

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: P282642

Luminaire Tested: **LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282642
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: LDA2B059030D010 EU2B05NFL259030 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: 535.5 lumens
Efficiency: N/A
Efficacy: 76.5 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

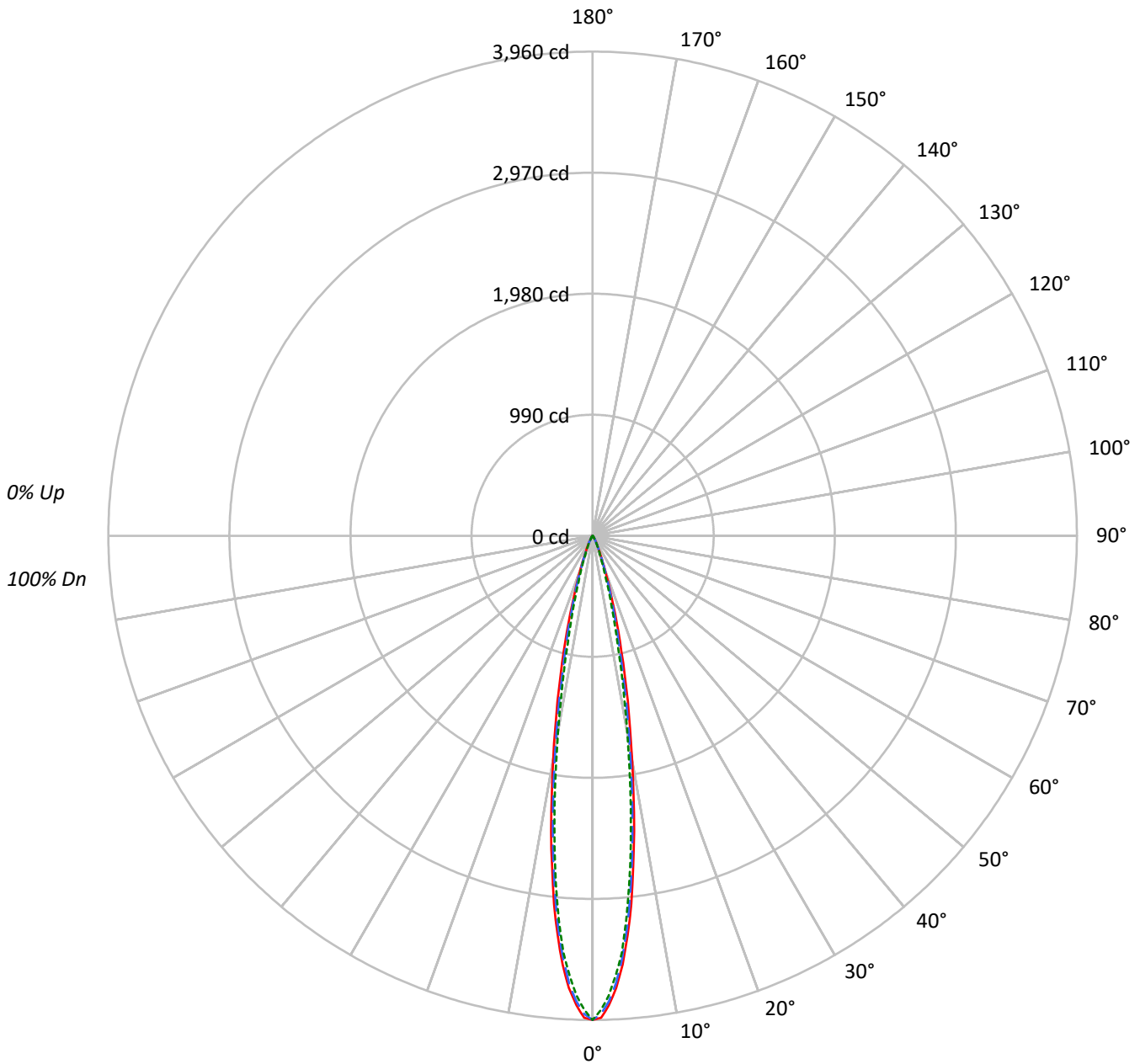
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1953861	1953861	1953861
5°	1625795	1595981	1563790
10°	931258	873847	815584
15°	414180	367853	308247
20°	150262	141284	111935
25°	57703	53892	46380
30°	24895	23129	20509
35°	11745	11745	9757
40°	5925	6118	4895
45°	3419	3210	3000
50°	2379	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°	257.6	48.1
10°-20°	208.4	38.9
20°-30°	50.3	9.4
30°-40°	12.8	2.4
40°-50°	3.8	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°	516.3	96.4
0°-40°	529.1	98.8
0°-60°	534.5	99.8
0°-90°	535.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3960	3960	3960	3960	3960	
5°	3283	3253	3223	3194	3158	265
15°	811	792	720	649	604	231
25°	106	107	99	90	85	55
35°	20	20	20	18	16	13
45°	5	5	5	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°	3960.3	3960.3	3960.3	3960.3	3960.3
1°	3942.5	3915.1	3911.7	3928.8	3878.4
2°	3841.7	3822.2	3810.9	3821.0	3763.9
3°	3703.4	3684.4	3664.0	3664.3	3600.5
4°	3514.9	3500.0	3465.5	3455.1	3418.1
5°	3282.8	3252.6	3222.6	3194.5	3157.6
6°	3026.2	2987.1	2944.4	2902.5	2864.7
7°	2724.5	2698.5	2642.0	2584.9	2552.8
8°	2440.7	2398.9	2332.9	2261.4	2234.2
9°	2135.6	2105.7	2029.9	1946.8	1919.7
10°	1858.9	1827.7	1744.3	1651.8	1628.0
11°	1599.3	1569.9	1483.2	1386.1	1360.7
12°	1379.6	1338.1	1238.5	1154.2	1129.5
13°	1161.0	1132.5	1038.2	954.8	906.8
14°	974.9	951.4	865.9	792.6	741.9
15°	810.9	791.7	720.2	648.7	603.5
16°	665.2	653.3	596.8	527.8	490.8
17°	539.7	528.7	492.7	429.1	398.0
18°	435.9	434.3	404.4	349.4	321.6
19°	358.6	358.0	330.5	284.4	261.5
20°	286.2	290.2	269.1	228.8	213.2
21°	233.4	235.5	218.7	188.1	174.1
22°	190.0	191.5	180.5	155.5	147.8
23°	155.8	156.7	147.5	128.9	122.2
24°	128.3	128.9	120.6	107.5	101.7
25°	106.0	106.6	99.0	89.8	85.2
26°	88.0	88.6	81.9	75.4	70.9
27°	73.0	74.2	67.5	63.5	58.6
28°	62.3	62.6	56.5	54.1	49.5
29°	51.0	52.8	47.6	45.5	42.1
30°	43.7	44.6	40.6	39.1	36.0
32.5°	29.0	29.6	27.8	26.6	24.1
35°	19.5	19.9	19.5	17.7	16.2
37.5°	13.4	13.4	13.7	11.6	11.0
40°	9.2	9.2	9.5	7.9	7.6
42.5°	6.7	6.7	6.4	5.5	5.5
45°	4.9	4.9	4.6	4.3	4.3
47.5°	4.0	3.7	3.4	3.4	3.4
50°	3.1	3.1	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)