

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: P283655

Luminaire Tested: **LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283655
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: LDA2B158050D010 EU2B15FL408050 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 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: 1250.2 lumens
Efficiency: N/A
Efficacy: 88.7 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

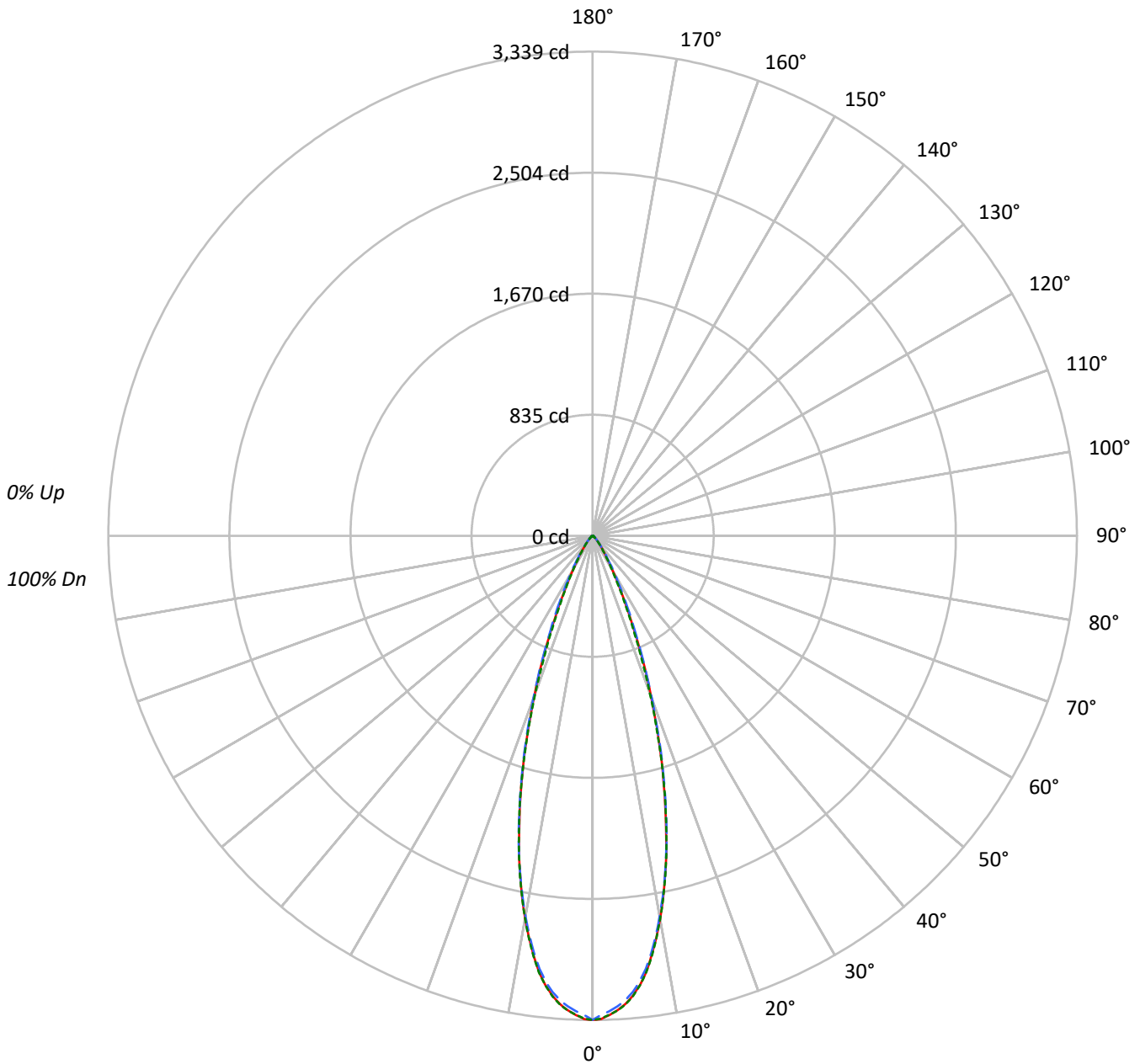
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1647286	1647286	1647286
5°	1576468	1564632	1578895
10°	1343058	1334641	1344460
15°	989915	996351	993133
20°	617954	629400	604356
25°	319215	342514	303157
30°	153074	175406	145839
35°	79020	87452	73960
40°	44245	46500	41991
45°	26932	26932	25955
50°	13969	17193	13969
55°	7225	11440	7827
60°	8288	8288	8288
65°	8989	8989	8989
70°	11107	10097	11107
75°	10675	10675	10675
80°	9944	9944	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	23.0
10°-20°	527.5	42.2
20°-30°	286.0	22.9
30°-40°	91.8	7.3
40°-50°	31.3	2.5
50°-60°	10.9	0.9
60°-70°	8.0	0.6
70°-80°	5.8	0.5
80°-90°	1.7	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°	1100.7	88.0
0°-40°	1192.5	95.4
0°-60°	1234.8	98.8
0°-90°	1250.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3339	3339	3339	3339	3339	
5°	3183	3164	3159	3191	3188	288
15°	1938	1954	1951	1960	1944	525
25°	586	613	629	586	557	281
35°	131	137	145	132	123	88
45°	39	39	39	39	37	31
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3338.9	3338.9	3338.9	3338.9	3338.9
1°	3333.3	3309.4	3305.9	3336.8	3329.8
2°	3306.6	3284.2	3280.7	3311.5	3305.2
3°	3277.2	3256.8	3249.8	3282.1	3277.9
4°	3237.9	3218.9	3212.6	3244.9	3241.4
5°	3183.2	3163.5	3159.3	3190.9	3188.1
6°	3115.8	3099.7	3092.0	3123.5	3117.9
7°	3031.7	3016.9	3008.5	3031.7	3034.5
8°	2922.2	2915.2	2905.4	2928.5	2928.5
9°	2805.8	2799.5	2789.0	2810.0	2810.0
10°	2680.9	2676.7	2664.1	2683.7	2683.7
11°	2544.2	2542.0	2532.9	2549.1	2549.1
12°	2400.4	2405.3	2396.8	2410.9	2406.0
13°	2256.6	2254.5	2255.2	2265.7	2258.0
14°	2093.8	2106.4	2108.6	2114.9	2102.9
15°	1938.1	1954.2	1950.7	1959.8	1944.4
16°	1778.9	1797.1	1796.4	1798.5	1783.8
17°	1630.2	1640.7	1641.4	1639.3	1621.0
18°	1471.6	1486.4	1486.4	1482.9	1461.1
19°	1316.6	1327.8	1335.6	1327.8	1302.6
20°	1177.0	1184.7	1198.8	1179.1	1151.1
21°	1043.1	1050.1	1062.0	1038.8	1008.0
22°	914.7	923.8	935.0	908.4	876.1
23°	794.7	815.8	820.0	783.5	756.2
24°	684.6	708.5	715.5	678.3	649.5
25°	586.4	613.1	629.2	585.7	556.9
26°	501.5	527.5	547.1	503.6	476.3
27°	427.2	454.5	474.9	434.2	408.2
28°	363.3	390.0	411.0	373.2	348.6
29°	315.7	331.1	352.1	320.6	298.1
30°	268.7	285.5	307.9	275.7	256.0
32.5°	184.5	193.6	211.1	191.5	176.1
35°	131.2	136.8	145.2	131.9	122.8
37.5°	93.3	96.1	101.0	93.3	88.4
40°	68.7	70.1	72.2	68.0	65.2
42.5°	51.2	51.9	51.9	50.5	49.1
45°	38.6	39.3	38.6	38.6	37.2
47.5°	28.1	30.2	29.5	29.5	27.4
50°	18.2	22.4	22.4	21.7	18.2
52.5°	11.2	15.4	17.5	15.4	11.9
55°	8.4	10.5	13.3	10.5	9.1
57.5°	8.4	8.4	9.8	8.4	8.4
60°	8.4	8.4	8.4	8.4	8.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.7	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.0	7.7	7.7
72.5°	7.0	7.0	6.3	7.0	6.3
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.5	3.5	3.5	3.5	3.5
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.7	8.4	7.7	8.4	7.7



(END OF REPORT)