

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: P282635

Luminaire Tested: **LDA2B059024D010 EU2B05NFL259024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282635
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: LDA2B059024D010 EU2B05NFL259024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 483.3 lumens
Efficiency: N/A
Efficacy: 69.0 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

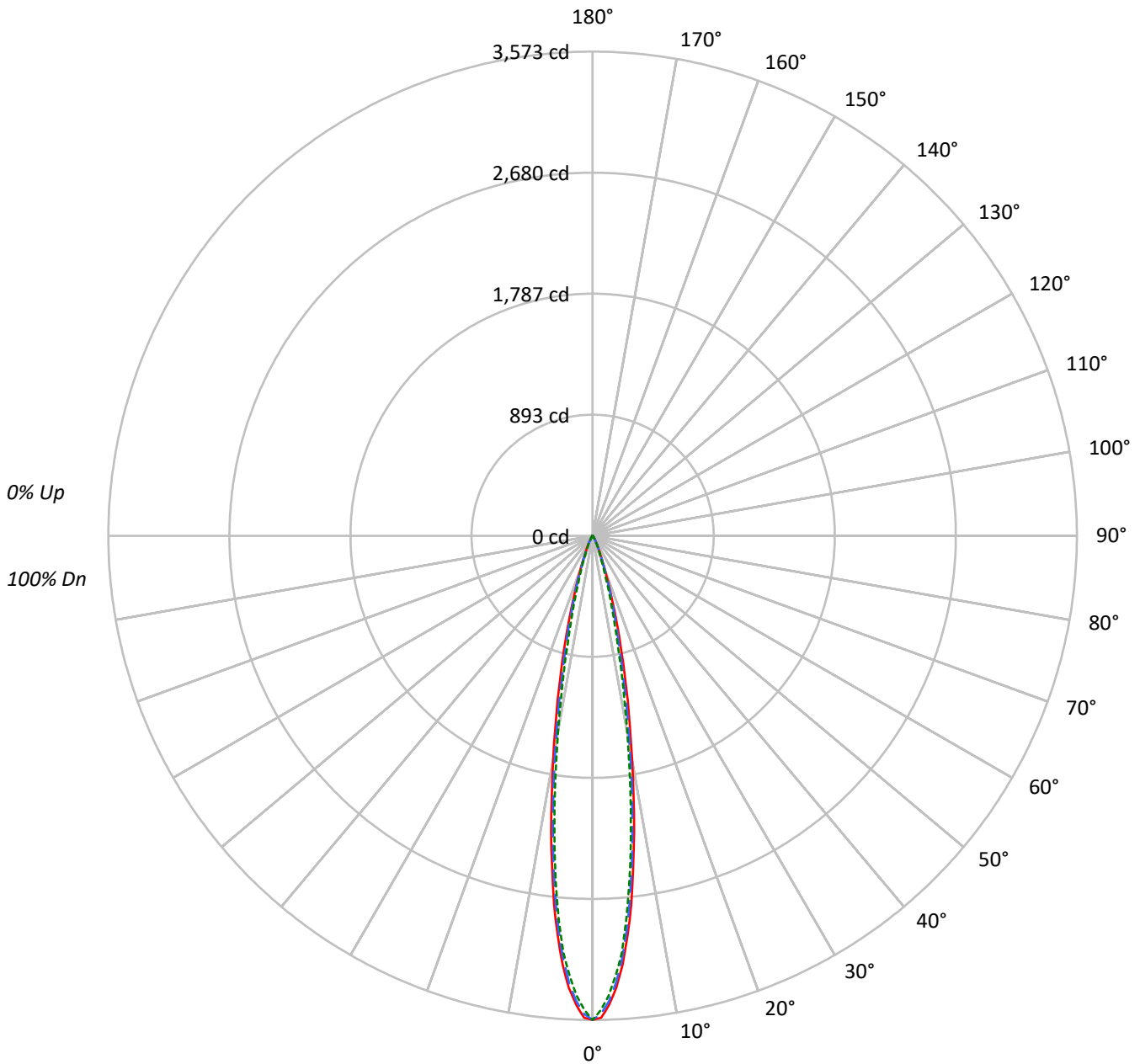
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1762880	1762880	1762880
5°	1466870	1439978	1410907
10°	840231	788431	735829
15°	373727	331896	278112
20°	135561	127476	101015
25°	52041	48612	41862
30°	22446	20907	18515
35°	10600	10600	8793
40°	5346	5474	4444
45°	3070	2861	2721
50°	2149	1919	1919
55°	1634	1204	1462
60°	1381	789	1085
65°	934	700	934
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	48.1
10°-20°	188.1	38.9
20°-30°	45.4	9.4
30°-40°	11.6	2.4
40°-50°	3.5	0.7
50°-60°	1.5	0.3
60°-70°	0.7	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°	465.8	96.4
0°-40°	477.4	98.8
0°-60°	482.3	99.8
0°-90°	483.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3573	3573	3573	3573	3573	
5°	2962	2935	2908	2882	2849	240
15°	732	714	650	585	544	209
25°	96	96	89	81	77	49
35°	18	18	18	16	15	12
45°	4	4	4	4	4	4
55°	2	2	1	1	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°	3573.2	3573.2	3573.2	3573.2	3573.2
1°	3557.2	3532.4	3529.4	3544.8	3499.3
2°	3466.2	3448.6	3438.4	3447.5	3396.0
3°	3341.4	3324.3	3305.9	3306.1	3248.5
4°	3171.4	3157.9	3126.7	3117.4	3084.0
5°	2961.9	2934.7	2907.6	2882.3	2848.9
6°	2730.4	2695.2	2656.6	2618.8	2584.7
7°	2458.2	2434.8	2383.8	2332.2	2303.3
8°	2202.2	2164.4	2104.9	2040.4	2015.9
9°	1926.9	1899.8	1831.5	1756.5	1732.0
10°	1677.2	1649.1	1573.8	1490.3	1468.8
11°	1442.9	1416.5	1338.2	1250.6	1227.7
12°	1244.8	1207.3	1117.5	1041.4	1019.1
13°	1047.5	1021.9	936.7	861.5	818.2
14°	879.7	858.4	781.3	715.1	669.4
15°	731.7	714.3	649.8	585.3	544.5
16°	600.2	589.5	538.5	476.2	442.9
17°	487.0	477.0	444.5	387.2	359.1
18°	393.3	391.9	364.9	315.3	290.2
19°	323.5	323.0	298.2	256.6	235.9
20°	258.2	261.8	242.8	206.4	192.4
21°	210.5	212.5	197.3	169.8	157.1
22°	171.4	172.8	162.9	140.3	133.4
23°	140.5	141.4	133.1	116.3	110.2
24°	115.7	116.3	108.9	97.0	91.8
25°	95.6	96.2	89.3	81.0	76.9
26°	79.4	79.9	73.9	68.1	63.9
27°	65.9	67.0	60.9	57.3	52.9
28°	56.2	56.5	51.0	48.8	44.6
29°	46.0	47.7	43.0	41.1	38.0
30°	39.4	40.2	36.7	35.3	32.5
32.5°	26.2	26.7	25.1	24.0	21.8
35°	17.6	17.9	17.6	16.0	14.6
37.5°	12.1	12.1	12.4	10.5	9.9
40°	8.3	8.3	8.5	7.2	6.9
42.5°	6.1	6.1	5.8	5.0	5.0
45°	4.4	4.4	4.1	3.9	3.9
47.5°	3.6	3.3	3.0	3.0	3.0
50°	2.8	2.8	2.5	2.2	2.5
52.5°	2.2	2.2	1.9	1.9	1.9
55°	1.9	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.8	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
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°	1.1	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.6	0.6	0.8



(END OF REPORT)