

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: P282164

Luminaire Tested: **LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282164
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 611.5 lumens
Efficiency: N/A
Efficacy: 87.4 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

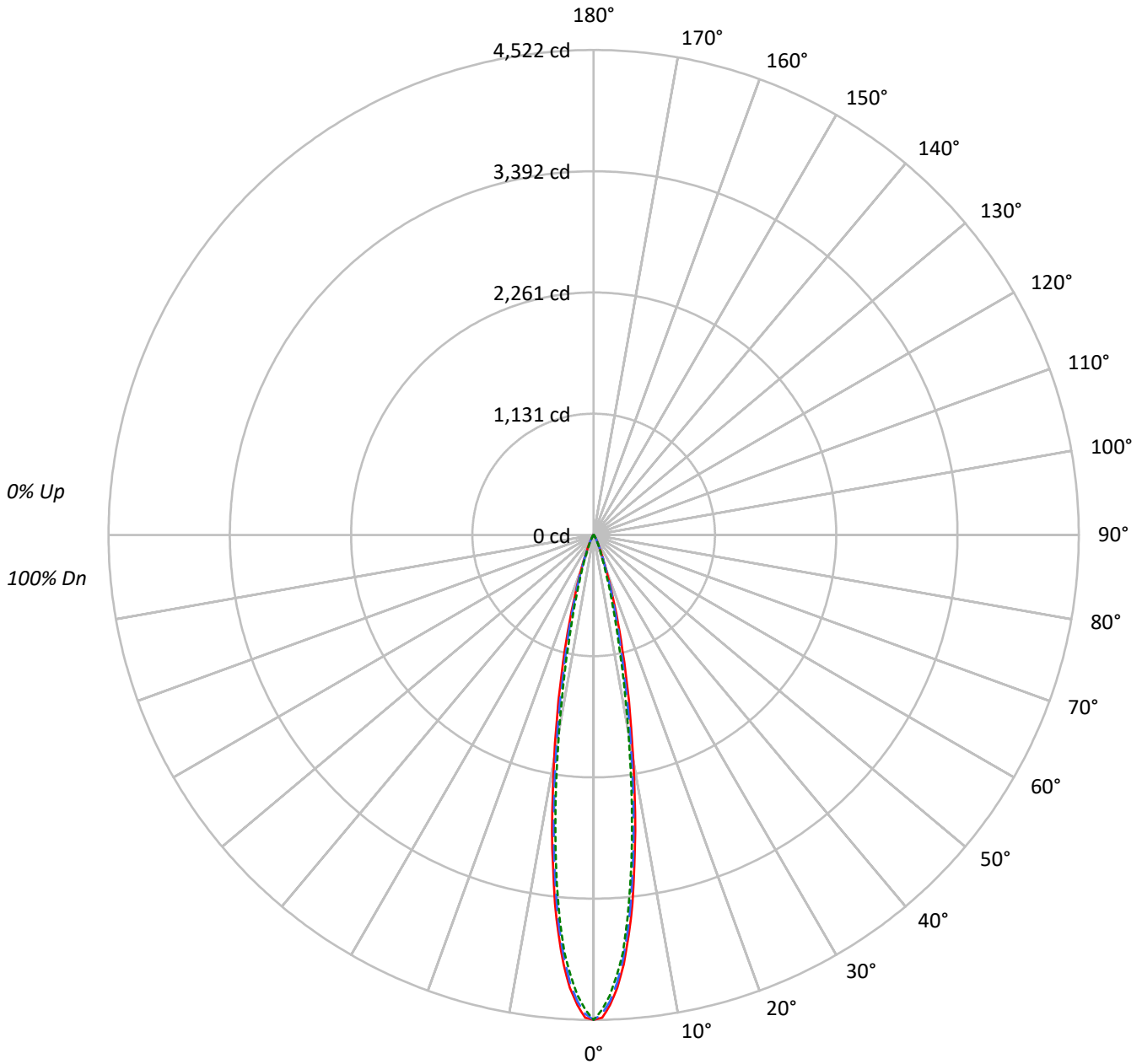
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	89	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2230982	2230982	2230982
5°	1856431	1822408	1785611
10°	1063365	997837	931258
15°	472969	420054	352020
20°	171578	161340	127791
25°	65868	61513	52967
30°	28427	26433	23471
35°	13431	13431	11142
40°	6762	6956	5603
45°	3907	3628	3419
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°	294.1	48.1
10°-20°	238.0	38.9
20°-30°	57.4	9.4
30°-40°	14.6	2.4
40°-50°	4.4	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°	589.5	96.4
0°-40°	604.1	98.8
0°-60°	610.3	99.8
0°-90°	611.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4522	4522	4522	4522	4522	
5°	3748	3714	3680	3648	3606	303
15°	926	904	822	741	689	264
25°	121	122	113	102	97	63
35°	22	23	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°	4522.0	4522.0	4522.0	4522.0	4522.0
1°	4501.8	4470.4	4466.6	4486.1	4428.6
2°	4386.7	4364.4	4351.5	4363.0	4297.8
3°	4228.7	4207.1	4183.7	4184.1	4111.2
4°	4013.5	3996.4	3957.0	3945.2	3903.0
5°	3748.5	3714.0	3679.8	3647.7	3605.5
6°	3455.5	3410.9	3362.1	3314.3	3271.0
7°	3110.9	3081.3	3016.8	2951.6	2914.9
8°	2786.9	2739.2	2663.8	2582.2	2551.2
9°	2438.5	2404.4	2317.9	2223.0	2192.0
10°	2122.6	2087.0	1991.8	1886.1	1858.9
11°	1826.1	1792.6	1693.6	1582.7	1553.7
12°	1575.4	1527.9	1414.2	1318.0	1289.7
13°	1325.6	1293.2	1185.4	1090.2	1035.5
14°	1113.2	1086.4	988.7	905.0	847.1
15°	926.0	904.0	822.4	740.8	689.2
16°	759.6	746.0	681.5	602.7	560.5
17°	616.3	603.7	562.6	490.0	454.4
18°	497.7	495.9	461.8	399.0	367.2
19°	409.4	408.7	377.4	324.7	298.5
20°	326.8	331.3	307.3	261.2	243.4
21°	266.5	268.9	249.7	214.8	198.8
22°	216.9	218.7	206.1	177.5	168.8
23°	177.9	178.9	168.5	147.2	139.5
24°	146.5	147.2	137.8	122.8	116.1
25°	121.0	121.7	113.0	102.5	97.3
26°	100.4	101.1	93.5	86.1	80.9
27°	83.4	84.7	77.1	72.5	67.0
28°	71.1	71.5	64.5	61.7	56.5
29°	58.2	60.3	54.4	52.0	48.1
30°	49.9	50.9	46.4	44.6	41.2
32.5°	33.1	33.8	31.7	30.3	27.6
35°	22.3	22.7	22.3	20.2	18.5
37.5°	15.3	15.3	15.7	13.3	12.6
40°	10.5	10.5	10.8	9.1	8.7
42.5°	7.7	7.7	7.3	6.3	6.3
45°	5.6	5.6	5.2	4.9	4.9
47.5°	4.5	4.2	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)