

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: P282649

Luminaire Tested: **LDA2B059040D010 EU2B05NFL259040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282649
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 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: 577.3 lumens
Efficiency: N/A
Efficacy: 82.5 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

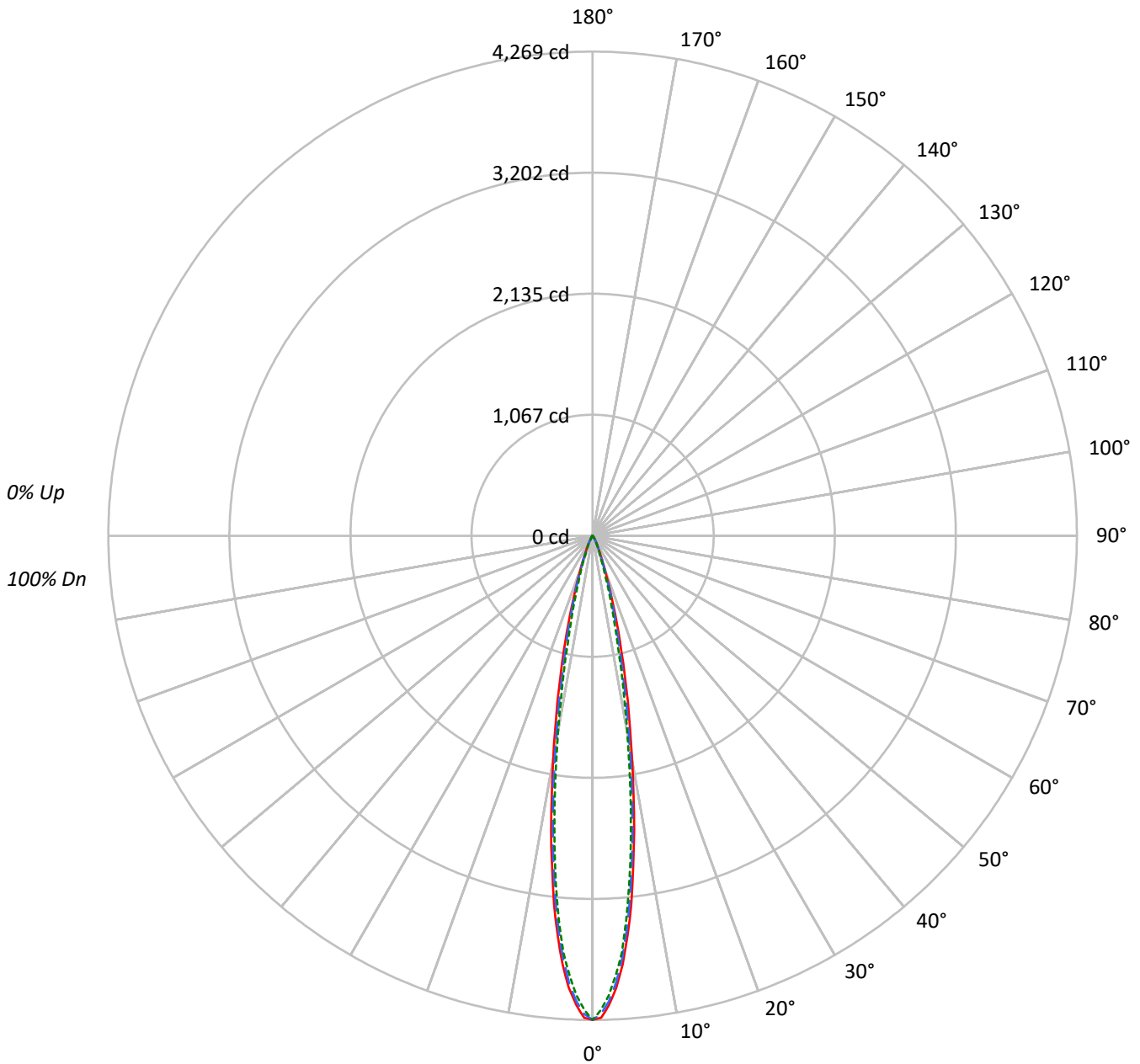
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2106211	2106211	2106211
5°	1752578	1720486	1685769
10°	1003899	942029	879157
15°	446511	396558	332304
20°	161970	152310	120651
25°	62221	58084	50027
30°	26832	24952	22161
35°	12708	12708	10540
40°	6376	6569	5281
45°	3698	3419	3210
50°	2533	2303	2303
55°	1978	1376	1720
60°	1579	987	1283
65°	1167	817	1167
70°	1010	433	1010
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	48.1
10°-20°	224.7	38.9
20°-30°	54.2	9.4
30°-40°	13.8	2.4
40°-50°	4.1	0.7
50°-60°	1.7	0.3
60°-70°	0.9	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°	556.5	96.4
0°-40°	570.4	98.8
0°-60°	576.2	99.8
0°-90°	577.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4269	4269	4269	4269	4269	
5°	3539	3506	3474	3444	3404	286
15°	874	853	776	699	651	249
25°	114	115	107	97	92	59
35°	21	21	21	19	18	15
45°	5	5	5	5	5	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°	4269.1	4269.1	4269.1	4269.1	4269.1
1°	4250.0	4220.4	4216.8	4235.2	4180.9
2°	4141.4	4120.3	4108.1	4119.0	4057.4
3°	3992.2	3971.8	3949.8	3950.1	3881.3
4°	3789.1	3772.9	3735.7	3724.5	3684.7
5°	3538.8	3506.2	3474.0	3443.7	3403.9
6°	3262.3	3220.1	3174.0	3128.9	3088.1
7°	2937.0	2909.0	2848.1	2786.5	2751.9
8°	2631.1	2586.0	2514.9	2437.8	2408.5
9°	2302.2	2269.9	2188.2	2098.7	2069.4
10°	2003.9	1970.3	1880.4	1780.6	1754.9
11°	1724.0	1692.4	1598.9	1494.2	1466.8
12°	1487.3	1442.5	1335.1	1244.3	1217.6
13°	1251.5	1220.9	1119.1	1029.3	977.6
14°	1051.0	1025.6	933.4	854.4	799.8
15°	874.2	853.4	776.4	699.3	650.6
16°	717.1	704.3	643.4	569.0	529.1
17°	581.8	569.9	531.1	462.6	429.0
18°	469.8	468.2	435.9	376.7	346.7
19°	386.5	385.9	356.3	306.5	281.8
20°	308.5	312.8	290.1	246.6	229.8
21°	251.6	253.9	235.7	202.8	187.7
22°	204.8	206.4	194.6	167.6	159.4
23°	167.9	168.9	159.0	138.9	131.7
24°	138.3	138.9	130.1	115.9	109.6
25°	114.3	114.9	106.7	96.8	91.9
26°	94.8	95.5	88.2	81.3	76.4
27°	78.7	80.0	72.8	68.5	63.2
28°	67.2	67.5	60.9	58.3	53.3
29°	55.0	57.0	51.4	49.1	45.4
30°	47.1	48.1	43.8	42.1	38.9
32.5°	31.3	31.9	30.0	28.6	26.0
35°	21.1	21.4	21.1	19.1	17.5
37.5°	14.5	14.5	14.8	12.5	11.9
40°	9.9	9.9	10.2	8.6	8.2
42.5°	7.2	7.2	6.9	5.9	5.9
45°	5.3	5.3	4.9	4.6	4.6
47.5°	4.3	4.0	3.6	3.6	3.6
50°	3.3	3.3	3.0	2.6	3.0
52.5°	2.6	2.6	2.3	2.3	2.3
55°	2.3	2.0	1.6	1.6	2.0
57.5°	1.6	1.6	1.3	1.3	1.6
60°	1.6	1.3	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.3	0.3	0.7
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°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)