

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: P283602

Luminaire Tested: **LDA2B109040D010 EU2B10FL409040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283602
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: LDA2B109040D010 EU2B10FL409040 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 740.2 lumens
Efficiency: N/A
Efficacy: 74.0 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

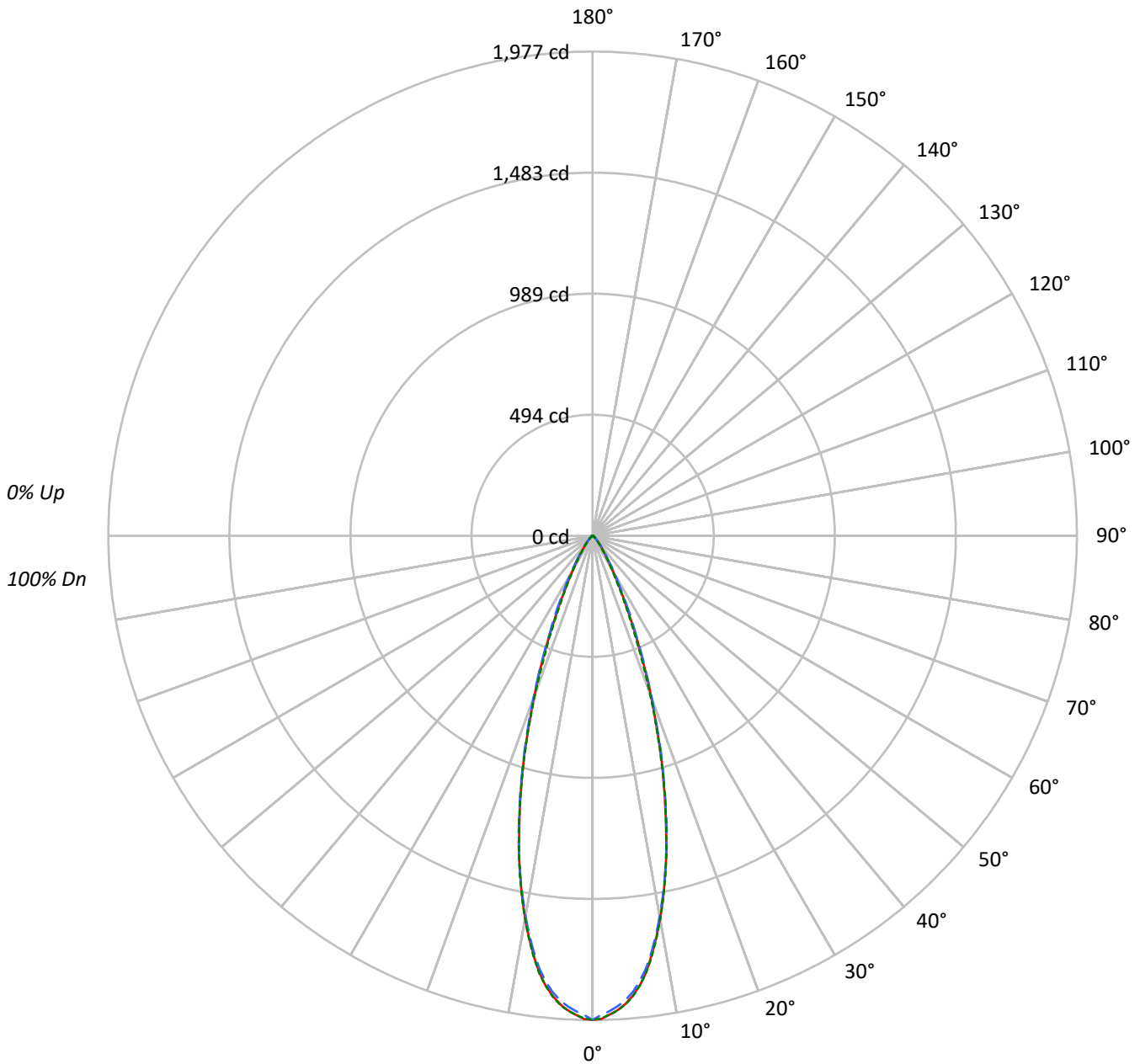
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	975228	975228	975228
5°	933292	926309	934777
10°	795144	790134	795996
15°	586053	589883	587993
20°	365837	372610	357804
25°	189003	202776	179477
30°	90637	103854	86364
35°	46797	51796	43786
40°	26212	27565	24860
45°	15908	15908	15350
50°	8289	10208	8289
55°	4301	6795	4645
60°	4934	4934	4934
65°	5370	5370	5370
70°	6635	6058	6635
75°	6290	6290	6290
80°	5966	5966	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	23.0
10°-20°	312.3	42.2
20°-30°	169.3	22.9
30°-40°	54.4	7.3
40°-50°	18.5	2.5
50°-60°	6.5	0.9
60°-70°	4.7	0.6
70°-80°	3.5	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°	651.7	88.0
0°-40°	706.0	95.4
0°-60°	731.0	98.8
0°-90°	740.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1977	1977	1977	1977	1977	
5°	1884	1873	1870	1889	1888	170
15°	1147	1157	1155	1160	1151	311
25°	347	363	372	347	330	166
35°	78	81	86	78	73	52
45°	23	23	23	23	22	18
55°	5	6	8	6	5	5
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	1976.7	1976.7	1976.7	1976.7	1976.7
1°	1973.4	1959.3	1957.2	1975.5	1971.3
2°	1957.6	1944.3	1942.3	1960.5	1956.8
3°	1940.2	1928.2	1924.0	1943.1	1940.6
4°	1916.9	1905.7	1902.0	1921.1	1919.0
5°	1884.5	1872.9	1870.4	1889.1	1887.5
6°	1844.7	1835.1	1830.6	1849.3	1845.9
7°	1794.8	1786.1	1781.1	1794.8	1796.5
8°	1730.1	1725.9	1720.1	1733.8	1733.8
9°	1661.1	1657.4	1651.2	1663.6	1663.6
10°	1587.2	1584.7	1577.2	1588.9	1588.9
11°	1506.2	1505.0	1499.6	1509.1	1509.1
12°	1421.1	1424.0	1419.0	1427.3	1424.4
13°	1336.0	1334.7	1335.1	1341.4	1336.8
14°	1239.6	1247.1	1248.3	1252.1	1245.0
15°	1147.4	1157.0	1154.9	1160.3	1151.2
16°	1053.2	1064.0	1063.5	1064.8	1056.1
17°	965.1	971.3	971.8	970.5	959.7
18°	871.3	880.0	880.0	877.9	865.0
19°	779.5	786.1	790.7	786.1	771.2
20°	696.8	701.4	709.7	698.1	681.5
21°	617.5	621.7	628.7	615.0	596.8
22°	541.5	546.9	553.6	537.8	518.7
23°	470.5	483.0	485.5	463.9	447.7
24°	405.3	419.4	423.6	401.6	384.6
25°	347.2	363.0	372.5	346.8	329.7
26°	296.9	312.3	323.9	298.2	282.0
27°	252.9	269.1	281.1	257.1	241.7
28°	215.1	230.9	243.4	220.9	206.4
29°	186.9	196.0	208.5	189.8	176.5
30°	159.1	169.0	182.3	163.2	151.6
32.5°	109.2	114.6	125.0	113.4	104.2
35°	77.7	81.0	86.0	78.1	72.7
37.5°	55.2	56.9	59.8	55.2	52.3
40°	40.7	41.5	42.8	40.3	38.6
42.5°	30.3	30.7	30.7	29.9	29.1
45°	22.8	23.3	22.8	22.8	22.0
47.5°	16.6	17.9	17.4	17.4	16.2
50°	10.8	13.3	13.3	12.9	10.8
52.5°	6.6	9.1	10.4	9.1	7.1
55°	5.0	6.2	7.9	6.2	5.4
57.5°	5.0	5.0	5.8	5.0	5.0
60°	5.0	5.0	5.0	5.0	5.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.2	4.6	4.6
72.5°	4.2	4.2	3.7	4.2	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°	2.1	2.1	2.1	2.1	2.1
82.5°	1.2	1.2	1.2	1.7	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°	5.0	5.0	5.0	5.0	5.0
65°	4.6	5.0	4.6	5.0	4.6



(END OF REPORT)