

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: P282636

Luminaire Tested: **LDA2B059024D010 EU2B05NFL259024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282636
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: LDA2B059024D010 EU2B05NFL259024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 476.5 lumens
Efficiency: N/A
Efficacy: 68.1 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

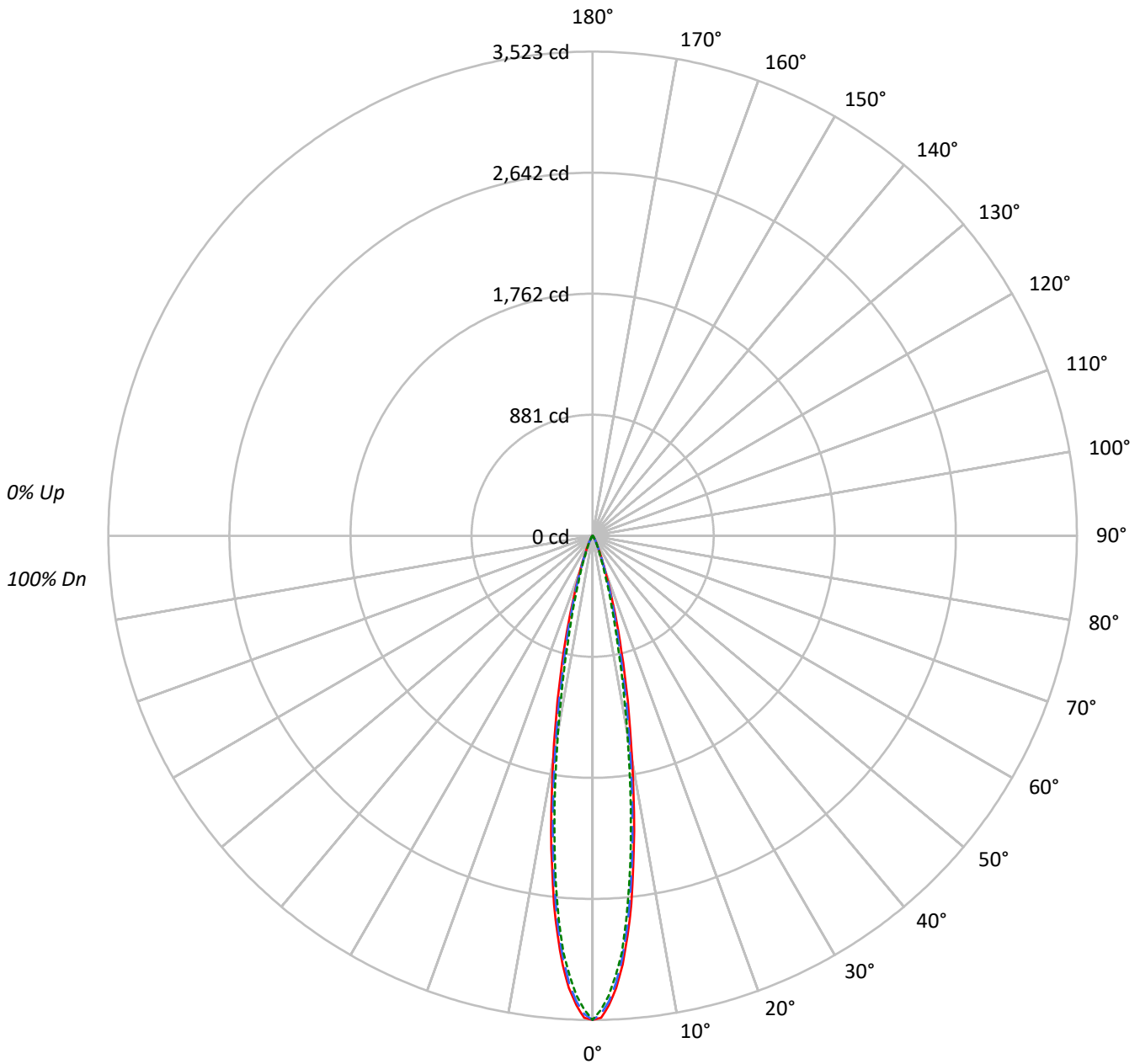
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1738064	1738064	1738064
5°	1446268	1419723	1391097
10°	828408	777359	725509
15°	368466	327248	274230
20°	133671	125691	99545
25°	51334	47904	41263
30°	22161	20566	18287
35°	10480	10480	8673
40°	5281	5410	4379
45°	3000	2861	2651
50°	2072	1842	1842
55°	1634	1204	1376
60°	1381	789	1085
65°	934	584	934
70°	721	433	721
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	48.1
10°-20°	185.4	38.9
20°-30°	44.7	9.4
30°-40°	11.4	2.4
40°-50°	3.4	0.7
50°-60°	1.5	0.3
60°-70°	0.7	0.1
70°-80°	0.2	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°	459.3	96.4
0°-40°	470.7	98.8
0°-60°	475.5	99.8
0°-90°	476.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3523	3523	3523	3523	3523	
5°	2920	2893	2867	2842	2809	236
15°	721	704	641	577	537	206
25°	94	95	88	80	76	49
35°	17	18	17	16	14	12
45°	4	4	4	4	4	4
55°	2	2	1	1	2	2
65°	1	1	0	0	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°	3522.9	3522.9	3522.9	3522.9	3522.9
1°	3507.1	3482.7	3479.7	3494.9	3450.1
2°	3417.5	3400.1	3390.0	3399.0	3348.2
3°	3294.4	3277.6	3259.4	3259.6	3202.8
4°	3126.8	3113.5	3082.7	3073.5	3040.6
5°	2920.3	2893.4	2866.7	2841.7	2808.9
6°	2692.0	2657.3	2619.2	2582.0	2548.3
7°	2423.6	2400.5	2350.2	2299.4	2270.9
8°	2171.2	2134.0	2075.3	2011.7	1987.5
9°	1899.8	1873.1	1805.7	1731.8	1707.7
10°	1653.6	1625.9	1551.7	1469.4	1448.2
11°	1422.6	1396.6	1319.4	1233.0	1210.4
12°	1227.3	1190.3	1101.8	1026.8	1004.8
13°	1032.7	1007.5	923.5	849.3	806.7
14°	867.3	846.4	770.3	705.1	660.0
15°	721.4	704.3	640.7	577.1	536.9
16°	591.8	581.2	530.9	469.5	436.6
17°	480.1	470.3	438.3	381.7	354.0
18°	387.7	386.4	359.7	310.8	286.1
19°	319.0	318.4	294.0	253.0	232.6
20°	254.6	258.1	239.4	203.5	189.6
21°	207.6	209.5	194.5	167.4	154.9
22°	169.0	170.4	160.6	138.3	131.5
23°	138.6	139.4	131.2	114.7	108.7
24°	114.1	114.7	107.3	95.6	90.5
25°	94.3	94.8	88.0	79.9	75.8
26°	78.3	78.8	72.8	67.1	63.0
27°	64.9	66.0	60.0	56.5	52.2
28°	55.4	55.7	50.3	48.1	44.0
29°	45.4	47.0	42.4	40.5	37.5
30°	38.9	39.7	36.1	34.8	32.1
32.5°	25.8	26.4	24.7	23.6	21.5
35°	17.4	17.7	17.4	15.8	14.4
37.5°	12.0	12.0	12.2	10.3	9.8
40°	8.2	8.2	8.4	7.1	6.8
42.5°	6.0	6.0	5.7	4.9	4.9
45°	4.3	4.3	4.1	3.8	3.8
47.5°	3.5	3.3	3.0	3.0	3.0
50°	2.7	2.7	2.4	2.2	2.4
52.5°	2.2	2.2	1.9	1.9	1.9
55°	1.9	1.6	1.4	1.4	1.6
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.8	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.3	0.3	0.5
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	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.5	0.5	0.8



(END OF REPORT)