

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: P282640

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282640
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: LDA2B059027D010 EU2B05NFL259027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 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: 522.0 lumens
Efficiency: N/A
Efficacy: 74.6 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

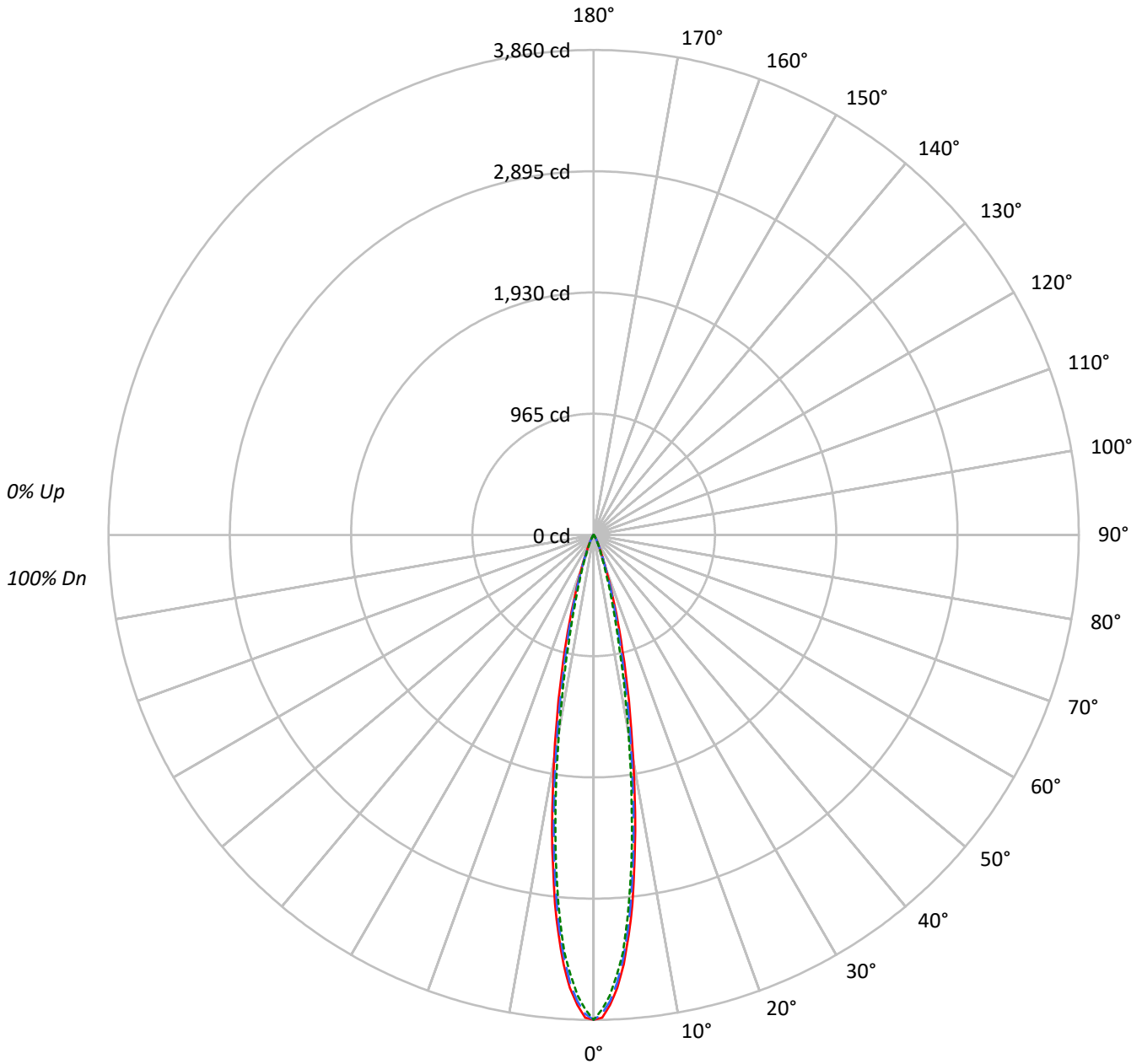
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1904130	1904130	1904130
5°	1584442	1555371	1523972
10°	907562	851603	794793
15°	403658	358506	300432
20°	146429	137661	109100
25°	56233	52477	45182
30°	24269	22560	19996
35°	11504	11504	9516
40°	5732	5925	4766
45°	3349	3140	2930
50°	2303	2072	2072
55°	1806	1290	1548
60°	1480	888	1184
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°	251.0	48.1
10°-20°	203.1	38.9
20°-30°	49.0	9.4
30°-40°	12.5	2.4
40°-50°	3.7	0.7
50°-60°	1.6	0.3
60°-70°	0.8	0.1
70°-80°	0.3	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°	503.1	96.4
0°-40°	515.6	98.8
0°-60°	521.0	99.8
0°-90°	522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3860	3860	3860	3860	3860	
5°	3199	3170	3141	3113	3077	259
15°	790	772	702	632	588	225
25°	103	104	96	88	83	53
35°	19	19	19	17	16	13
45°	5	5	4	4	4	4
55°	2	2	2	2	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°	3859.5	3859.5	3859.5	3859.5	3859.5
1°	3842.2	3815.4	3812.2	3828.8	3779.7
2°	3744.0	3724.9	3713.9	3723.8	3668.1
3°	3609.2	3590.7	3570.8	3571.1	3508.8
4°	3425.5	3410.9	3377.3	3367.2	3331.1
5°	3199.3	3169.8	3140.6	3113.2	3077.2
6°	2949.2	2911.1	2869.5	2828.7	2791.8
7°	2655.1	2629.8	2574.8	2519.1	2487.9
8°	2378.6	2337.8	2273.5	2203.9	2177.4
9°	2081.3	2052.1	1978.3	1897.3	1870.8
10°	1811.6	1781.2	1699.9	1609.8	1586.5
11°	1558.6	1530.0	1445.4	1350.8	1326.1
12°	1344.5	1304.1	1207.0	1124.9	1100.8
13°	1131.4	1103.7	1011.8	930.5	883.8
14°	950.1	927.2	843.9	772.4	723.0
15°	790.3	771.5	701.9	632.2	588.2
16°	648.3	636.7	581.6	514.4	478.3
17°	526.0	515.3	480.1	418.2	387.9
18°	424.8	423.3	394.1	340.5	313.4
19°	349.5	348.9	322.1	277.1	254.8
20°	278.9	282.8	262.2	222.9	207.8
21°	227.4	229.5	213.1	183.4	169.7
22°	185.1	186.6	175.9	151.5	144.1
23°	151.8	152.7	143.8	125.6	119.1
24°	125.0	125.6	117.6	104.8	99.1
25°	103.3	103.9	96.4	87.5	83.0
26°	85.7	86.3	79.8	73.5	69.1
27°	71.1	72.3	65.8	61.9	57.2
28°	60.7	61.0	55.1	52.7	48.2
29°	49.7	51.5	46.4	44.4	41.1
30°	42.6	43.5	39.6	38.1	35.1
32.5°	28.3	28.9	27.1	25.9	23.5
35°	19.1	19.3	19.1	17.3	15.8
37.5°	13.1	13.1	13.4	11.3	10.7
40°	8.9	8.9	9.2	7.7	7.4
42.5°	6.5	6.5	6.3	5.4	5.4
45°	4.8	4.8	4.5	4.2	4.2
47.5°	3.9	3.6	3.3	3.3	3.3
50°	3.0	3.0	2.7	2.4	2.7
52.5°	2.4	2.4	2.1	2.1	2.1
55°	2.1	1.8	1.5	1.5	1.8
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



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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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)