

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: P283582

Luminaire Tested: **LDA2B109027D010 EU2B10FL409027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283582
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: LDA2B109027D010 EU2B10FL409027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 727.9 lumens
Efficiency: N/A
Efficacy: 72.8 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

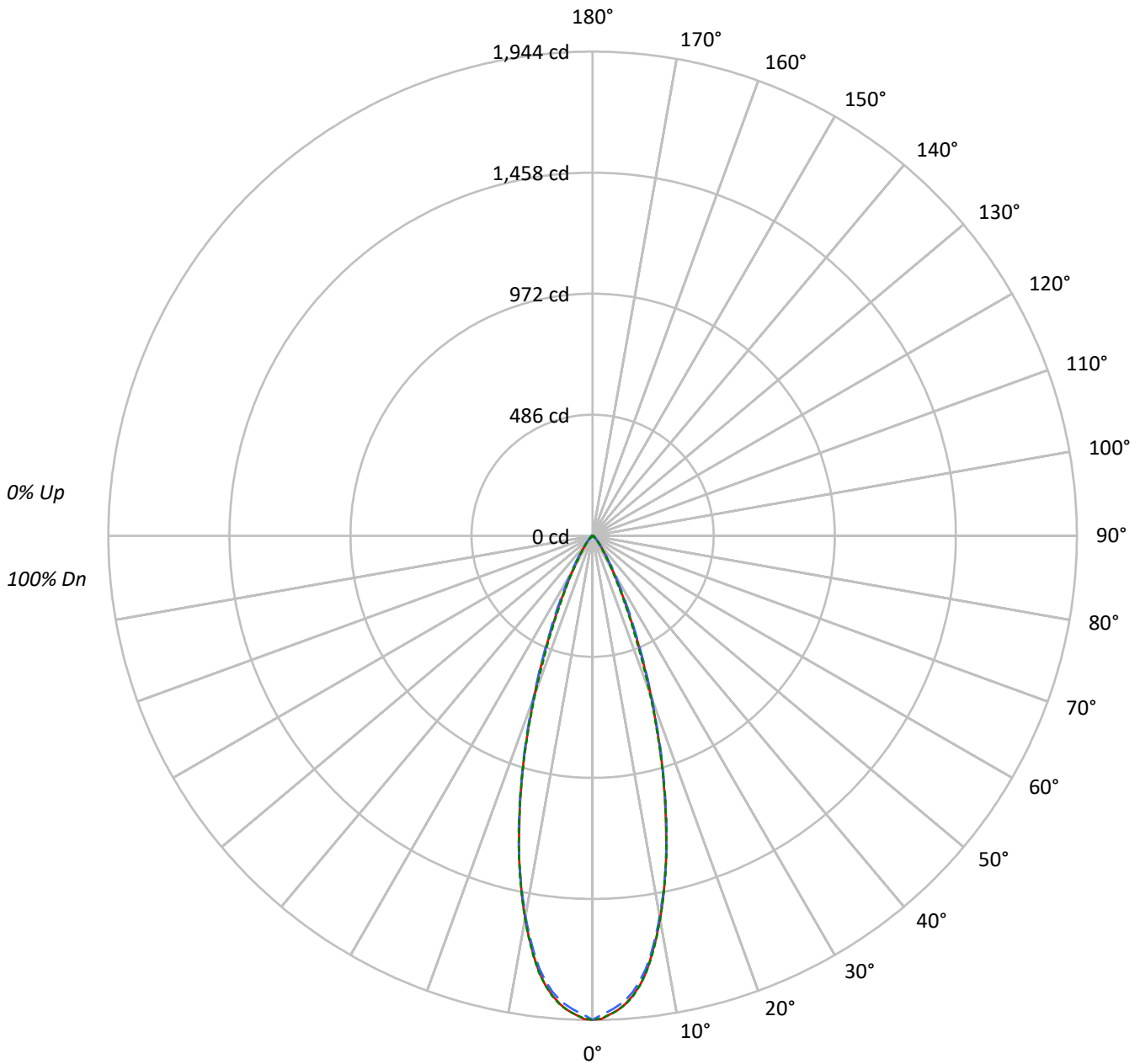
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	958947	958947	958947
5°	917741	910857	919128
10°	781868	776959	782670
15°	576246	580026	578136
20°	359747	366415	351819
25°	185846	199401	176483
30°	89099	102145	84883
35°	46014	50893	43063
40°	25762	27114	24473
45°	15699	15699	15071
50°	8136	10055	8136
55°	4215	6709	4559
60°	4835	4835	4835
65°	5253	5253	5253
70°	6491	5914	6491
75°	6290	6290	6290
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	23.0
10°-20°	307.1	42.2
20°-30°	166.5	22.9
30°-40°	53.4	7.3
40°-50°	18.2	2.5
50°-60°	6.4	0.9
60°-70°	4.6	0.6
70°-80°	3.4	0.5
80°-90°	1.0	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°	640.8	88.0
0°-40°	694.2	95.4
0°-60°	718.8	98.8
0°-90°	727.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1853	1842	1839	1858	1856	168
15°	1128	1138	1136	1141	1132	306
25°	341	357	366	341	324	164
35°	76	80	84	77	72	51
45°	22	23	22	22	22	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
75°	3	3	3	3	3	3
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°	1943.7	1943.7	1943.7	1943.7	1943.7
1°	1940.4	1926.6	1924.5	1942.5	1938.4
2°	1924.9	1911.9	1909.8	1927.8	1924.1
3°	1907.8	1895.9	1891.8	1910.6	1908.2
4°	1884.9	1873.9	1870.2	1889.0	1886.9
5°	1853.1	1841.6	1839.2	1857.5	1855.9
6°	1813.9	1804.5	1800.0	1818.3	1815.1
7°	1764.9	1756.3	1751.4	1764.9	1766.5
8°	1701.2	1697.1	1691.4	1704.8	1704.8
9°	1633.4	1629.7	1623.6	1635.8	1635.8
10°	1560.7	1558.2	1550.9	1562.3	1562.3
11°	1481.1	1479.8	1474.5	1483.9	1483.9
12°	1397.3	1400.2	1395.3	1403.5	1400.6
13°	1313.6	1312.4	1312.8	1318.9	1314.5
14°	1218.9	1226.2	1227.5	1231.1	1224.2
15°	1128.2	1137.6	1135.6	1140.9	1131.9
16°	1035.6	1046.2	1045.8	1047.0	1038.4
17°	949.0	955.1	955.5	954.3	943.7
18°	856.7	865.3	865.3	863.2	850.6
19°	766.5	773.0	777.5	773.0	758.3
20°	685.2	689.7	697.9	686.4	670.1
21°	607.2	611.3	618.2	604.8	586.8
22°	532.5	537.8	544.3	528.8	510.0
23°	462.7	474.9	477.4	456.1	440.2
24°	398.5	412.4	416.5	394.9	378.1
25°	341.4	356.9	366.3	341.0	324.2
26°	292.0	307.1	318.5	293.2	277.3
27°	248.7	264.6	276.4	252.8	237.7
28°	211.5	227.0	239.3	217.2	202.9
29°	183.8	192.7	205.0	186.6	173.5
30°	156.4	166.2	179.3	160.5	149.0
32.5°	107.4	112.7	122.9	111.5	102.5
35°	76.4	79.6	84.5	76.8	71.5
37.5°	54.3	55.9	58.8	54.3	51.5
40°	40.0	40.8	42.1	39.6	38.0
42.5°	29.8	30.2	30.2	29.4	28.6
45°	22.5	22.9	22.5	22.5	21.6
47.5°	16.3	17.6	17.2	17.2	15.9
50°	10.6	13.1	13.1	12.7	10.6
52.5°	6.5	9.0	10.2	9.0	6.9
55°	4.9	6.1	7.8	6.1	5.3
57.5°	4.9	4.9	5.7	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.1	4.5	4.5
72.5°	4.1	4.1	3.7	4.1	3.7
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.5	4.9	4.5



(END OF REPORT)