

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: P282261

Luminaire Tested: **LDA2B109050D010 EU2B10NFL259050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282261
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: LDA2B109050D010 EU2B10NFL259050 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: 862.4 lumens
Efficiency: N/A
Efficacy: 86.2 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

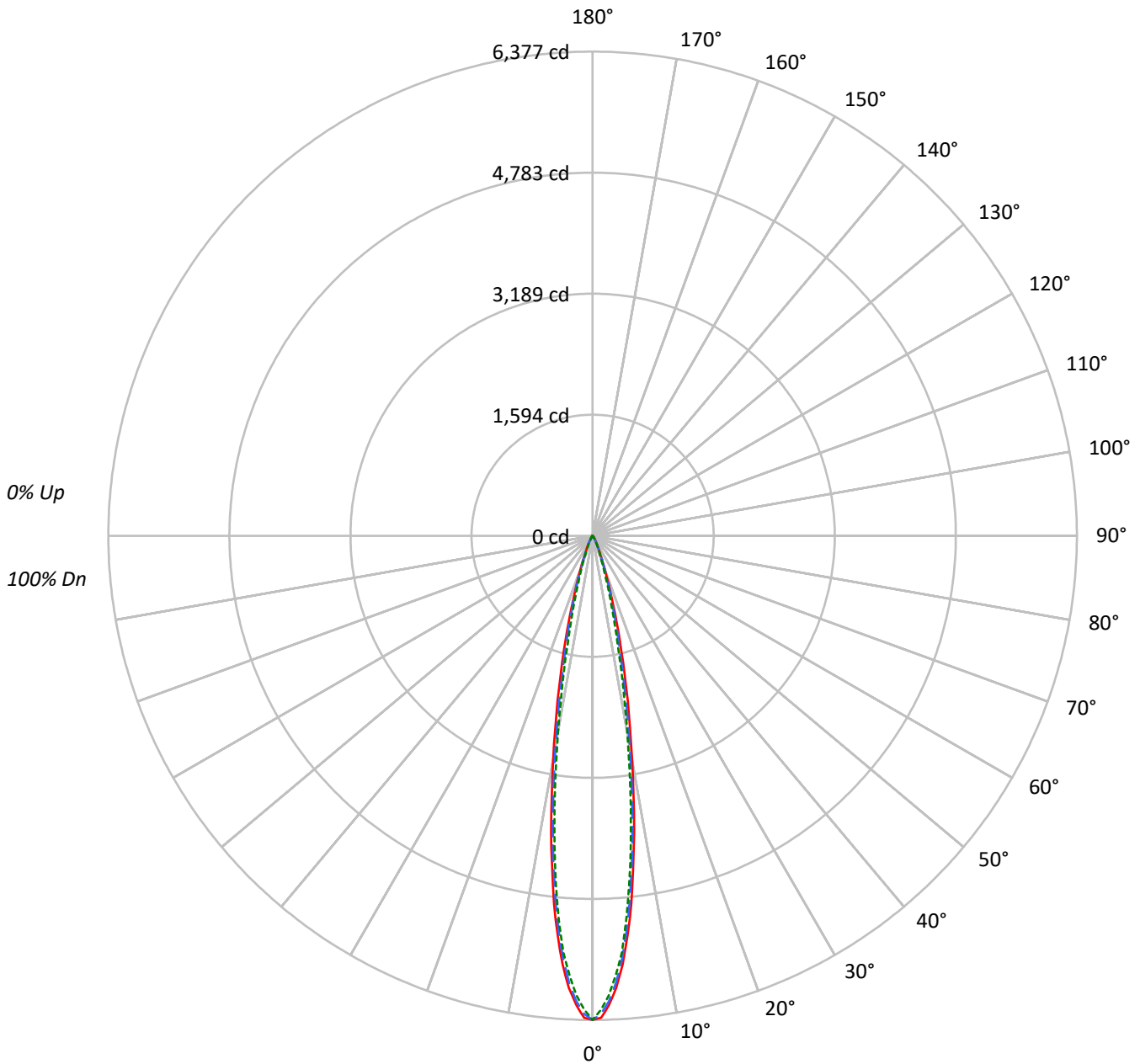
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282261

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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	84	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°	3145971	3145971	3145971
5°	2617773	2569833	2517931
10°	1499461	1407082	1313200
15°	666907	592335	496362
20°	241931	227493	180241
25°	92923	86717	74687
30°	40049	37257	33042
35°	18972	18972	15720
40°	9532	9789	7922
45°	5512	5163	4814
50°	3761	3377	3377
55°	2925	2150	2580
60°	2467	1480	1973
65°	1751	1167	1751
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°	414.7	48.1
10°-20°	335.6	38.9
20°-30°	80.9	9.4
30°-40°	20.6	2.4
40°-50°	6.2	0.7
50°-60°	2.6	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°	831.3	96.4
0°-40°	851.9	98.8
0°-60°	860.7	99.8
0°-90°	862.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6377	6377	6377	6377	6377	
5°	5286	5237	5189	5144	5084	427
15°	1306	1275	1160	1045	972	372
25°	171	172	159	145	137	88
35°	32	32	32	28	26	22
45°	8	8	7	7	7	7
55°	3	3	2	2	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°	6376.6	6376.6	6376.6	6376.6	6376.6
1°	6348.1	6303.9	6298.4	6326.0	6244.8
2°	6185.8	6154.3	6136.2	6152.4	6060.4
3°	5963.0	5932.5	5899.6	5900.1	5797.3
4°	5659.6	5635.5	5579.9	5563.2	5503.7
5°	5285.8	5237.1	5189.0	5143.7	5084.2
6°	4872.7	4809.8	4740.9	4673.5	4612.6
7°	4386.8	4345.0	4254.0	4162.1	4110.4
8°	3930.0	3862.6	3756.3	3641.3	3597.5
9°	3438.6	3390.4	3268.5	3134.7	3090.9
10°	2993.1	2942.9	2808.7	2659.6	2621.3
11°	2575.0	2527.8	2388.2	2231.8	2191.0
12°	2221.4	2154.6	1994.2	1858.5	1818.7
13°	1869.3	1823.6	1671.6	1537.4	1460.1
14°	1569.8	1531.9	1394.2	1276.2	1194.6
15°	1305.7	1274.7	1159.7	1044.6	971.8
16°	1071.1	1052.0	961.0	849.8	790.3
17°	869.0	851.3	793.3	691.0	640.8
18°	701.8	699.3	651.1	562.6	517.9
19°	577.4	576.4	532.1	457.9	421.0
20°	460.8	467.2	433.3	368.4	343.3
21°	375.7	379.2	352.1	302.9	280.3
22°	305.9	308.4	290.7	250.3	238.0
23°	250.8	252.3	237.5	207.5	196.7
24°	206.6	207.5	194.3	173.1	163.8
25°	170.7	171.6	159.3	144.6	137.2
26°	141.6	142.6	131.8	121.5	114.1
27°	117.5	119.5	108.7	102.3	94.4
28°	100.3	100.8	91.0	87.0	79.7
29°	82.1	85.1	76.7	73.3	67.9
30°	70.3	71.8	65.4	63.0	58.0
32.5°	46.7	47.7	44.8	42.8	38.9
35°	31.5	32.0	31.5	28.5	26.1
37.5°	21.6	21.6	22.1	18.7	17.7
40°	14.8	14.8	15.2	12.8	12.3
42.5°	10.8	10.8	10.3	8.9	8.9
45°	7.9	7.9	7.4	6.9	6.9
47.5°	6.4	5.9	5.4	5.4	5.4
50°	4.9	4.9	4.4	3.9	4.4
52.5°	3.9	3.9	3.4	3.4	3.4
55°	3.4	3.0	2.5	2.5	3.0
57.5°	2.5	2.5	2.0	2.0	2.5
60°	2.5	2.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	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°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)