

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: P282184

Luminaire Tested: **LDA2B059727D010 EU2B05NFL259727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282184
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: LDA2B059727D010 EU2B05NFL259727 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 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: 502.9 lumens
Efficiency: N/A
Efficacy: 71.8 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

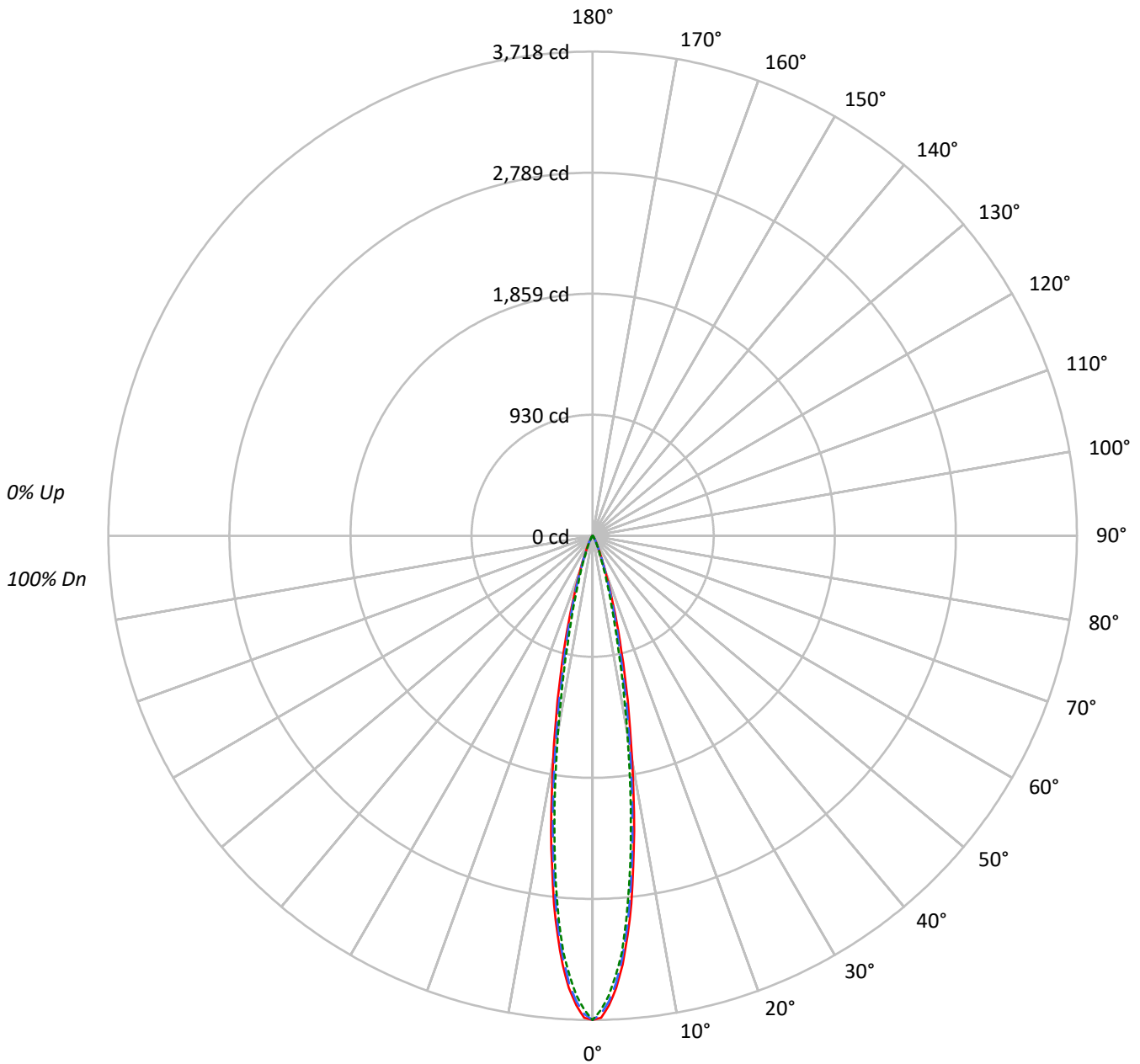
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1834566	1834566	1834566
5°	1526547	1498566	1468306
10°	874398	820493	765787
15°	388897	345380	289451
20°	141074	132674	105110
25°	54164	50571	43549
30°	23357	21705	19255
35°	11082	11082	9155
40°	5539	5732	4637
45°	3210	3000	2791
50°	2226	1996	1996
55°	1720	1204	1462
60°	1381	888	1085
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	48.1
10°-20°	195.7	38.9
20°-30°	47.2	9.4
30°-40°	12.0	2.4
40°-50°	3.6	0.7
50°-60°	1.5	0.3
60°-70°	0.8	0.2
70°-80°	0.3	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°	484.8	96.4
0°-40°	496.8	98.8
0°-60°	501.9	99.8
0°-90°	502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3718	3718	3718	3718	3718	
5°	3082	3054	3026	3000	2965	249
15°	761	743	676	609	567	217
25°	100	100	93	84	80	51
35°	18	19	18	17	15	13
45°	5	5	4	4	4	4
55°	2	2	1	1	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3718.5	3718.5	3718.5	3718.5	3718.5
1°	3701.8	3676.0	3672.9	3688.9	3641.6
2°	3607.2	3588.8	3578.2	3587.7	3534.0
3°	3477.3	3459.5	3440.3	3440.6	3380.6
4°	3300.3	3286.3	3253.9	3244.1	3209.4
5°	3082.4	3054.0	3025.9	2999.5	2964.8
6°	2841.5	2804.8	2764.6	2725.3	2689.8
7°	2558.1	2533.7	2480.7	2427.1	2396.9
8°	2291.7	2252.4	2190.5	2123.4	2097.8
9°	2005.2	1977.1	1906.0	1828.0	1802.4
10°	1745.4	1716.1	1637.8	1550.9	1528.6
11°	1501.6	1474.1	1392.6	1301.4	1277.6
12°	1295.4	1256.4	1162.9	1083.8	1060.5
13°	1090.1	1063.4	974.8	896.5	851.5
14°	915.4	893.3	813.0	744.2	696.6
15°	761.4	743.3	676.2	609.1	566.7
16°	624.6	613.4	560.4	495.6	460.9
17°	506.7	496.4	462.6	402.9	373.7
18°	409.2	407.8	379.7	328.1	302.0
19°	336.7	336.1	310.3	267.0	245.5
20°	268.7	272.4	252.7	214.8	200.2
21°	219.1	221.1	205.3	176.7	163.5
22°	178.4	179.8	169.5	146.0	138.8
23°	146.3	147.1	138.5	121.0	114.7
24°	120.4	121.0	113.3	100.9	95.5
25°	99.5	100.1	92.9	84.3	80.0
26°	82.6	83.2	76.9	70.8	66.5
27°	68.5	69.7	63.4	59.7	55.1
28°	58.5	58.8	53.1	50.8	46.5
29°	47.9	49.6	44.7	42.7	39.6
30°	41.0	41.9	38.1	36.7	33.8
32.5°	27.2	27.8	26.1	25.0	22.7
35°	18.4	18.6	18.4	16.6	15.2
37.5°	12.6	12.6	12.9	10.9	10.3
40°	8.6	8.6	8.9	7.5	7.2
42.5°	6.3	6.3	6.0	5.2	5.2
45°	4.6	4.6	4.3	4.0	4.0
47.5°	3.7	3.4	3.2	3.2	3.2
50°	2.9	2.9	2.6	2.3	2.6
52.5°	2.3	2.3	2.0	2.0	2.0
55°	2.0	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.9	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.1	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)