

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: P282172

Luminaire Tested: **LDA2B059040D010 EU2B05NFL259040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282172
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: LDA2B059040D010 EU2B05NFL259040 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: 618.3 lumens
Efficiency: N/A
Efficacy: 88.3 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

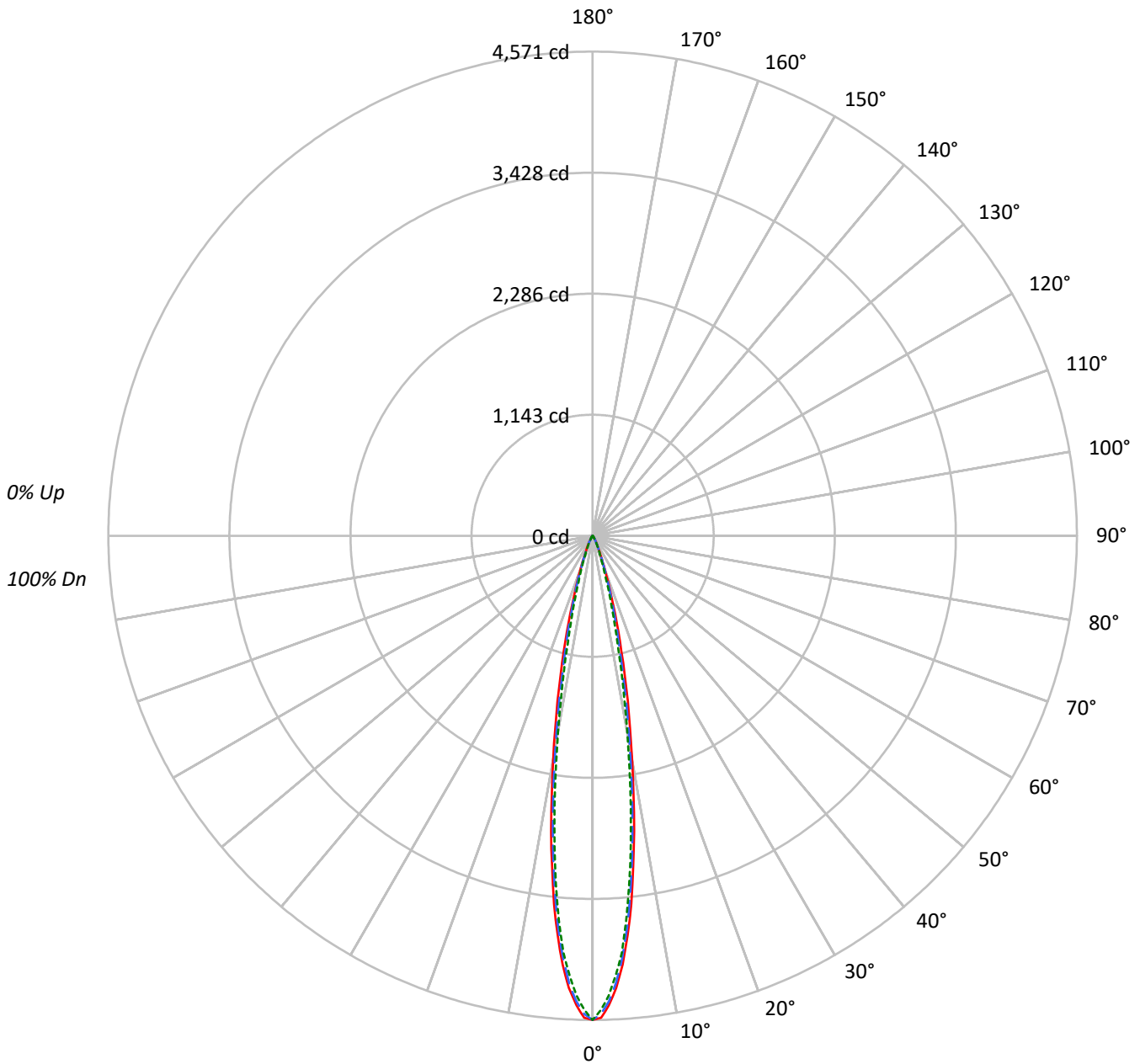
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2255305	2255305	2255305
5°	1876637	1842267	1805074
10°	1074937	1008709	941378
15°	478077	424600	355850
20°	173416	163073	129209
25°	66576	62166	53565
30°	28712	26718	23699
35°	13612	13612	11263
40°	6827	7020	5668
45°	3907	3698	3419
50°	2686	2456	2456
55°	2150	1548	1806
60°	1776	1085	1381
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	48.1
10°-20°	240.6	38.9
20°-30°	58.0	9.4
30°-40°	14.8	2.4
40°-50°	4.4	0.7
50°-60°	1.9	0.3
60°-70°	0.9	0.1
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°	595.9	96.4
0°-40°	610.7	98.8
0°-60°	617.0	99.8
0°-90°	618.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4571	4571	4571	4571	4571	
5°	3789	3754	3720	3687	3645	306
15°	936	914	831	749	697	267
25°	122	123	114	104	98	63
35°	23	23	23	20	19	16
45°	6	6	5	5	5	5
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°	4571.3	4571.3	4571.3	4571.3	4571.3
1°	4550.8	4519.1	4515.2	4535.0	4476.8
2°	4434.5	4411.9	4398.9	4410.5	4344.6
3°	4274.8	4252.9	4229.3	4229.7	4156.0
4°	4057.3	4040.0	4000.1	3988.1	3945.5
5°	3789.3	3754.4	3719.9	3687.4	3644.8
6°	3493.2	3448.0	3398.7	3350.4	3306.7
7°	3144.8	3114.9	3049.6	2983.7	2946.7
8°	2817.3	2769.0	2692.8	2610.3	2579.0
9°	2465.1	2430.5	2343.1	2247.2	2215.8
10°	2145.7	2109.7	2013.5	1906.6	1879.1
11°	1846.0	1812.2	1712.0	1599.9	1570.7
12°	1592.5	1544.6	1429.6	1332.3	1303.8
13°	1340.1	1307.3	1198.3	1102.1	1046.7
14°	1125.4	1098.2	999.5	914.9	856.4
15°	936.0	913.8	831.3	748.8	696.7
16°	767.9	754.1	688.9	609.2	566.6
17°	623.0	610.3	568.7	495.3	459.4
18°	503.1	501.3	466.8	403.3	371.2
19°	413.9	413.2	381.5	328.2	301.8
20°	330.3	334.9	310.6	264.1	246.1
21°	269.4	271.8	252.4	217.2	201.0
22°	219.3	221.1	208.4	179.5	170.6
23°	179.8	180.9	170.3	148.8	141.0
24°	148.1	148.8	139.3	124.1	117.4
25°	122.3	123.0	114.2	103.7	98.4
26°	101.5	102.2	94.5	87.1	81.8
27°	84.3	85.7	77.9	73.3	67.7
28°	71.9	72.3	65.2	62.4	57.1
29°	58.9	61.0	55.0	52.5	48.7
30°	50.4	51.5	46.9	45.1	41.6
32.5°	33.5	34.2	32.1	30.7	27.9
35°	22.6	22.9	22.6	20.4	18.7
37.5°	15.5	15.5	15.9	13.4	12.7
40°	10.6	10.6	10.9	9.2	8.8
42.5°	7.8	7.8	7.4	6.3	6.3
45°	5.6	5.6	5.3	4.9	4.9
47.5°	4.6	4.2	3.9	3.9	3.9
50°	3.5	3.5	3.2	2.8	3.2
52.5°	2.8	2.8	2.5	2.5	2.5
55°	2.5	2.1	1.8	1.8	2.1
57.5°	1.8	1.8	1.4	1.4	1.8
60°	1.8	1.4	1.1	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.4	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)