

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: P282213

Luminaire Tested: **LDA2B108035D010 EU2B10NFL258035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282213
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: LDA2B108035D010 EU2B10NFL258035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 992.5 lumens
Efficiency: N/A
Efficacy: 99.2 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

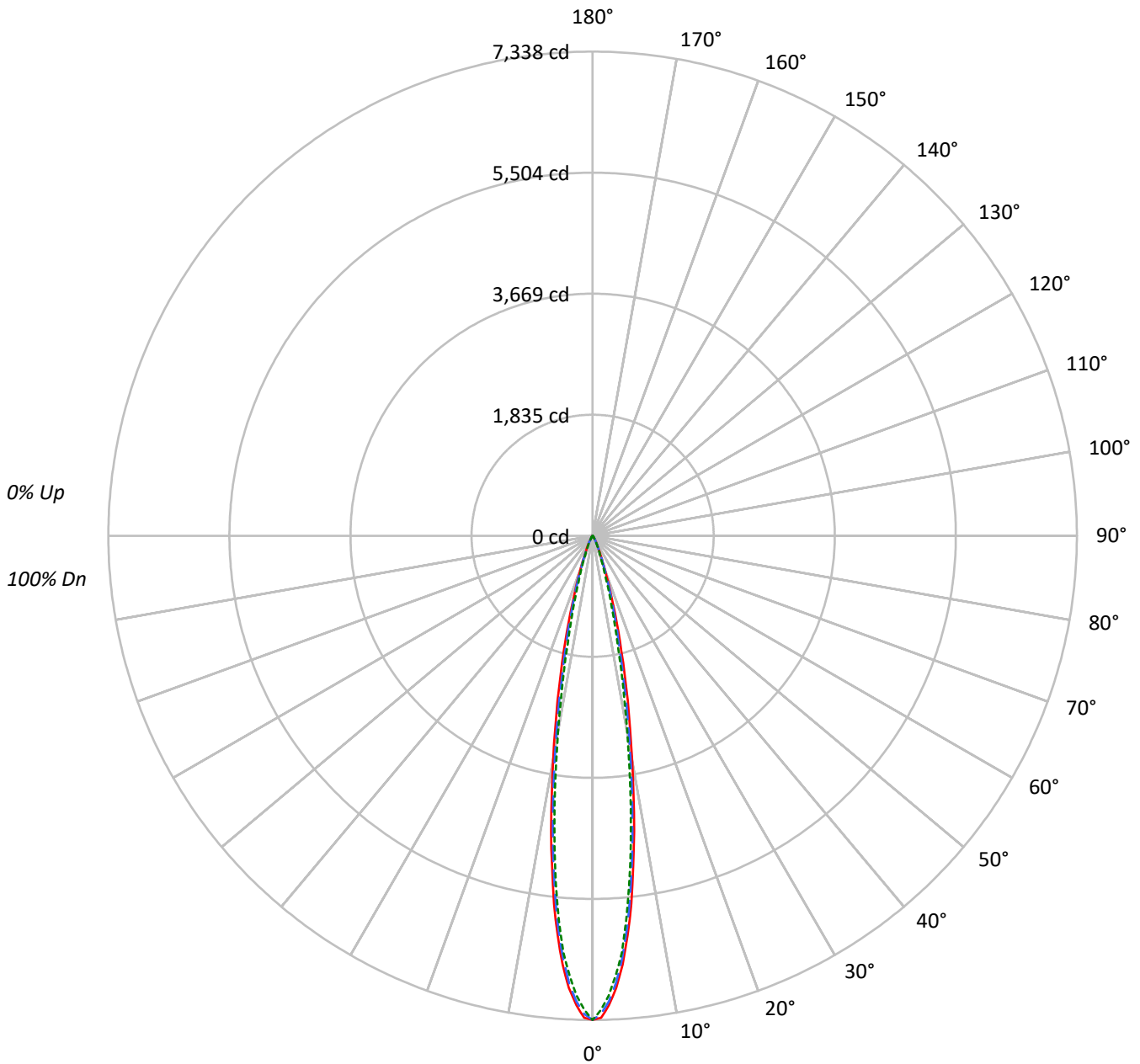
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3620437	3620437	3620437
5°	3012584	2957364	2897686
10°	1725600	1619244	1511234
15°	767477	681617	571189
20°	278421	261777	207385
25°	106913	99836	85955
30°	46088	42897	38055
35°	21803	21803	18069
40°	10949	11271	9081
45°	6349	5931	5512
50°	4375	3914	3914
55°	3441	2408	2925
60°	2763	1677	2269
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°	477.3	48.1
10°-20°	386.2	38.9
20°-30°	93.1	9.4
30°-40°	23.7	2.4
40°-50°	7.1	0.7
50°-60°	3.0	0.3
60°-70°	1.5	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°	956.7	96.4
0°-40°	980.4	98.8
0°-60°	990.5	99.8
0°-90°	992.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7338	7338	7338	7338	7338	
5°	6083	6027	5972	5919	5851	492
15°	1503	1467	1334	1202	1118	428
25°	196	198	183	166	158	101
35°	36	37	36	33	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°	7338.3	7338.3	7338.3	7338.3	7338.3
1°	7305.5	7254.6	7248.3	7280.0	7186.6
2°	7118.7	7082.5	7061.6	7080.2	6974.4
3°	6862.3	6827.3	6789.3	6789.9	6671.6
4°	6513.1	6485.4	6421.5	6402.2	6333.7
5°	6083.0	6027.0	5971.5	5919.4	5851.0
6°	5607.6	5535.2	5455.9	5378.4	5308.2
7°	5048.4	5000.3	4895.6	4789.8	4730.3
8°	4522.6	4445.1	4322.9	4190.4	4140.0
9°	3957.2	3901.8	3761.4	3607.5	3557.1
10°	3444.5	3386.7	3232.2	3060.7	3016.6
11°	2963.4	2909.1	2748.3	2568.4	2521.4
12°	2556.5	2479.5	2295.0	2138.8	2092.9
13°	2151.2	2098.6	1923.7	1769.2	1680.4
14°	1806.6	1763.0	1604.5	1468.7	1374.7
15°	1502.6	1467.0	1334.5	1202.1	1118.3
16°	1232.7	1210.6	1105.9	978.0	909.5
17°	1000.1	979.7	912.9	795.2	737.5
18°	807.6	804.8	749.3	647.5	596.0
19°	664.4	663.3	612.4	526.9	484.5
20°	530.3	537.7	498.6	423.9	395.0
21°	432.4	436.4	405.2	348.6	322.6
22°	352.0	354.9	334.5	288.1	273.9
23°	288.6	290.3	273.4	238.8	226.4
24°	237.7	238.8	223.6	199.2	188.5
25°	196.4	197.5	183.4	166.4	157.9
26°	163.0	164.1	151.7	139.8	131.3
27°	135.3	137.5	125.1	117.7	108.7
28°	115.5	116.0	104.7	100.2	91.7
29°	94.5	97.9	88.3	84.3	78.1
30°	80.9	82.6	75.3	72.4	66.8
32.5°	53.8	54.9	51.5	49.2	44.7
35°	36.2	36.8	36.2	32.8	30.0
37.5°	24.9	24.9	25.5	21.5	20.4
40°	17.0	17.0	17.5	14.7	14.1
42.5°	12.5	12.5	11.9	10.2	10.2
45°	9.1	9.1	8.5	7.9	7.9
47.5°	7.4	6.8	6.2	6.2	6.2
50°	5.7	5.7	5.1	4.5	5.1
52.5°	4.5	4.5	4.0	4.0	4.0
55°	4.0	3.4	2.8	2.8	3.4
57.5°	2.8	2.8	2.3	2.3	2.8
60°	2.8	2.3	1.7	2.3	2.3



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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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)