

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: P283699

Luminaire Tested: **LDA2B159727D010 EU2B15FL409727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283699
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: LDA2B159727D010 EU2B15FL409727 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 813.6 lumens
Efficiency: N/A
Efficacy: 57.7 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

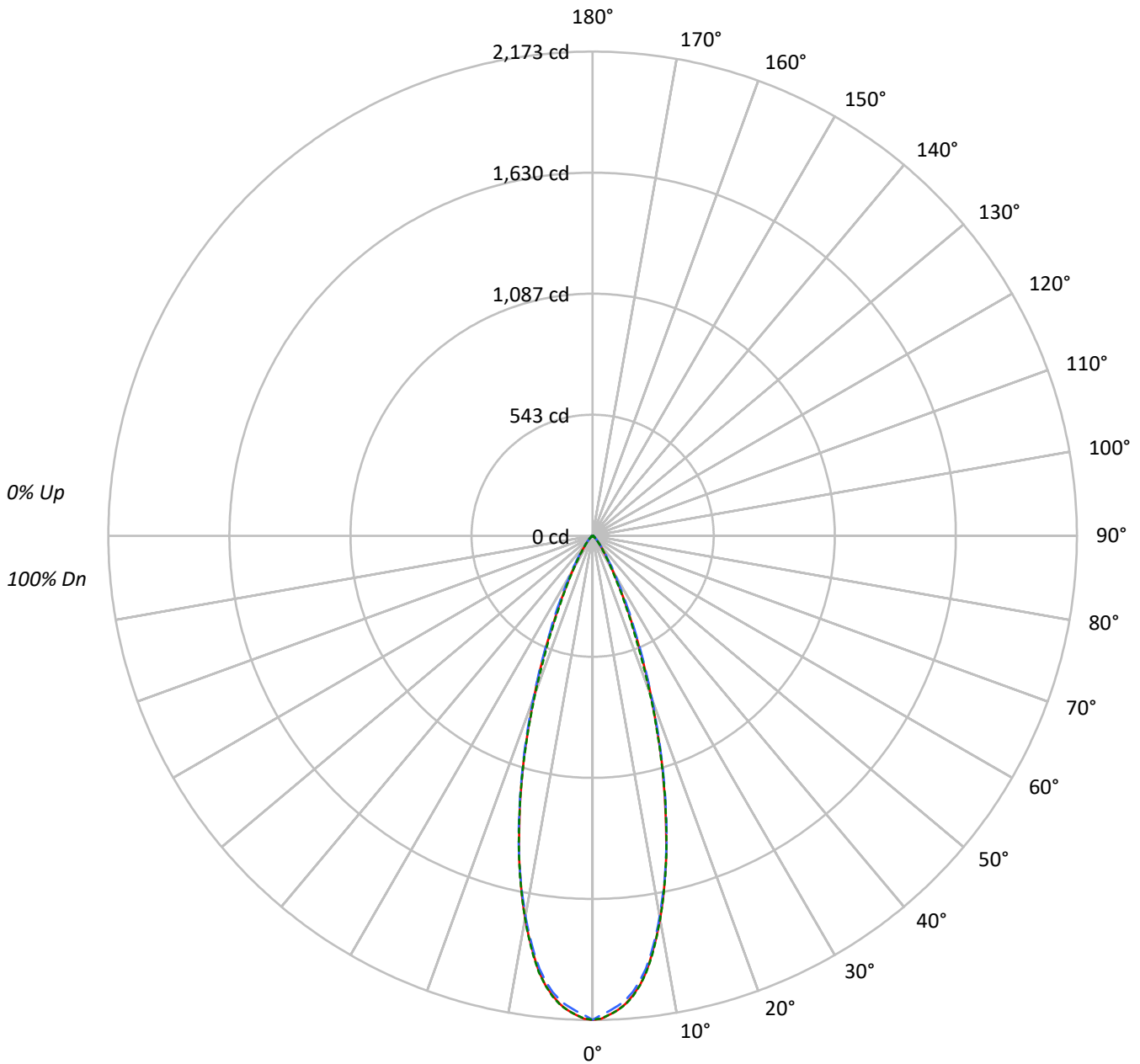
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1071878	1071878	1071878
5°	1025754	1018078	1027339
10°	873897	868436	874849
15°	644127	648315	646221
20°	402116	409519	393243
25°	207729	222863	197278
30°	99581	114165	94910
35°	51435	56916	48122
40°	28789	30270	27307
45°	17513	17513	16885
50°	9134	11206	9134
55°	4731	7483	5075
60°	5427	5427	5427
65°	5837	5837	5837
70°	7212	6635	7212
75°	7053	7053	7053
80°	6535	6535	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	23.0
10°-20°	343.3	42.2
20°-30°	186.1	22.9
30°-40°	59.7	7.3
40°-50°	20.4	2.5
50°-60°	7.1	0.9
60°-70°	5.2	0.6
70°-80°	3.8	0.5
80°-90°	1.1	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°	716.2	88.0
0°-40°	776.0	95.4
0°-60°	803.5	98.8
0°-90°	813.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	813.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2071	2058	2056	2076	2074	187
15°	1261	1272	1269	1275	1265	342
25°	382	399	409	381	362	183
35°	85	89	94	86	80	57
45°	25	26	25	25	24	20
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
75°	4	4	4	4	4	4
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°	2172.6	2172.6	2172.6	2172.6	2172.6
1°	2168.9	2153.4	2151.1	2171.2	2166.6
2°	2151.6	2137.0	2134.7	2154.8	2150.6
3°	2132.4	2119.2	2114.6	2135.6	2132.8
4°	2106.8	2094.5	2090.4	2111.4	2109.1
5°	2071.2	2058.4	2055.7	2076.2	2074.4
6°	2027.4	2016.9	2011.9	2032.4	2028.8
7°	1972.6	1963.1	1957.6	1972.6	1974.5
8°	1901.4	1896.9	1890.5	1905.5	1905.5
9°	1825.7	1821.6	1814.7	1828.4	1828.4
10°	1744.4	1741.7	1733.5	1746.3	1746.3
11°	1655.4	1654.1	1648.1	1658.6	1658.6
12°	1561.9	1565.1	1559.6	1568.7	1565.5
13°	1468.3	1466.9	1467.4	1474.2	1469.2
14°	1362.4	1370.6	1372.0	1376.1	1368.3
15°	1261.1	1271.6	1269.3	1275.2	1265.2
16°	1157.5	1169.3	1168.9	1170.3	1160.7
17°	1060.7	1067.6	1068.0	1066.7	1054.8
18°	957.6	967.2	967.2	964.9	950.7
19°	856.7	864.0	869.0	864.0	847.6
20°	765.9	770.9	780.0	767.2	749.0
21°	678.7	683.3	691.0	676.0	655.9
22°	595.2	601.1	608.4	591.1	570.1
23°	517.1	530.8	533.6	509.8	492.0
24°	445.5	461.0	465.5	441.4	422.6
25°	381.6	398.9	409.4	381.1	362.4
26°	326.3	343.2	356.0	327.7	309.9
27°	278.0	295.8	309.0	282.5	265.6
28°	236.4	253.8	267.5	242.8	226.8
29°	205.4	215.4	229.1	208.6	194.0
30°	174.8	185.8	200.4	179.4	166.6
32.5°	120.0	126.0	137.4	124.6	114.6
35°	85.4	89.0	94.5	85.8	79.9
37.5°	60.7	62.5	65.7	60.7	57.5
40°	44.7	45.6	47.0	44.3	42.4
42.5°	33.3	33.8	33.8	32.9	31.9
45°	25.1	25.6	25.1	25.1	24.2
47.5°	18.3	19.6	19.2	19.2	17.8
50°	11.9	14.6	14.6	14.1	11.9
52.5°	7.3	10.0	11.4	10.0	7.8
55°	5.5	6.8	8.7	6.8	5.9
57.5°	5.5	5.5	6.4	5.5	5.5
60°	5.5	5.5	5.5	5.5	5.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.6	5.0	5.0
72.5°	4.6	4.6	4.1	4.6	4.1
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.4	1.4	1.4	1.8	1.4
85°	0.9	0.9	0.9	0.9	0.9
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°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.0	5.5	5.0



(END OF REPORT)