

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: P283561

Luminaire Tested: **LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283561
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: LDA2B108035D010 EU2B10FL408035 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: 888.7 lumens
Efficiency: N/A
Efficacy: 88.9 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

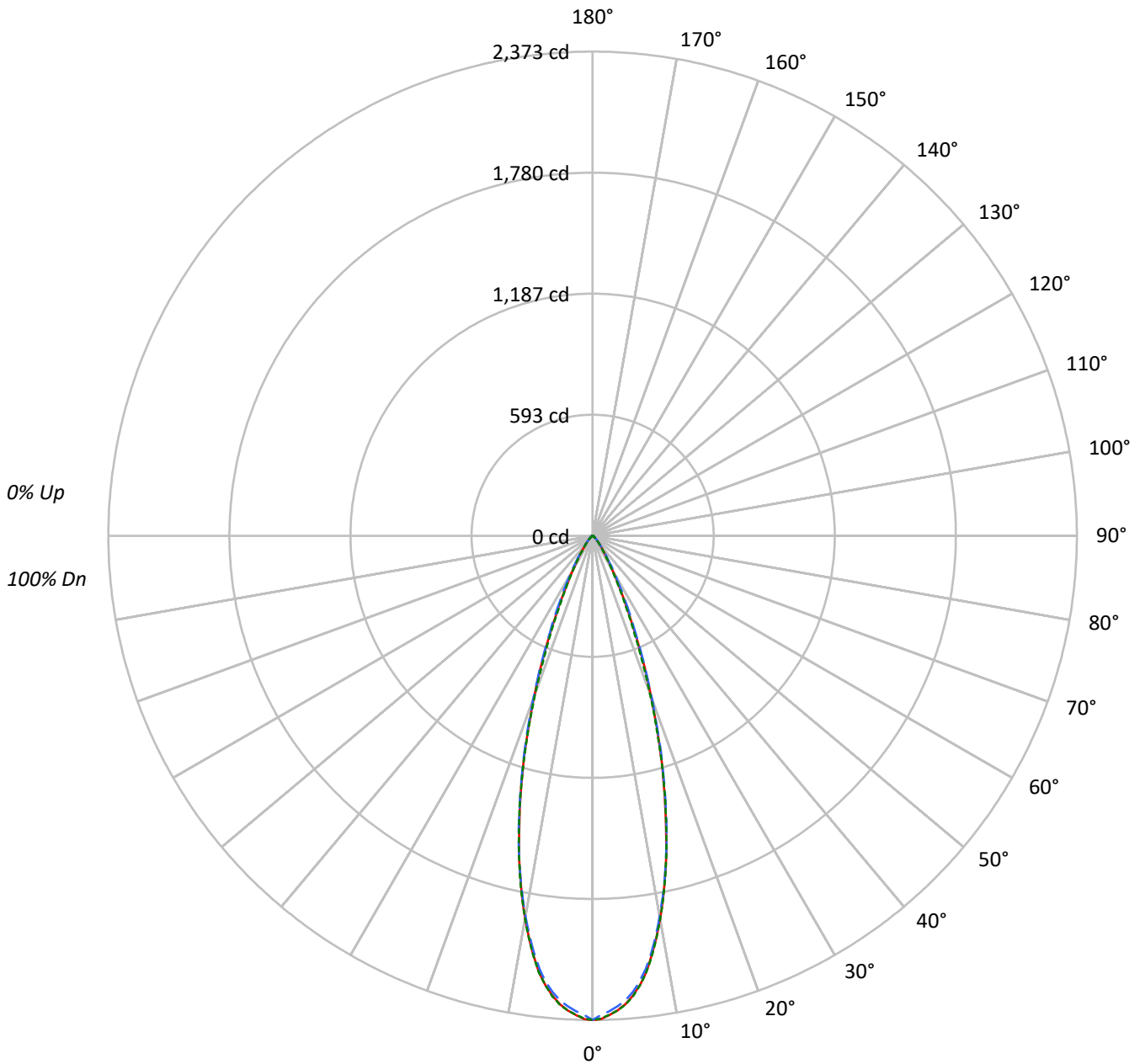
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1170846	1170846	1170846
5°	1120495	1112076	1122228
10°	954603	948592	955605
15°	703580	708177	705878
20°	439236	447321	429523
25°	226891	243440	215514
30°	108753	124704	103683
35°	56133	62156	52519
40°	31493	33104	29883
45°	19117	19117	18420
50°	9978	12281	9978
55°	5161	8171	5591
60°	5920	5920	5920
65°	6421	6421	6421
70°	7934	7212	7934
75°	7625	7625	7625
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	23.0
10°-20°	374.9	42.2
20°-30°	203.3	22.9
30°-40°	65.3	7.3
40°-50°	22.2	2.5
50°-60°	7.8	0.9
60°-70°	5.7	0.6
70°-80°	4.2	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°	782.4	88.0
0°-40°	847.6	95.4
0°-60°	877.7	98.8
0°-90°	888.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2373	2373	2373	2373	2373	
5°	2262	2248	2246	2268	2266	205
15°	1378	1389	1386	1393	1382	373
25°	417	436	447	416	396	200
35°	93	97	103	94	87	63
45°	27	28	27	27	26	22
55°	6	8	10	8	6	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°	2373.2	2373.2	2373.2	2373.2	2373.2
1°	2369.2	2352.2	2349.7	2371.7	2366.7
2°	2350.2	2334.3	2331.8	2353.7	2349.2
3°	2329.3	2314.8	2309.8	2332.8	2329.8
4°	2301.4	2287.9	2283.4	2306.4	2303.9
5°	2262.5	2248.5	2245.5	2268.0	2266.0
6°	2214.6	2203.2	2197.7	2220.1	2216.1
7°	2154.8	2144.3	2138.3	2154.8	2156.8
8°	2077.0	2072.0	2065.1	2081.5	2081.5
9°	1994.3	1989.8	1982.3	1997.2	1997.2
10°	1905.5	1902.5	1893.5	1907.5	1907.5
11°	1808.3	1806.8	1800.3	1811.8	1811.8
12°	1706.1	1709.6	1703.6	1713.6	1710.1
13°	1603.9	1602.4	1602.9	1610.4	1604.9
14°	1488.2	1497.2	1498.7	1503.2	1494.7
15°	1377.5	1389.0	1386.5	1393.0	1382.0
16°	1264.4	1277.3	1276.8	1278.3	1267.8
17°	1158.7	1166.1	1166.6	1165.1	1152.2
18°	1046.0	1056.5	1056.5	1054.0	1038.5
19°	935.8	943.8	949.3	943.8	925.8
20°	836.6	842.1	852.0	838.1	818.1
21°	741.4	746.4	754.8	738.4	716.4
22°	650.1	656.6	664.6	645.6	622.7
23°	564.9	579.8	582.8	556.9	537.5
24°	486.6	503.5	508.5	482.1	461.7
25°	416.8	435.7	447.2	416.3	395.9
26°	356.5	374.9	388.9	358.0	338.5
27°	303.6	323.1	337.5	308.6	290.2
28°	258.3	277.2	292.2	265.2	247.8
29°	224.4	235.3	250.3	227.8	211.9
30°	190.9	202.9	218.9	195.9	182.0
32.5°	131.1	137.6	150.1	136.1	125.1
35°	93.2	97.2	103.2	93.7	87.2
37.5°	66.3	68.3	71.8	66.3	62.8
40°	48.9	49.9	51.4	48.4	46.4
42.5°	36.4	36.9	36.9	35.9	34.9
45°	27.4	27.9	27.4	27.4	26.4
47.5°	19.9	21.4	20.9	20.9	19.4
50°	13.0	16.0	16.0	15.5	13.0
52.5°	8.0	11.0	12.5	11.0	8.5
55°	6.0	7.5	9.5	7.5	6.5
57.5°	6.0	6.0	7.0	6.0	6.0
60°	6.0	6.0	6.0	6.0	6.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.0	5.5	5.5
72.5°	5.0	5.0	4.5	5.0	4.5
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	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°	6.0	6.0	6.0	6.0	6.0
65°	5.5	6.0	5.5	6.0	5.5



(END OF REPORT)