

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: P282208

Luminaire Tested: **LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282208
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.1 lumens
Efficiency: N/A
Efficacy: 98.2 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

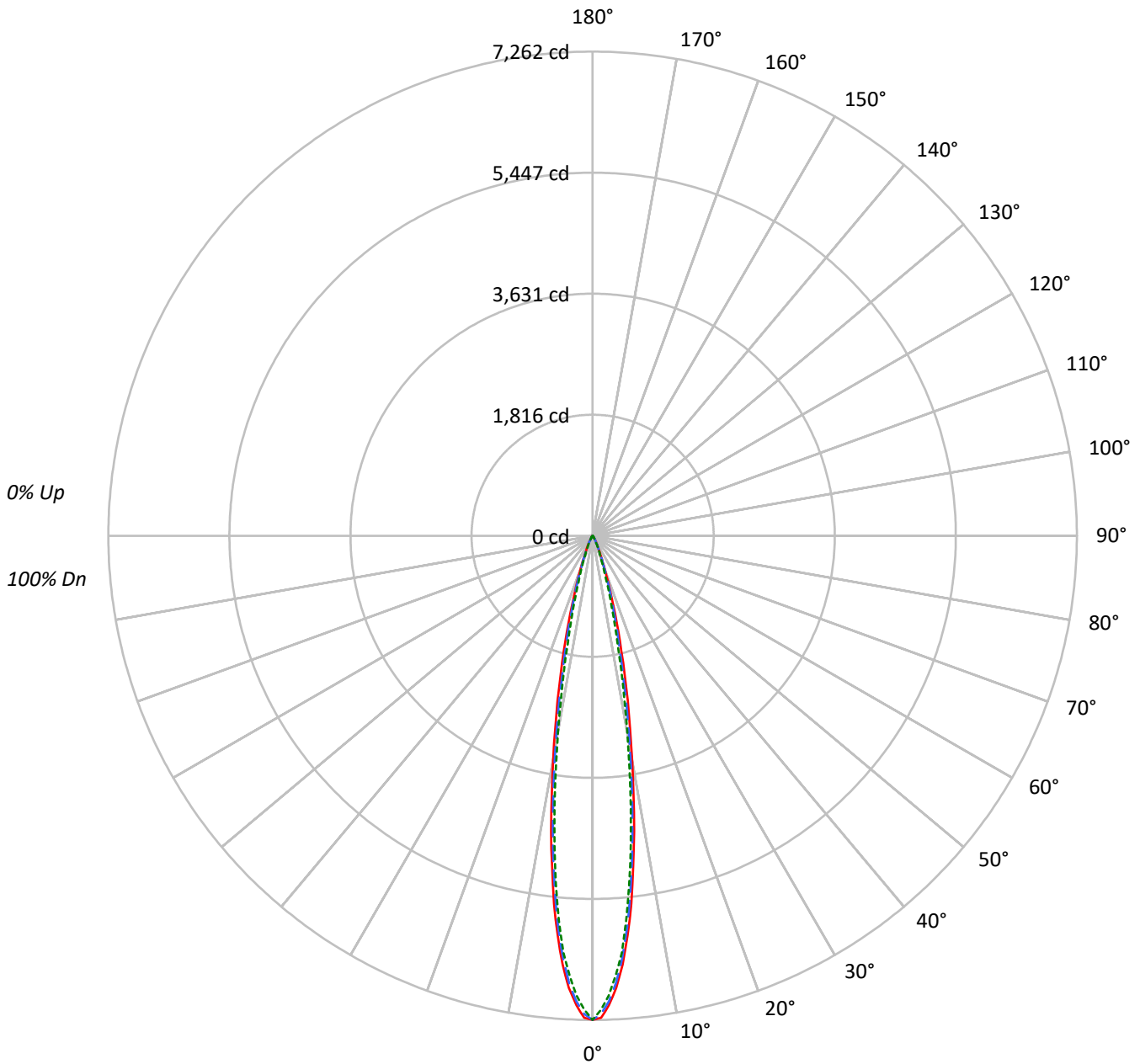
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	3582744	3582744	3582744
5°	2981234	2926559	2867476
10°	1707616	1602411	1495504
15°	759509	674568	565264
20°	275533	259047	205232
25°	105770	98802	85084
30°	45632	42442	37656
35°	21562	21562	17888
40°	10820	11206	9017
45°	6279	5861	5442
50°	4298	3838	3838
55°	3355	2408	2925
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	48.1
10°-20°	382.2	38.9
20°-30°	92.2	9.4
30°-40°	23.5	2.4
40°-50°	7.0	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	0.1
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°	946.7	96.4
0°-40°	970.2	98.8
0°-60°	980.2	99.8
0°-90°	982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7262	7262	7262	7262	7262	
5°	6020	5964	5909	5858	5790	487
15°	1487	1452	1321	1190	1107	424
25°	194	196	182	165	156	100
35°	36	36	36	32	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7261.9	7261.9	7261.9	7261.9	7261.9
1°	7229.4	7179.0	7172.9	7204.2	7111.8
2°	7044.6	7008.8	6988.0	7006.5	6901.8
3°	6790.9	6756.2	6718.7	6719.2	6602.2
4°	6445.3	6417.9	6354.6	6335.6	6267.8
5°	6019.7	5964.2	5909.3	5857.8	5790.0
6°	5549.2	5477.5	5399.1	5322.4	5252.9
7°	4995.9	4948.3	4844.6	4739.9	4681.1
8°	4475.6	4398.8	4277.8	4146.8	4096.9
9°	3916.0	3861.2	3722.3	3569.9	3520.1
10°	3408.6	3351.5	3198.6	3028.9	2985.2
11°	2932.5	2878.8	2719.7	2541.6	2495.1
12°	2529.9	2453.7	2271.1	2116.5	2071.2
13°	2128.8	2076.8	1903.7	1750.8	1662.9
14°	1787.8	1744.6	1587.8	1453.4	1360.4
15°	1487.0	1451.7	1320.7	1189.6	1106.7
16°	1219.8	1198.0	1094.4	967.8	900.0
17°	989.7	969.5	903.4	786.9	729.8
18°	799.2	796.4	741.5	640.7	589.8
19°	657.5	656.4	606.0	521.4	479.4
20°	524.8	532.1	493.4	419.5	390.9
21°	427.9	431.8	401.0	345.0	319.2
22°	348.4	351.2	331.0	285.1	271.1
23°	285.6	287.3	270.5	236.4	224.0
24°	235.2	236.4	221.2	197.1	186.5
25°	194.3	195.5	181.5	164.7	156.3
26°	161.3	162.4	150.1	138.3	129.9
27°	133.9	136.1	123.8	116.5	107.5
28°	114.3	114.8	103.6	99.1	90.7
29°	93.5	96.9	87.4	83.5	77.3
30°	80.1	81.8	74.5	71.7	66.1
32.5°	53.2	54.3	51.0	48.7	44.2
35°	35.8	36.4	35.8	32.5	29.7
37.5°	24.6	24.6	25.2	21.3	20.2
40°	16.8	16.8	17.4	14.6	14.0
42.5°	12.3	12.3	11.8	10.1	10.1
45°	9.0	9.0	8.4	7.8	7.8
47.5°	7.3	6.7	6.2	6.2	6.2
50°	5.6	5.6	5.0	4.5	5.0
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.4	2.8	2.8	3.4
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)