

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: P283590

Luminaire Tested: **LDA2B109030D010 EU2B10FL409030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283590
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: LDA2B109030D010 EU2B10FL409030 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: 698.2 lumens
Efficiency: N/A
Efficacy: 69.8 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

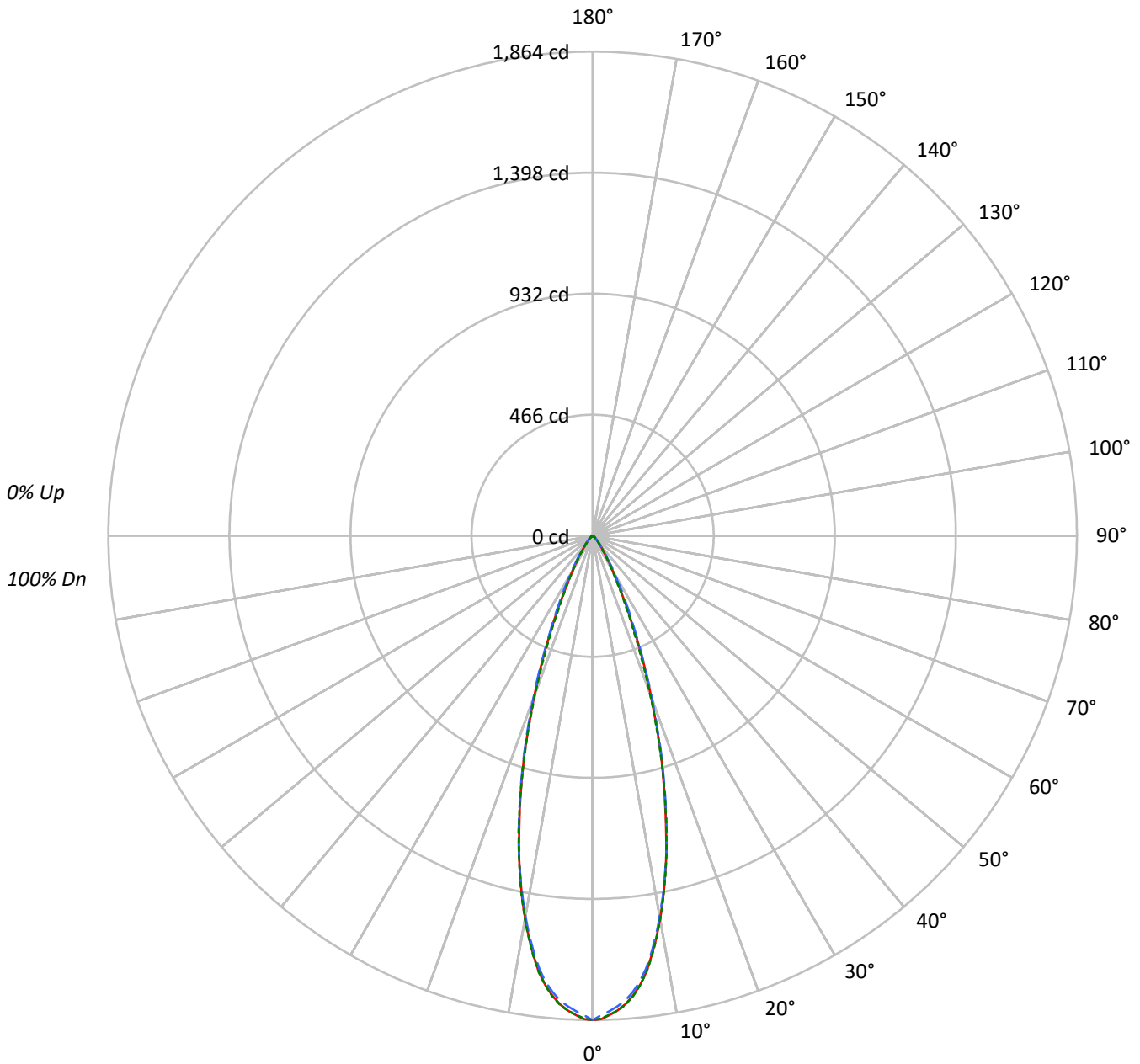
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	919824	919824	919824
5°	880300	873714	881638
10°	749956	745247	750758
15°	552751	556377	554589
20°	345099	351451	337486
25°	178279	191235	169297
30°	85453	97986	81465
35°	44087	48845	41256
40°	24731	25955	23443
45°	15001	15001	14513
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°	160.4	23.0
10°-20°	294.6	42.2
20°-30°	159.7	22.9
30°-40°	51.3	7.3
40°-50°	17.5	2.5
50°-60°	6.1	0.9
60°-70°	4.5	0.6
70°-80°	3.3	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°	614.6	88.0
0°-40°	665.9	95.4
0°-60°	689.5	98.8
0°-90°	698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1778	1766	1764	1782	1780	161
15°	1082	1091	1089	1094	1086	293
25°	328	342	351	327	311	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°	1864.4	1864.4	1864.4	1864.4	1864.4
1°	1861.3	1848.0	1846.0	1863.3	1859.3
2°	1846.4	1833.9	1831.9	1849.2	1845.6
3°	1830.0	1818.6	1814.7	1832.7	1830.4
4°	1808.0	1797.5	1793.9	1811.9	1810.0
5°	1777.5	1766.5	1764.2	1781.8	1780.2
6°	1739.9	1730.9	1726.6	1744.2	1741.1
7°	1692.9	1684.6	1679.9	1692.9	1694.4
8°	1631.8	1627.9	1622.4	1635.3	1635.3
9°	1566.8	1563.2	1557.4	1569.1	1569.1
10°	1497.0	1494.7	1487.6	1498.6	1498.6
11°	1420.7	1419.5	1414.4	1423.4	1423.4
12°	1340.4	1343.1	1338.4	1346.2	1343.5
13°	1260.1	1258.9	1259.3	1265.2	1260.8
14°	1169.2	1176.2	1177.4	1180.9	1174.3
15°	1082.2	1091.2	1089.3	1094.4	1085.8
16°	993.3	1003.5	1003.1	1004.3	996.1
17°	910.3	916.2	916.5	915.4	905.2
18°	821.8	830.0	830.0	828.0	815.9
19°	735.2	741.5	745.8	741.5	727.4
20°	657.3	661.6	669.4	658.4	642.8
21°	582.4	586.4	593.0	580.1	562.9
22°	510.8	515.9	522.1	507.2	489.2
23°	443.8	455.5	457.9	437.5	422.2
24°	382.3	395.6	399.5	378.8	362.7
25°	327.5	342.3	351.3	327.1	311.0
26°	280.1	294.5	305.5	281.2	266.0
27°	238.5	253.8	265.2	242.5	228.0
28°	202.9	217.8	229.5	208.4	194.7
29°	176.3	184.9	196.6	179.0	166.5
30°	150.0	159.4	172.0	153.9	143.0
32.5°	103.0	108.1	117.9	106.9	98.3
35°	73.2	76.4	81.1	73.6	68.5
37.5°	52.1	53.7	56.4	52.1	49.4
40°	38.4	39.2	40.3	38.0	36.4
42.5°	28.6	29.0	29.0	28.2	27.4
45°	21.5	21.9	21.5	21.5	20.8
47.5°	15.7	16.8	16.5	16.5	15.3
50°	10.2	12.5	12.5	12.1	10.2
52.5°	6.3	8.6	9.8	8.6	6.7
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°	2.4	2.4	2.4	2.4	2.4
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)