

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: P282627

Luminaire Tested: **LDA2B058035D010 EU2B05NFL258035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282627
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: LDA2B058035D010 EU2B05NFL258035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 671.4 lumens
Efficiency: N/A
Efficacy: 95.9 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

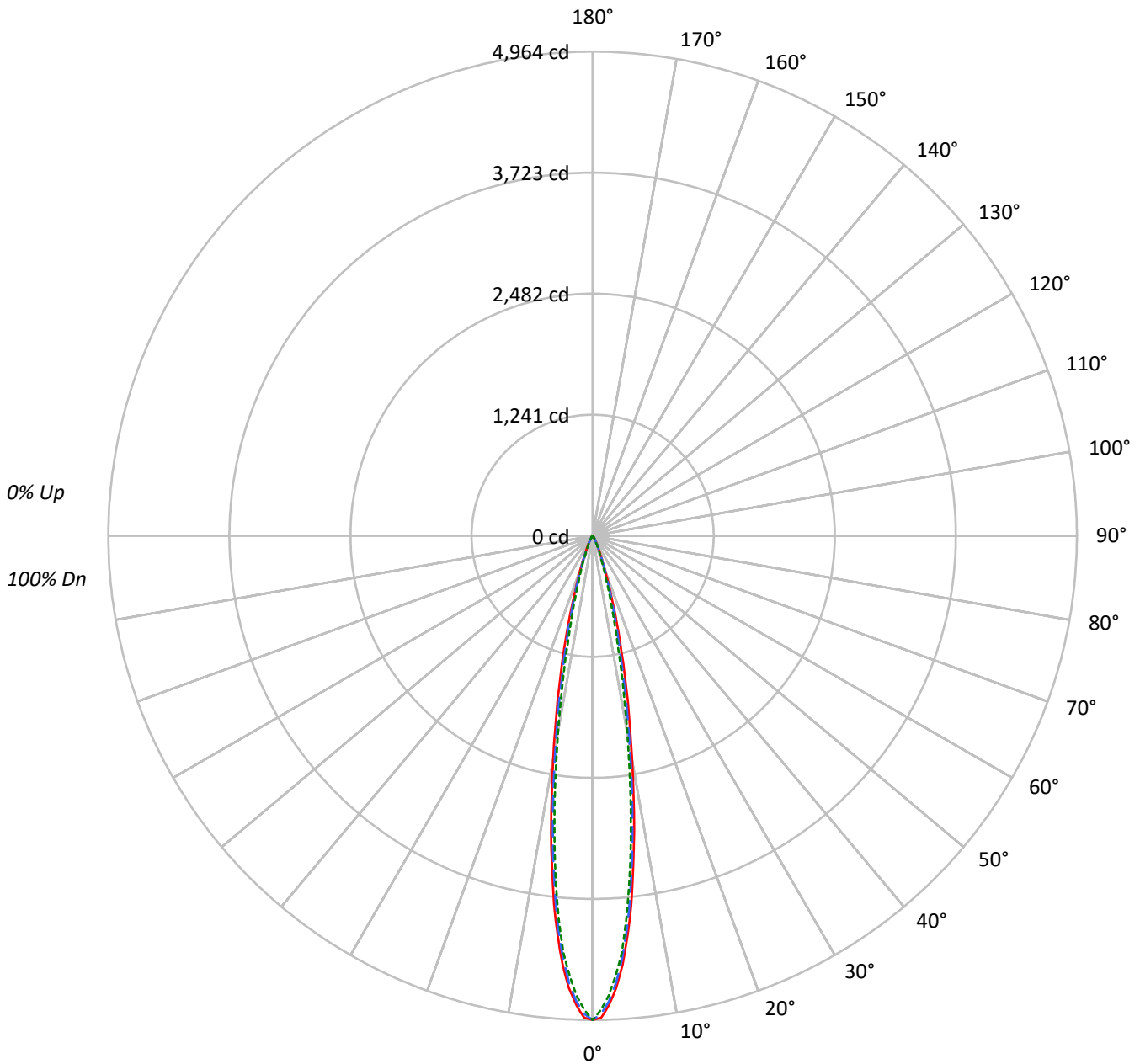
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2449147	2449147	2449147
5°	2037939	2000597	1960235
10°	1167316	1095377	1022335
15°	519193	461119	386394
20°	188326	177091	140287
25°	72346	67501	58138
30°	31162	28997	25750
35°	14756	14756	12226
40°	7406	7664	6183
45°	4256	3977	3768
50°	2917	2610	2610
55°	2322	1634	1978
60°	1875	1085	1480
65°	1284	934	1284
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	48.1
10°-20°	261.3	38.9
20°-30°	63.0	9.4
30°-40°	16.1	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	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°	647.2	96.4
0°-40°	663.2	98.8
0°-60°	670.0	99.8
0°-90°	671.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4964	4964	4964	4964	4964	
5°	4115	4077	4040	4004	3958	333
15°	1016	992	903	813	756	290
25°	133	134	124	113	107	69
35°	24	25	24	22	20	17
45°	6	6	6	5	5	5
55°	3	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°	4964.2	4964.2	4964.2	4964.2	4964.2
1°	4942.0	4907.6	4903.4	4924.8	4861.6
2°	4815.7	4791.2	4777.0	4789.7	4718.1
3°	4642.3	4618.5	4592.9	4593.2	4513.2
4°	4406.0	4387.3	4344.0	4331.0	4284.7
5°	4115.0	4077.1	4039.6	4004.4	3958.1
6°	3793.4	3744.4	3690.8	3638.4	3590.9
7°	3415.2	3382.6	3311.8	3240.2	3200.0
8°	3059.5	3007.0	2924.3	2834.7	2800.7
9°	2677.0	2639.5	2544.5	2440.4	2406.3
10°	2330.1	2291.1	2186.5	2070.5	2040.7
11°	2004.7	1967.9	1859.2	1737.4	1705.7
12°	1729.4	1677.3	1552.5	1446.9	1415.8
13°	1455.3	1419.7	1301.4	1196.8	1136.7
14°	1222.1	1192.6	1085.4	993.5	930.0
15°	1016.5	992.4	902.8	813.2	756.5
16°	833.9	819.0	748.1	661.6	615.3
17°	676.5	662.7	617.6	537.9	498.9
18°	546.3	544.4	506.9	438.0	403.2
19°	449.5	448.7	414.3	356.4	327.7
20°	358.7	363.7	337.3	286.8	267.2
21°	292.5	295.2	274.1	235.8	218.2
22°	238.1	240.1	226.3	194.9	185.3
23°	195.3	196.4	184.9	161.6	153.1
24°	160.8	161.6	151.2	134.8	127.5
25°	132.9	133.6	124.0	112.6	106.8
26°	110.3	111.0	102.6	94.6	88.8
27°	91.5	93.0	84.6	79.6	73.5
28°	78.1	78.5	70.8	67.8	62.0
29°	63.9	66.2	59.7	57.0	52.8
30°	54.7	55.9	50.9	49.0	45.2
32.5°	36.4	37.1	34.8	33.3	30.2
35°	24.5	24.9	24.5	22.2	20.3
37.5°	16.8	16.8	17.2	14.5	13.8
40°	11.5	11.5	11.9	10.0	9.6
42.5°	8.4	8.4	8.0	6.9	6.9
45°	6.1	6.1	5.7	5.4	5.4
47.5°	5.0	4.6	4.2	4.2	4.2
50°	3.8	3.8	3.4	3.1	3.4
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.8	0.8	1.1



(END OF REPORT)