

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: P283618

Luminaire Tested: **LDA2B109730D010 EU2B10FL409730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283618
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: LDA2B109730D010 EU2B10FL409730 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: 697.0 lumens
Efficiency: N/A
Efficacy: 69.7 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

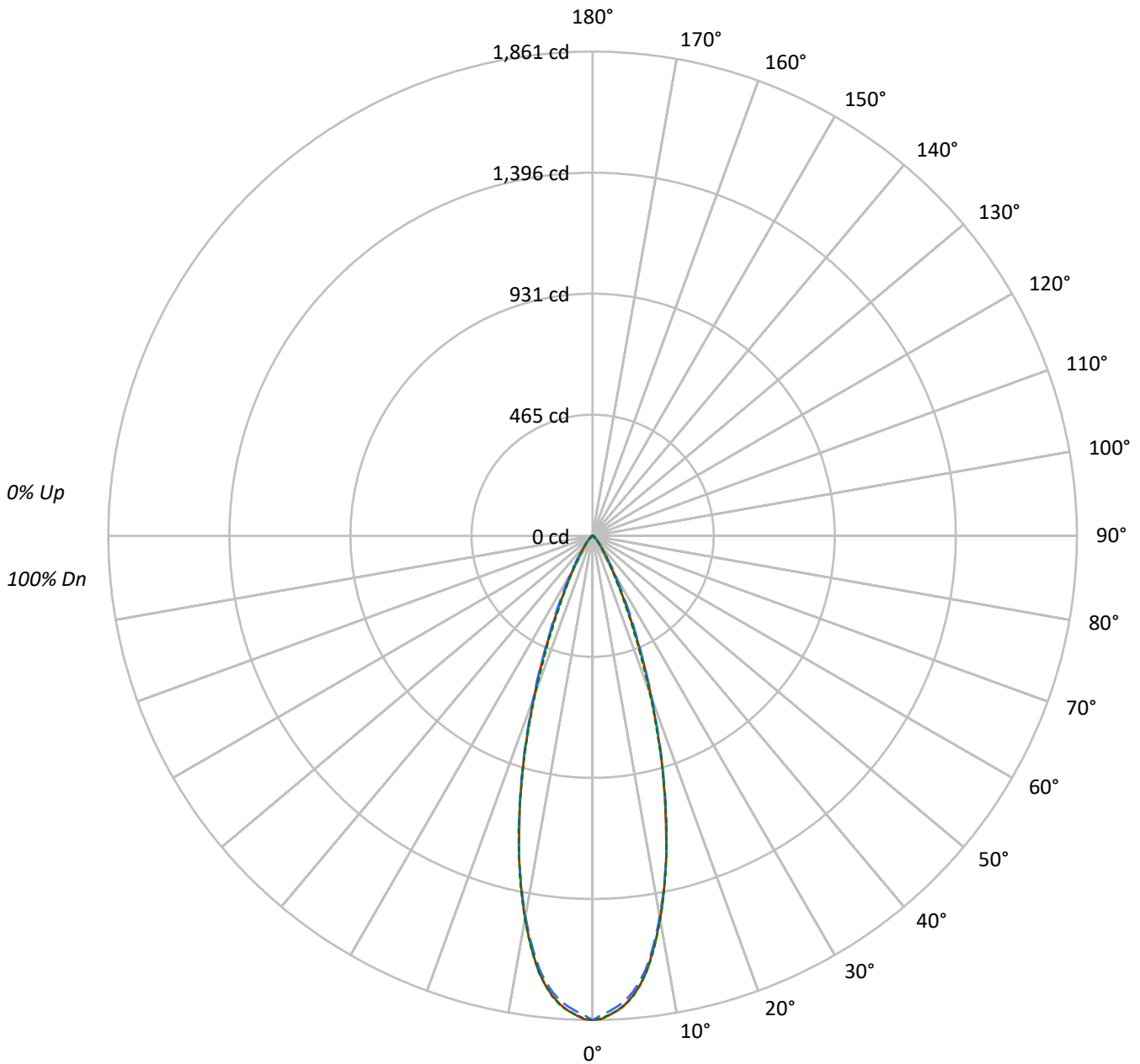
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	918294	918294	918294
5°	878815	872228	880201
10°	748704	744045	749505
15°	551831	555458	553670
20°	344521	350874	336908
25°	177953	190963	169025
30°	85339	97815	81294
35°	44027	48725	41196
40°	24667	25955	23443
45°	15001	15001	14443
50°	7829	9594	7829
55°	4043	6365	4387
60°	4638	4638	4638
65°	5020	5020	5020
70°	6203	5626	6203
75°	5909	5909	5909
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	23.0
10°-20°	294.1	42.2
20°-30°	159.4	22.9
30°-40°	51.2	7.3
40°-50°	17.4	2.5
50°-60°	6.1	0.9
60°-70°	4.5	0.6
70°-80°	3.2	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°	613.6	88.0
0°-40°	664.8	95.4
0°-60°	688.4	98.8
0°-90°	697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1774	1764	1761	1779	1777	160
15°	1080	1089	1088	1093	1084	293
25°	327	342	351	326	310	157
35°	73	76	81	74	68	49
45°	22	22	22	22	21	17
55°	5	6	7	6	5	5
65°	4	5	4	5	4	4
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°	1861.3	1861.3	1861.3	1861.3	1861.3
1°	1858.2	1844.9	1843.0	1860.2	1856.3
2°	1843.4	1830.8	1828.9	1846.1	1842.6
3°	1826.9	1815.6	1811.7	1829.7	1827.3
4°	1805.0	1794.5	1791.0	1808.9	1807.0
5°	1774.5	1763.6	1761.2	1778.8	1777.3
6°	1737.0	1728.0	1723.7	1741.3	1738.2
7°	1690.1	1681.9	1677.2	1690.1	1691.6
8°	1629.1	1625.2	1619.7	1632.6	1632.6
9°	1564.2	1560.6	1554.8	1566.5	1566.5
10°	1494.5	1492.2	1485.2	1496.1	1496.1
11°	1418.3	1417.1	1412.0	1421.0	1421.0
12°	1338.1	1340.9	1336.2	1344.0	1341.3
13°	1258.0	1256.8	1257.2	1263.1	1258.7
14°	1167.2	1174.3	1175.5	1179.0	1172.3
15°	1080.4	1089.4	1087.5	1092.6	1084.0
16°	991.7	1001.8	1001.4	1002.6	994.4
17°	908.8	914.6	915.0	913.9	903.7
18°	820.4	828.6	828.6	826.7	814.5
19°	734.0	740.2	744.5	740.2	726.2
20°	656.2	660.5	668.3	657.3	641.7
21°	581.5	585.4	592.0	579.1	561.9
22°	509.9	515.0	521.3	506.4	488.4
23°	443.0	454.8	457.1	436.8	421.5
24°	381.7	394.9	398.9	378.1	362.1
25°	326.9	341.8	350.8	326.5	310.5
26°	279.6	294.1	305.0	280.8	265.5
27°	238.1	253.4	264.7	242.1	227.6
28°	202.6	217.4	229.1	208.0	194.3
29°	176.0	184.6	196.3	178.7	166.2
30°	149.8	159.2	171.7	153.7	142.7
32.5°	102.8	107.9	117.7	106.8	98.2
35°	73.1	76.3	80.9	73.5	68.4
37.5°	52.0	53.6	56.3	52.0	49.3
40°	38.3	39.1	40.3	37.9	36.4
42.5°	28.5	28.9	28.9	28.2	27.4
45°	21.5	21.9	21.5	21.5	20.7
47.5°	15.6	16.8	16.4	16.4	15.3
50°	10.2	12.5	12.5	12.1	10.2
52.5°	6.3	8.6	9.8	8.6	6.6
55°	4.7	5.9	7.4	5.9	5.1
57.5°	4.7	4.7	5.5	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.5	3.9	3.5
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
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°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.3	4.7	4.3



(END OF REPORT)