

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: P283573

Luminaire Tested: **LDA2B108050D010 EU2B10FL408050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283573
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: LDA2B108050D010 EU2B10FL408050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 919.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

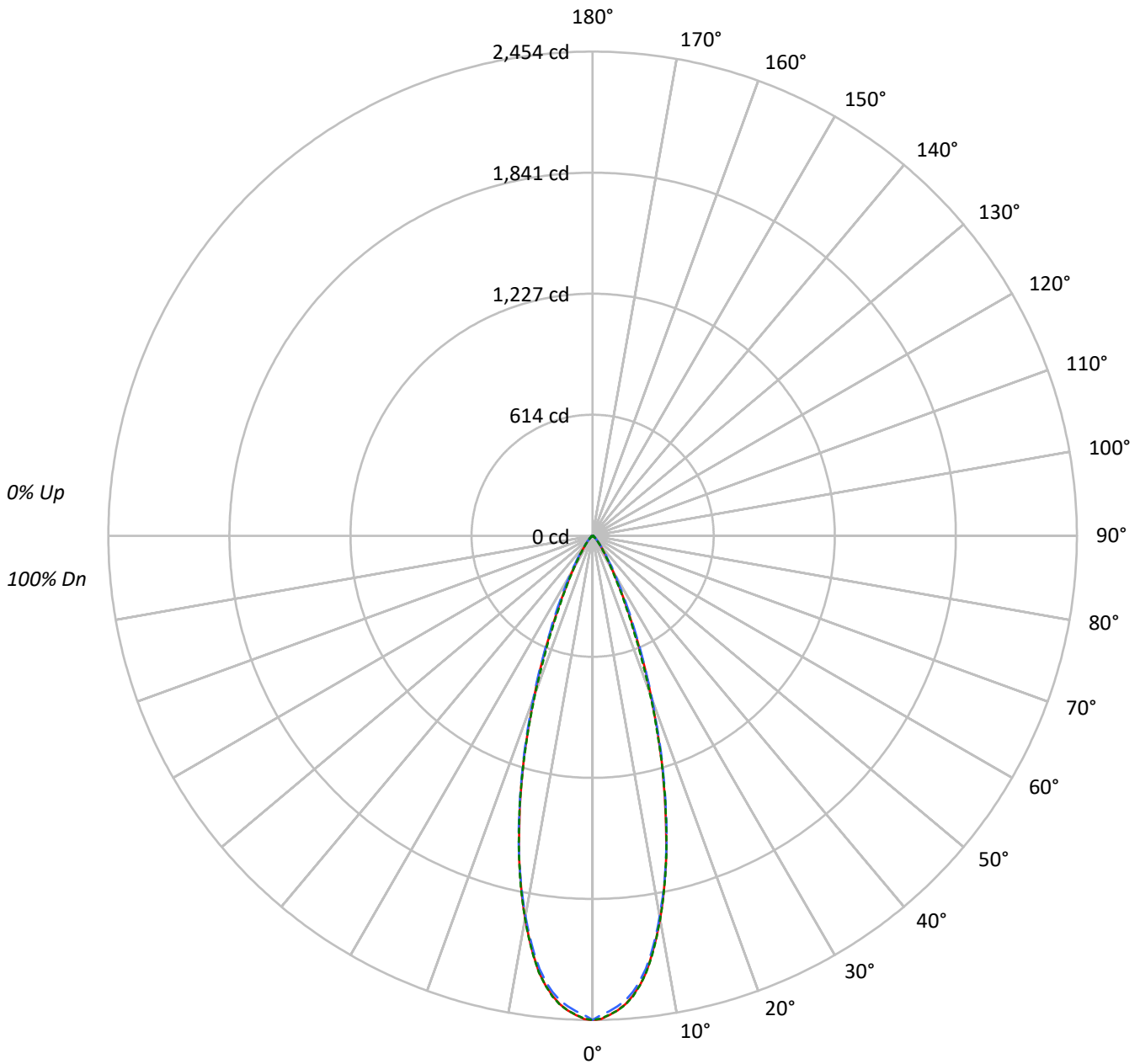
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1210759	1210759	1210759
5°	1158728	1150012	1160511
10°	987167	980955	988219
15°	727586	732336	729986
20°	454199	462599	444223
25°	234621	251769	222863
30°	112513	128920	107215
35°	58060	64264	54326
40°	32524	34198	30849
45°	19815	19815	19048
50°	10285	12664	10285
55°	5333	8429	5763
60°	6118	6118	6118
65°	6654	6654	6654
70°	8222	7501	8222
75°	7815	7815	7815
80°	7387	7387	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	23.0
10°-20°	387.7	42.2
20°-30°	210.2	22.9
30°-40°	67.5	7.3
40°-50°	23.0	2.5
50°-60°	8.1	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.5
80°-90°	1.2	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°	809.0	88.0
0°-40°	876.5	95.4
0°-60°	907.6	98.8
0°-90°	919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2340	2325	2322	2345	2343	212
15°	1424	1436	1434	1440	1429	386
25°	431	451	462	430	409	207
35°	96	100	107	97	90	65
45°	28	29	28	28	27	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
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°	2454.1	2454.1	2454.1	2454.1	2454.1
1°	2450.0	2432.5	2429.9	2452.6	2447.4
2°	2430.4	2413.9	2411.3	2434.0	2429.4
3°	2408.8	2393.8	2388.6	2412.4	2409.3
4°	2379.9	2366.0	2361.3	2385.0	2382.5
5°	2339.7	2325.2	2322.1	2345.3	2343.3
6°	2290.2	2278.3	2272.6	2295.8	2291.7
7°	2228.3	2217.5	2211.3	2228.3	2230.4
8°	2147.9	2142.7	2135.5	2152.5	2152.5
9°	2062.3	2057.6	2049.9	2065.4	2065.4
10°	1970.5	1967.4	1958.1	1972.6	1972.6
11°	1870.0	1868.4	1861.7	1873.6	1873.6
12°	1764.3	1767.9	1761.7	1772.0	1768.4
13°	1658.6	1657.0	1657.6	1665.3	1659.6
14°	1539.0	1548.3	1549.8	1554.5	1545.7
15°	1424.5	1436.4	1433.8	1440.5	1429.2
16°	1307.5	1320.9	1320.4	1321.9	1311.1
17°	1198.2	1205.9	1206.4	1204.9	1191.5
18°	1081.7	1092.5	1092.5	1089.9	1073.9
19°	967.7	976.0	981.6	976.0	957.4
20°	865.1	870.8	881.1	866.7	846.1
21°	766.7	771.8	780.6	763.6	740.9
22°	672.3	679.0	687.3	667.7	643.9
23°	584.1	599.6	602.7	575.9	555.8
24°	503.2	520.7	525.9	498.6	477.4
25°	431.0	450.6	462.5	430.5	409.4
26°	368.6	387.7	402.1	370.2	350.1
27°	314.0	334.1	349.0	319.1	300.1
28°	267.1	286.7	302.1	274.3	256.2
29°	232.0	243.4	258.8	235.6	219.1
30°	197.5	209.8	226.3	202.6	188.2
32.5°	135.6	142.3	155.2	140.8	129.4
35°	96.4	100.5	106.7	96.9	90.2
37.5°	68.6	70.6	74.2	68.6	65.0
40°	50.5	51.6	53.1	50.0	47.9
42.5°	37.6	38.2	38.2	37.1	36.1
45°	28.4	28.9	28.4	28.4	27.3
47.5°	20.6	22.2	21.7	21.7	20.1
50°	13.4	16.5	16.5	16.0	13.4
52.5°	8.2	11.3	12.9	11.3	8.8
55°	6.2	7.7	9.8	7.7	6.7
57.5°	6.2	6.2	7.2	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.2	5.7	5.7
72.5°	5.2	5.2	4.6	5.2	4.6
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.5	1.5	1.5	2.1	1.5
85°	1.0	1.0	1.0	1.0	1.0
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°	6.2	6.2	6.2	6.2	6.2
65°	5.7	6.2	5.7	6.2	5.7



(END OF REPORT)