

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: P282667

Luminaire Tested: **LDA2B108030D010 EU2B10NFL258030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108030D010 EU2B10NFL258030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 917.2 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

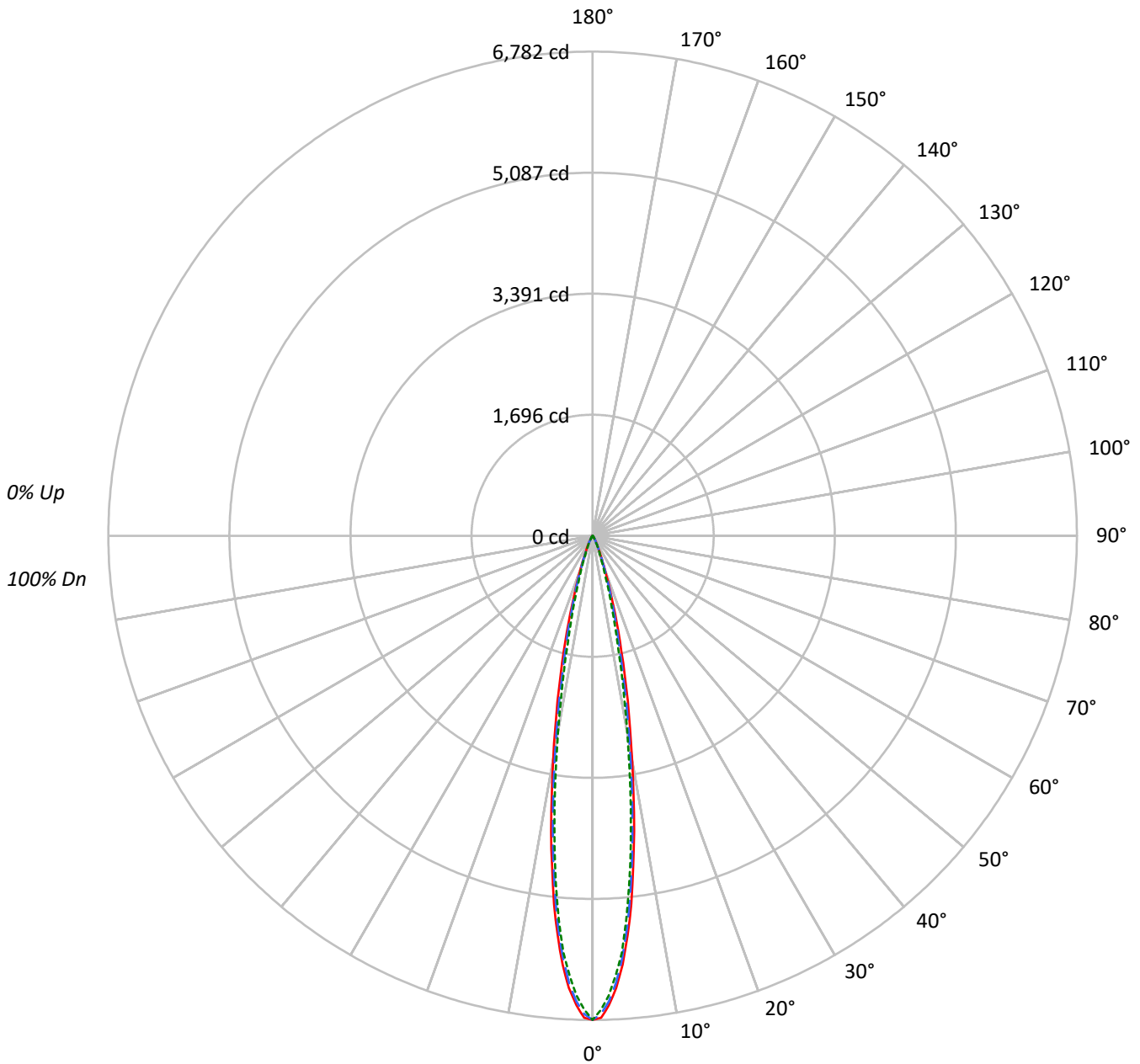
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3345930	3345930	3345930
5°	2784176	2733166	2677946
10°	1594746	1496506	1396662
15°	709300	629978	527927
20°	257315	241931	191686
25°	98802	92270	79423
30°	42612	39650	35150
35°	20176	20176	16683
40°	10111	10433	8437
45°	5861	5442	5093
50°	3991	3607	3607
55°	3183	2236	2666
60°	2565	1579	2072
65°	1868	1167	1868
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.1	48.1
10°-20°	357.0	38.9
20°-30°	86.1	9.4
30°-40°	21.9	2.4
40°-50°	6.5	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	884.1	96.4
0°-40°	906.1	98.8
0°-60°	915.4	99.8
0°-90°	917.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	917.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6782	6782	6782	6782	6782	
5°	5622	5570	5519	5471	5407	455
15°	1389	1356	1233	1111	1034	396
25°	182	182	170	154	146	94
35°	34	34	34	30	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6781.9	6781.9	6781.9	6781.9	6781.9
1°	6751.6	6704.5	6698.8	6728.1	6641.8
2°	6579.0	6545.5	6526.2	6543.4	6445.6
3°	6342.0	6309.6	6274.6	6275.1	6165.8
4°	6019.3	5993.7	5934.6	5916.8	5853.5
5°	5621.8	5570.0	5518.8	5470.6	5407.3
6°	5182.4	5115.5	5042.3	4970.6	4905.7
7°	4665.7	4621.2	4524.4	4426.6	4371.7
8°	4179.7	4108.1	3995.1	3872.7	3826.1
9°	3657.2	3605.9	3476.2	3334.0	3287.4
10°	3183.3	3130.0	2987.2	2828.7	2787.9
11°	2738.7	2688.5	2540.0	2373.6	2330.2
12°	2362.6	2291.5	2121.0	1976.6	1934.3
13°	1988.1	1939.5	1777.9	1635.1	1553.0
14°	1669.6	1629.3	1482.9	1357.3	1270.5
15°	1388.7	1355.8	1233.4	1111.0	1033.6
16°	1139.2	1118.8	1022.0	903.8	840.5
17°	924.2	905.4	843.7	734.9	681.5
18°	746.4	743.8	692.5	598.4	550.8
19°	614.1	613.0	565.9	487.0	447.7
20°	490.1	496.9	460.8	391.8	365.1
21°	399.6	403.3	374.5	322.2	298.1
22°	325.3	328.0	309.1	266.2	253.2
23°	266.8	268.3	252.6	220.7	209.2
24°	219.7	220.7	206.6	184.1	174.2
25°	181.5	182.5	169.5	153.8	145.9
26°	150.6	151.7	140.2	129.2	121.3
27°	125.0	127.1	115.6	108.8	100.4
28°	106.7	107.2	96.8	92.6	84.7
29°	87.4	90.5	81.6	77.9	72.2
30°	74.8	76.4	69.6	67.0	61.7
32.5°	49.7	50.7	47.6	45.5	41.3
35°	33.5	34.0	33.5	30.3	27.7
37.5°	23.0	23.0	23.5	19.9	18.8
40°	15.7	15.7	16.2	13.6	13.1
42.5°	11.5	11.5	11.0	9.4	9.4
45°	8.4	8.4	7.8	7.3	7.3
47.5°	6.8	6.3	5.8	5.8	5.8
50°	5.2	5.2	4.7	4.2	4.7
52.5°	4.2	4.2	3.7	3.7	3.7
55°	3.7	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.0	1.0	1.6



(END OF REPORT)