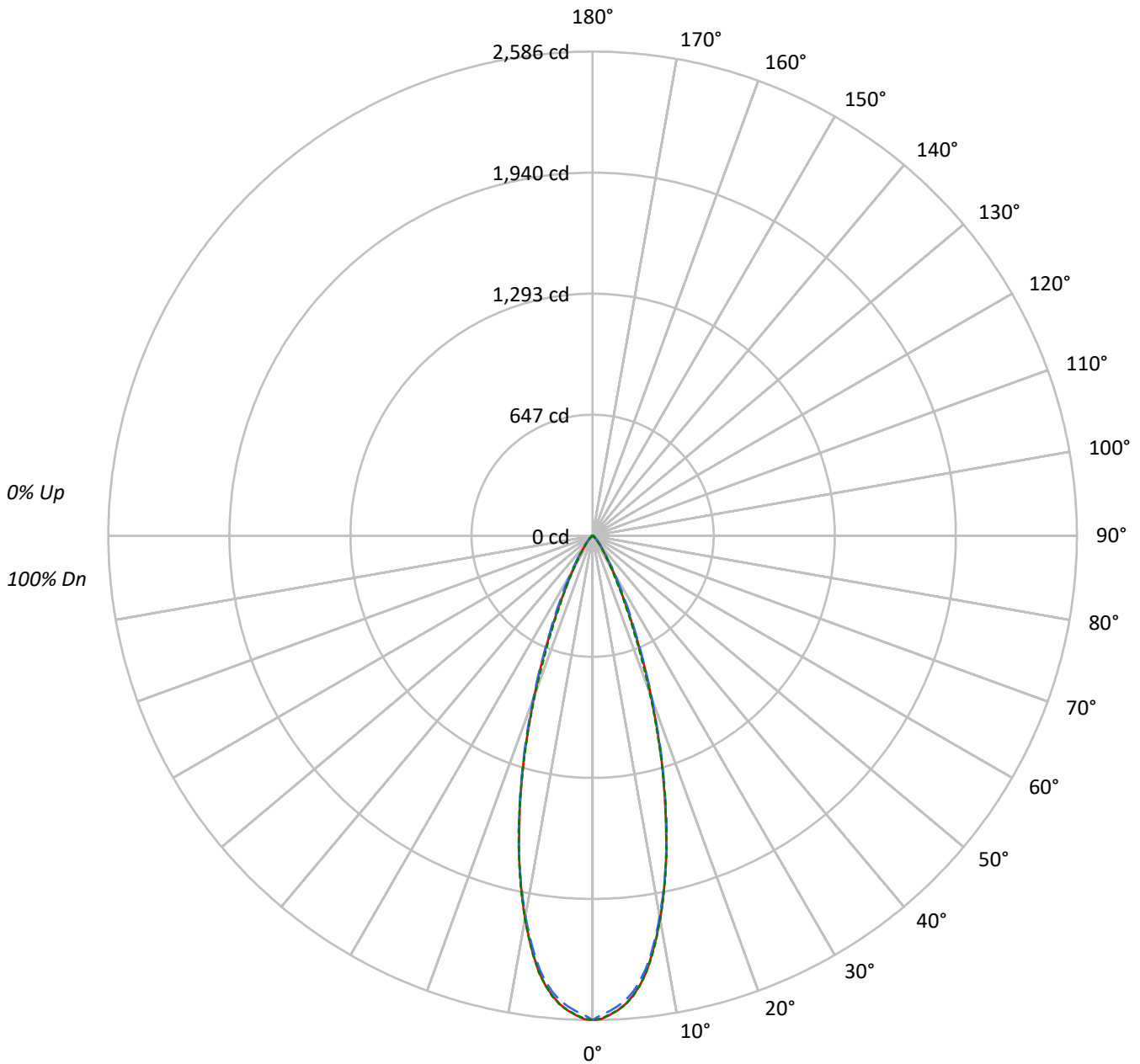
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1275982	1275982	1275982
5°	1221129	1211967	1223011
10°	1040320	1033807	1041422
15°	766761	771767	769264
20°	478665	487538	468112
25°	247250	265323	234839
30°	118551	135870	112969
35°	61192	67757	57277
40°	34263	36066	32524
45°	20862	20862	20094
50°	10822	13355	10822
55°	5591	8860	6107
60°	6414	6414	6414
65°	7004	7004	7004
70°	8655	7789	8655
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	23.0
10°-20°	408.6	42.2
20°-30°	221.5	22.9
30°-40°	71.1	7.3
40°-50°	24.2	2.5
50°-60°	8.5	0.9
60°-70°	6.2	0.6
70°-80°	4.5	0.5
80°-90°	1.3	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°	852.6	88.0
0°-40°	923.7	95.4
0°-60°	956.5	98.8
0°-90°	968.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	968.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2466	2450	2447	2472	2470	223
15°	1501	1514	1511	1518	1506	407
25°	454	475	487	454	431	218
35°	102	106	112	102	95	68
45°	30	30	30	30	29	24
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586.3	2586.3	2586.3	2586.3	2586.3
1°	2581.9	2563.5	2560.7	2584.7	2579.2
2°	2561.3	2543.9	2541.2	2565.1	2560.2
3°	2538.5	2522.7	2517.3	2542.3	2539.0
4°	2508.0	2493.4	2488.5	2513.5	2510.8
5°	2465.7	2450.4	2447.2	2471.6	2469.5
6°	2413.5	2401.0	2395.0	2419.5	2415.1
7°	2348.3	2336.9	2330.4	2348.3	2350.5
8°	2263.5	2258.1	2250.5	2268.4	2268.4
9°	2173.3	2168.5	2160.3	2176.6	2176.6
10°	2076.6	2073.4	2063.6	2078.8	2078.8
11°	1970.7	1969.1	1962.0	1974.5	1974.5
12°	1859.3	1863.1	1856.6	1867.4	1863.6
13°	1747.9	1746.3	1746.8	1755.0	1749.0
14°	1621.9	1631.6	1633.3	1638.2	1628.9
15°	1501.2	1513.7	1511.0	1518.1	1506.1
16°	1377.9	1392.0	1391.5	1393.1	1381.7
17°	1262.7	1270.9	1271.4	1269.8	1255.7
18°	1139.9	1151.3	1151.3	1148.6	1131.8
19°	1019.8	1028.5	1034.5	1028.5	1009.0
20°	911.7	917.7	928.6	913.3	891.6
21°	807.9	813.4	822.6	804.7	780.8
22°	708.5	715.6	724.3	703.6	678.6
23°	615.6	631.9	635.2	606.9	585.7
24°	530.3	548.8	554.2	525.4	503.1
25°	454.2	474.9	487.4	453.7	431.4
26°	388.5	408.6	423.8	390.1	368.9
27°	330.9	352.1	367.8	336.3	316.2
28°	281.4	302.1	318.4	289.1	270.0
29°	244.5	256.5	272.8	248.3	230.9
30°	208.1	221.1	238.5	213.5	198.3
32.5°	142.9	150.0	163.5	148.3	136.4
35°	101.6	106.0	112.5	102.1	95.1
37.5°	72.3	74.4	78.2	72.3	68.5
40°	53.2	54.3	56.0	52.7	50.5
42.5°	39.7	40.2	40.2	39.1	38.0
45°	29.9	30.4	29.9	29.9	28.8
47.5°	21.7	23.4	22.8	22.8	21.2
50°	14.1	17.4	17.4	16.8	14.1
52.5°	8.7	12.0	13.6	12.0	9.2
55°	6.5	8.2	10.3	8.2	7.1
57.5°	6.5	6.5	7.6	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.4	6.0	6.0
72.5°	5.4	5.4	4.9	5.4	4.9
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.2	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.5	6.5	6.5	6.5	6.5
65°	6.0	6.5	6.0	6.5	6.0



(END OF REPORT)