

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: P282141

Luminaire Tested: **LDA2B058050D010 EU2B05NFL258050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282141
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: LDA2B058050D010 EU2B05NFL258050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 755.4 lumens
Efficiency: N/A
Efficacy: 107.9 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

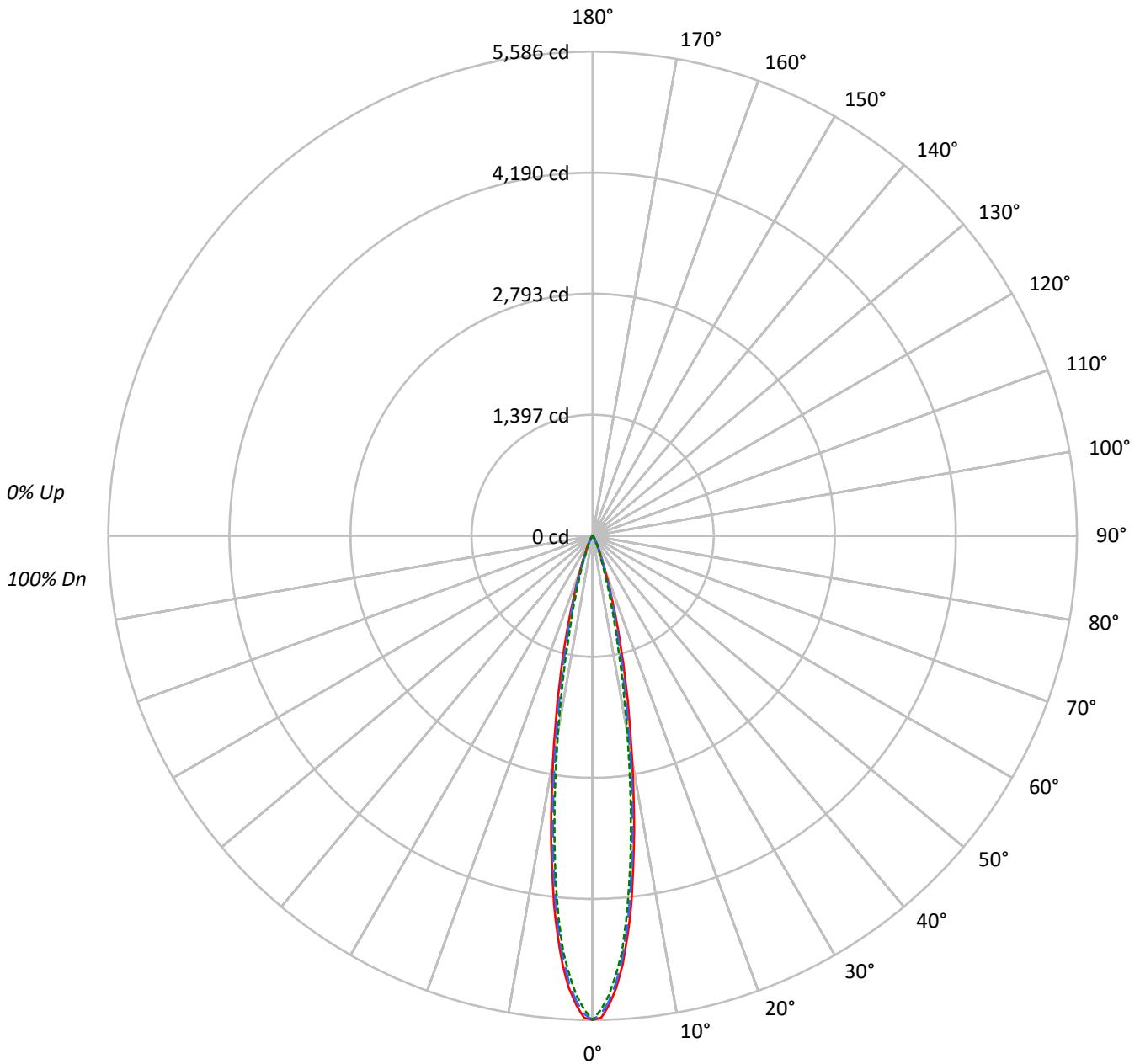
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2755820	2755820	2755820
5°	2293139	2251093	2205679
10°	1313500	1232543	1150333
15°	584214	518836	434815
20°	211952	199247	157875
25°	81382	75993	65433
30°	35093	32643	28940
35°	16623	16623	13732
40°	8308	8630	6956
45°	4814	4535	4186
50°	3300	2993	2993
55°	2580	1892	2236
60°	2171	1283	1677
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.3	48.1
10°-20°	294.0	38.9
20°-30°	70.9	9.4
30°-40°	18.1	2.4
40°-50°	5.4	0.7
50°-60°	2.3	0.3
60°-70°	1.1	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°	728.2	96.4
0°-40°	746.3	98.8
0°-60°	754.0	99.8
0°-90°	755.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5586	5586	5586	5586	5586	
5°	4630	4588	4545	4506	4454	374
15°	1144	1117	1016	915	851	326
25°	150	150	140	127	120	77
35°	28	28	28	25	23	19
45°	7	7	6	6	6	6
55°	3	3	2	2	3	3
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°	5585.8	5585.8	5585.8	5585.8	5585.8
1°	5560.8	5522.1	5517.3	5541.4	5470.4
2°	5418.7	5391.1	5375.1	5389.4	5308.8
3°	5223.5	5196.8	5167.9	5168.4	5078.3
4°	4957.7	4936.6	4887.9	4873.3	4821.1
5°	4630.3	4587.6	4545.4	4505.8	4453.7
6°	4268.4	4213.3	4153.0	4093.9	4040.5
7°	3842.8	3806.2	3726.5	3645.9	3600.7
8°	3442.6	3383.5	3290.5	3189.7	3151.3
9°	3012.2	2970.0	2863.1	2745.9	2707.6
10°	2621.9	2577.9	2460.3	2329.8	2296.2
11°	2255.7	2214.3	2092.0	1955.0	1919.2
12°	1945.9	1887.4	1746.9	1628.0	1593.1
13°	1637.5	1597.4	1464.3	1346.7	1279.1
14°	1375.1	1342.0	1221.3	1117.9	1046.4
15°	1143.8	1116.6	1015.8	915.0	851.3
16°	938.3	921.5	841.8	744.4	692.3
17°	761.2	745.7	694.9	605.3	561.3
18°	614.8	612.6	570.4	492.8	453.6
19°	505.8	504.9	466.1	401.1	368.8
20°	403.7	409.3	379.5	322.7	300.7
21°	329.1	332.2	308.5	265.4	245.6
22°	268.0	270.1	254.6	219.3	208.5
23°	219.7	221.0	208.1	181.8	172.3
24°	180.9	181.8	170.2	151.6	143.5
25°	149.5	150.4	139.6	126.7	120.2
26°	124.1	124.9	115.5	106.4	99.9
27°	103.0	104.7	95.2	89.6	82.7
28°	87.9	88.3	79.7	76.3	69.8
29°	71.9	74.5	67.2	64.2	59.5
30°	61.6	62.9	57.3	55.1	50.8
32.5°	40.9	41.8	39.2	37.5	34.0
35°	27.6	28.0	27.6	25.0	22.8
37.5°	19.0	19.0	19.4	16.4	15.5
40°	12.9	12.9	13.4	11.2	10.8
42.5°	9.5	9.5	9.0	7.8	7.8
45°	6.9	6.9	6.5	6.0	6.0
47.5°	5.6	5.2	4.7	4.7	4.7
50°	4.3	4.3	3.9	3.4	3.9
52.5°	3.4	3.4	3.0	3.0	3.0
55°	3.0	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.7	1.7	2.2
60°	2.2	1.7	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)