

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: P282166

Luminaire Tested: **LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282166
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: LDA2B059035D010 EU2B05NFL259035 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: 605.3 lumens
Efficiency: N/A
Efficacy: 86.5 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

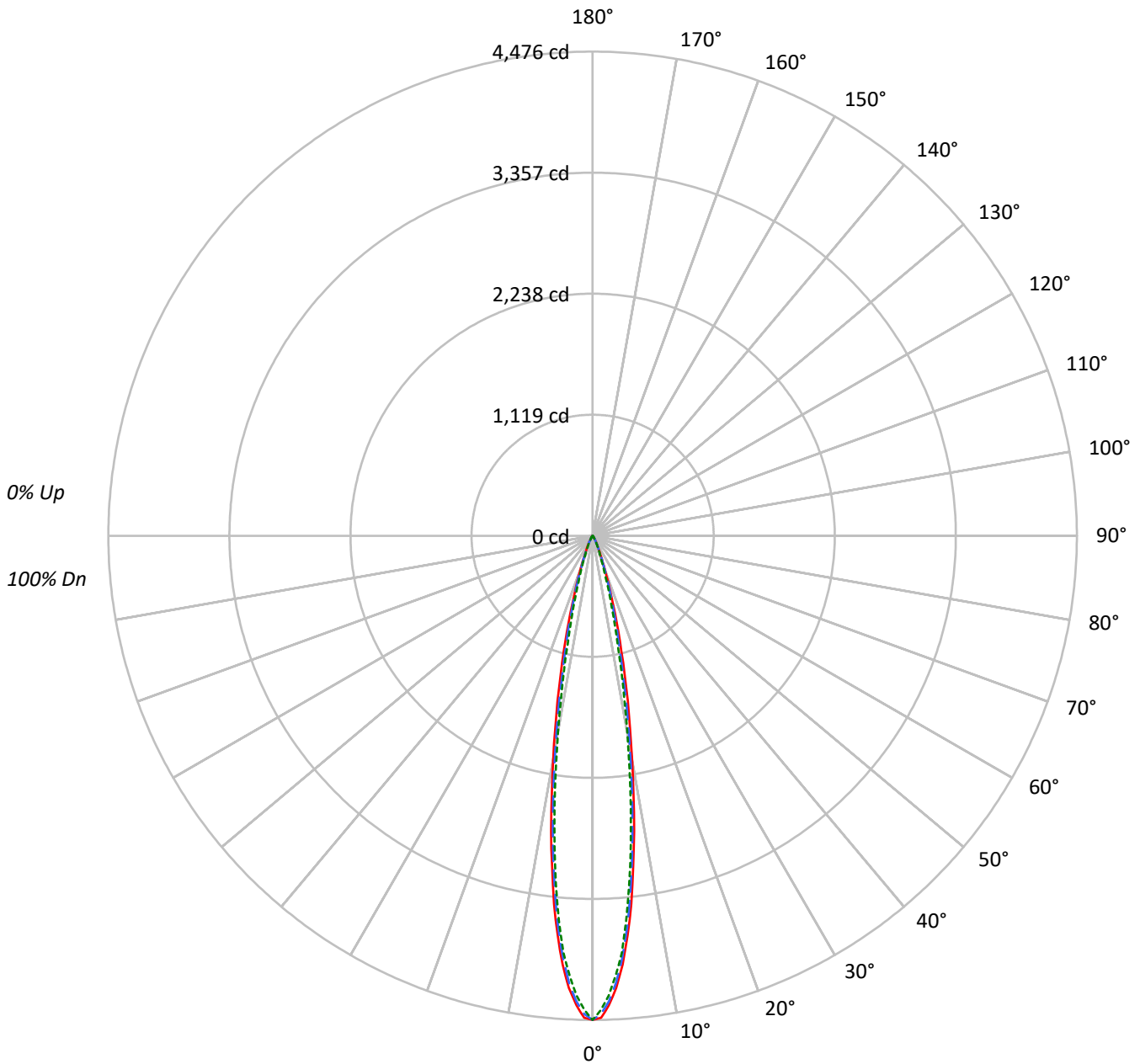
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2208337	2208337	2208337
5°	1837562	1803885	1767485
10°	1052544	987718	921790
15°	468168	415763	348444
20°	169845	159660	126531
25°	65215	60914	52422
30°	28142	26149	23186
35°	13310	13310	11022
40°	6698	6891	5539
45°	3837	3628	3349
50°	2686	2379	2379
55°	2064	1462	1806
60°	1677	987	1381
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°	291.1	48.1
10°-20°	235.6	38.9
20°-30°	56.8	9.4
30°-40°	14.5	2.4
40°-50°	4.3	0.7
50°-60°	1.8	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°	583.5	96.4
0°-40°	598.0	98.8
0°-60°	604.2	99.8
0°-90°	605.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4476	4476	4476	4476	4476	
5°	3710	3676	3642	3611	3569	300
15°	917	895	814	733	682	261
25°	120	120	112	102	96	62
35°	22	22	22	20	18	15
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°	4476.1	4476.1	4476.1	4476.1	4476.1
1°	4456.1	4425.0	4421.2	4440.6	4383.6
2°	4342.2	4320.1	4307.3	4318.7	4254.1
3°	4185.8	4164.4	4141.3	4141.6	4069.5
4°	3972.8	3955.9	3916.9	3905.1	3863.4
5°	3710.4	3676.2	3642.4	3610.7	3568.9
6°	3420.4	3376.2	3327.9	3280.6	3237.8
7°	3079.4	3050.0	2986.2	2921.6	2885.3
8°	2758.7	2711.4	2636.8	2556.0	2525.3
9°	2413.8	2379.9	2294.3	2200.4	2169.7
10°	2101.0	2065.8	1971.6	1866.9	1840.0
11°	1807.6	1774.4	1676.4	1566.6	1538.0
12°	1559.4	1512.4	1399.9	1304.6	1276.6
13°	1312.2	1280.1	1173.4	1079.2	1025.0
14°	1101.9	1075.4	978.7	895.8	838.5
15°	916.6	894.8	814.0	733.2	682.2
16°	751.9	738.4	674.6	596.5	554.8
17°	610.0	597.6	556.8	485.0	449.8
18°	492.6	490.9	457.1	394.9	363.5
19°	405.3	404.6	373.5	321.4	295.5
20°	323.5	328.0	304.1	258.6	241.0
21°	263.7	266.2	247.2	212.7	196.8
22°	214.7	216.5	204.0	175.7	167.1
23°	176.1	177.1	166.7	145.7	138.1
24°	145.0	145.7	136.4	121.5	115.0
25°	119.8	120.5	111.9	101.5	96.3
26°	99.4	100.1	92.5	85.3	80.1
27°	82.5	83.9	76.3	71.8	66.3
28°	70.4	70.8	63.9	61.1	55.9
29°	57.7	59.7	53.9	51.4	47.6
30°	49.4	50.4	45.9	44.2	40.7
32.5°	32.8	33.5	31.4	30.0	27.3
35°	22.1	22.4	22.1	20.0	18.3
37.5°	15.2	15.2	15.5	13.1	12.4
40°	10.4	10.4	10.7	9.0	8.6
42.5°	7.6	7.6	7.2	6.2	6.2
45°	5.5	5.5	5.2	4.8	4.8
47.5°	4.5	4.1	3.8	3.8	3.8
50°	3.5	3.5	3.1	2.8	3.1
52.5°	2.8	2.8	2.4	2.4	2.4
55°	2.4	2.1	1.7	1.7	2.1
57.5°	1.7	1.7	1.4	1.4	1.7
60°	1.7	1.4	1.0	1.4	1.4



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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°	1.4	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)