

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: P283548

Luminaire Tested: **LDA2B108027D010 EU2B10FL408027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283548
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: LDA2B108027D010 EU2B10FL408027 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: 849.2 lumens
Efficiency: N/A
Efficacy: 84.9 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

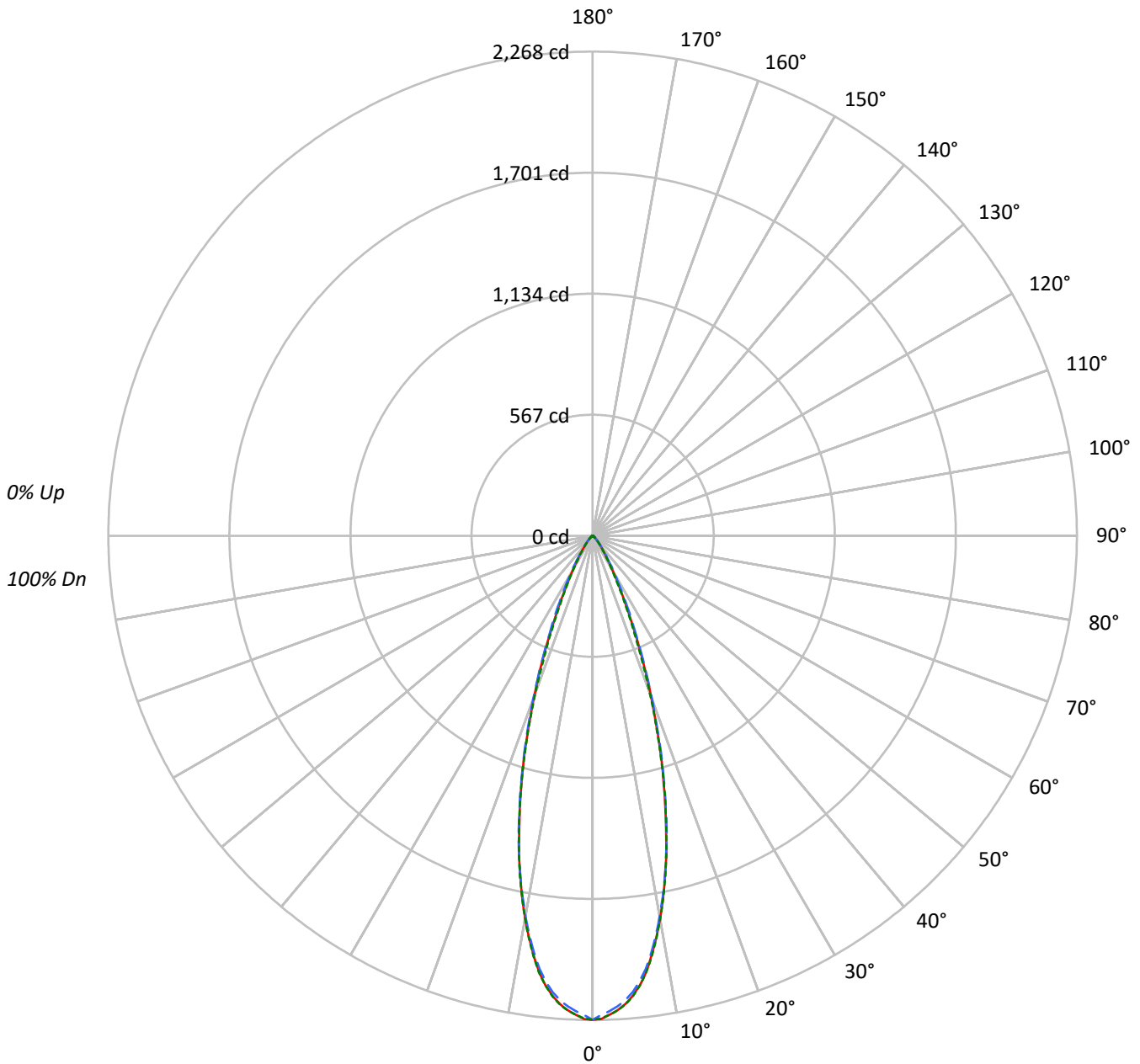
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1118797	1118797	1118797
5°	1070723	1062700	1072357
10°	912221	906460	913173
15°	672321	676713	674517
20°	419705	427475	410464
25°	216820	232607	205933
30°	103968	119121	99068
35°	53663	59385	50230
40°	30077	31622	28531
45°	18280	18280	17583
50°	9517	11667	9517
55°	4903	7827	5333
60°	5624	5624	5624
65°	6070	6070	6070
70°	7501	6924	7501
75°	7244	7244	7244
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	23.0
10°-20°	358.3	42.2
20°-30°	194.3	22.9
30°-40°	62.4	7.3
40°-50°	21.3	2.5
50°-60°	7.4	0.9
60°-70°	5.4	0.6
70°-80°	4.0	0.5
80°-90°	1.1	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°	747.6	88.0
0°-40°	810.0	95.4
0°-60°	838.7	98.8
0°-90°	849.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2162	2149	2146	2167	2165	196
15°	1316	1327	1325	1331	1321	357
25°	398	416	427	398	378	191
35°	89	93	99	90	83	60
45°	26	27	26	26	25	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
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°	2267.7	2267.7	2267.7	2267.7	2267.7
1°	2263.9	2247.7	2245.3	2266.3	2261.5
2°	2245.8	2230.6	2228.2	2249.1	2244.9
3°	2225.8	2212.0	2207.2	2229.1	2226.3
4°	2199.1	2186.3	2182.0	2203.9	2201.5
5°	2162.0	2148.6	2145.8	2167.2	2165.3
6°	2116.2	2105.3	2100.0	2121.5	2117.7
7°	2059.1	2049.1	2043.3	2059.1	2061.0
8°	1984.7	1980.0	1973.3	1989.0	1989.0
9°	1905.7	1901.4	1894.2	1908.5	1908.5
10°	1820.9	1818.0	1809.4	1822.8	1822.8
11°	1728.0	1726.5	1720.3	1731.3	1731.3
12°	1630.3	1633.6	1627.9	1637.4	1634.1
13°	1532.6	1531.2	1531.7	1538.8	1533.6
14°	1422.1	1430.7	1432.1	1436.4	1428.3
15°	1316.3	1327.3	1324.9	1331.1	1320.6
16°	1208.2	1220.6	1220.1	1221.5	1211.5
17°	1107.2	1114.3	1114.8	1113.4	1101.0
18°	999.5	1009.5	1009.5	1007.1	992.4
19°	894.2	901.9	907.1	901.9	884.7
20°	799.4	804.7	814.2	800.9	781.8
21°	708.4	713.2	721.3	705.6	684.6
22°	621.2	627.4	635.1	617.0	595.0
23°	539.8	554.1	556.9	532.2	513.6
24°	465.0	481.2	485.9	460.7	441.2
25°	398.3	416.4	427.3	397.8	378.3
26°	340.6	358.3	371.6	342.1	323.5
27°	290.1	308.7	322.5	294.9	277.3
28°	246.8	264.9	279.2	253.5	236.8
29°	214.4	224.9	239.2	217.7	202.5
30°	182.5	193.9	209.1	187.2	173.9
32.5°	125.3	131.5	143.4	130.1	119.6
35°	89.1	92.9	98.6	89.6	83.4
37.5°	63.4	65.3	68.6	63.4	60.0
40°	46.7	47.6	49.1	46.2	44.3
42.5°	34.8	35.3	35.3	34.3	33.3
45°	26.2	26.7	26.2	26.2	25.2
47.5°	19.1	20.5	20.0	20.0	18.6
50°	12.4	15.2	15.2	14.8	12.4
52.5°	7.6	10.5	11.9	10.5	8.1
55°	5.7	7.1	9.1	7.1	6.2
57.5°	5.7	5.7	6.7	5.7	5.7
60°	5.7	5.7	5.7	5.7	5.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.8	5.2	5.2
72.5°	4.8	4.8	4.3	4.8	4.3
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.4	1.4	1.4	1.9	1.4
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°	5.7	5.7	5.7	5.7	5.7
65°	5.2	5.7	5.2	5.7	5.2



(END OF REPORT)