

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: P283589

Luminaire Tested: **LDA2B109030D010 EU2B10FL409030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283589
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 724.9 lumens
Efficiency: N/A
Efficacy: 72.5 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

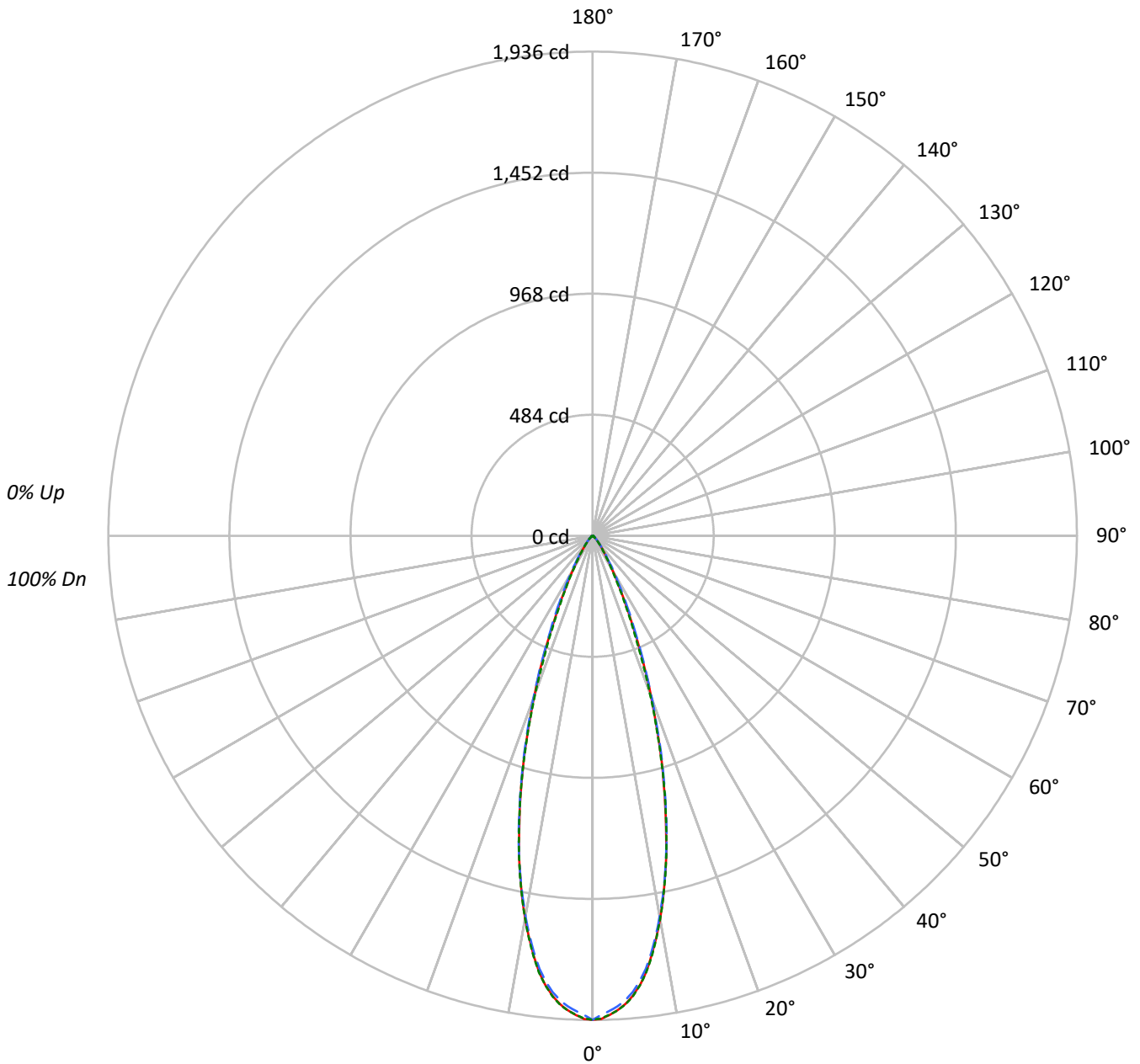
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	955050	955050	955050
5°	913977	907143	915413
10°	778662	773802	779514
15°	573947	577676	575786
20°	358277	364892	350401
25°	185084	198584	175775
30°	88757	101689	84541
35°	45774	50712	42883
40°	25697	26985	24345
45°	15629	15629	15071
50°	8136	9978	8136
55°	4215	6623	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°	166.5	23.0
10°-20°	305.8	42.2
20°-30°	165.8	22.9
30°-40°	53.2	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°	638.2	88.0
0°-40°	691.4	95.4
0°-60°	715.9	98.8
0°-90°	724.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1846	1834	1832	1850	1848	167
15°	1124	1133	1131	1136	1127	305
25°	340	355	365	340	323	163
35°	76	79	84	76	71	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°	1935.8	1935.8	1935.8	1935.8	1935.8
1°	1932.5	1918.7	1916.7	1934.6	1930.5
2°	1917.1	1904.1	1902.0	1919.9	1916.3
3°	1900.0	1888.2	1884.1	1902.8	1900.4
4°	1877.2	1866.2	1862.6	1881.3	1879.3
5°	1845.5	1834.1	1831.7	1850.0	1848.4
6°	1806.5	1797.1	1792.6	1810.9	1807.7
7°	1757.7	1749.1	1744.2	1757.7	1759.3
8°	1694.2	1690.2	1684.5	1697.9	1697.9
9°	1626.7	1623.1	1617.0	1629.2	1629.2
10°	1554.3	1551.9	1544.6	1556.0	1556.0
11°	1475.0	1473.8	1468.5	1477.9	1477.9
12°	1391.7	1394.5	1389.6	1397.8	1394.9
13°	1308.3	1307.1	1307.5	1313.6	1309.1
14°	1213.9	1221.3	1222.5	1226.1	1219.2
15°	1123.7	1133.0	1131.0	1136.3	1127.3
16°	1031.3	1041.9	1041.5	1042.7	1034.2
17°	945.1	951.2	951.6	950.4	939.8
18°	853.2	861.8	861.8	859.7	847.1
19°	763.3	769.8	774.3	769.8	755.2
20°	682.4	686.9	695.0	683.6	667.4
21°	604.7	608.8	615.7	602.3	584.4
22°	530.3	535.6	542.1	526.6	507.9
23°	460.8	473.0	475.4	454.3	438.4
24°	396.9	410.7	414.8	393.3	376.6
25°	340.0	355.4	364.8	339.6	322.9
26°	290.8	305.8	317.2	292.0	276.1
27°	247.7	263.5	275.3	251.7	236.7
28°	210.7	226.1	238.3	216.4	202.1
29°	183.0	192.0	204.2	185.9	172.8
30°	155.8	165.5	178.5	159.8	148.4
32.5°	107.0	112.2	122.4	111.0	102.1
35°	76.0	79.3	84.2	76.5	71.2
37.5°	54.1	55.7	58.6	54.1	51.2
40°	39.9	40.7	41.9	39.4	37.8
42.5°	29.7	30.1	30.1	29.3	28.5
45°	22.4	22.8	22.4	22.4	21.6
47.5°	16.3	17.5	17.1	17.1	15.9
50°	10.6	13.0	13.0	12.6	10.6
52.5°	6.5	8.9	10.2	8.9	6.9
55°	4.9	6.1	7.7	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°	2.4	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°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.5	4.9	4.5



(END OF REPORT)