

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: P282623

Luminaire Tested: **LDA2B058030D010 EU2B05NFL258030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282623
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: LDA2B058030D010 EU2B05NFL258030 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: 673.5 lumens
Efficiency: N/A
Efficacy: 96.2 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

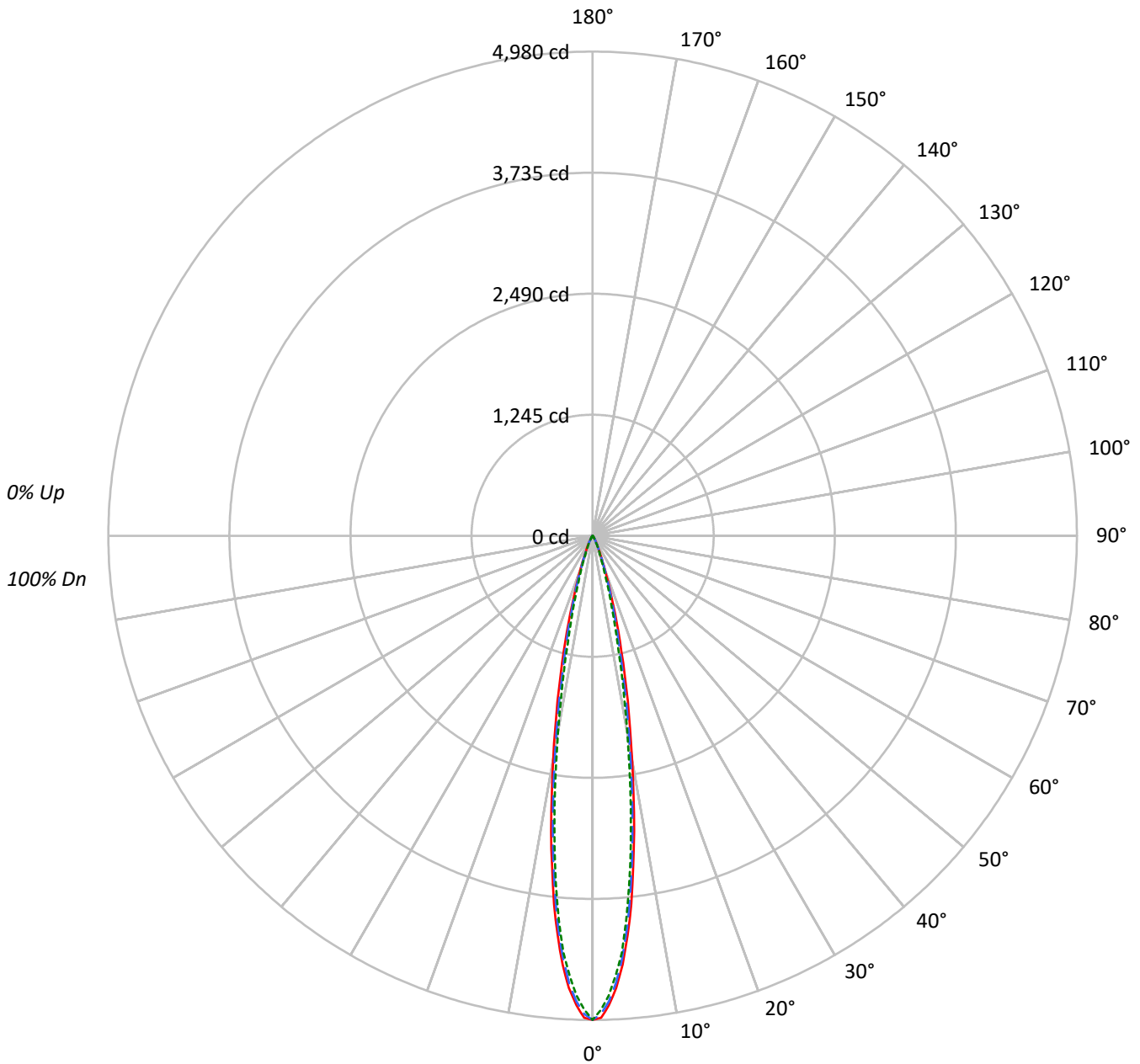
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282623

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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°	2456843	2456843	2456843
5°	2044377	2006887	1966376
10°	1170974	1098833	1025541
15°	520828	462549	387620
20°	188956	177668	140759
25°	72564	67719	58356
30°	31276	29111	25807
35°	14816	14816	12287
40°	7406	7664	6183
45°	4256	4047	3768
50°	2917	2686	2686
55°	2322	1634	1978
60°	1875	1184	1480
65°	1401	934	1401
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°	323.9	48.1
10°-20°	262.1	38.9
20°-30°	63.2	9.4
30°-40°	16.1	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.2
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°	649.2	96.4
0°-40°	665.3	98.8
0°-60°	672.2	99.8
0°-90°	673.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4980	4980	4980	4980	4980	
5°	4128	4090	4052	4017	3970	334
15°	1020	996	906	816	759	291
25°	133	134	124	113	107	69
35°	25	25	25	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°	4979.8	4979.8	4979.8	4979.8	4979.8
1°	4957.5	4923.0	4918.7	4940.3	4876.9
2°	4830.8	4806.2	4792.0	4804.7	4732.9
3°	4656.8	4633.0	4607.3	4607.7	4527.4
4°	4419.8	4401.0	4357.6	4344.6	4298.1
5°	4128.0	4089.9	4052.3	4017.0	3970.5
6°	3805.3	3756.2	3702.4	3649.8	3602.2
7°	3425.9	3393.2	3322.2	3250.4	3210.0
8°	3069.1	3016.5	2933.5	2843.6	2809.5
9°	2685.4	2647.8	2552.5	2448.0	2413.9
10°	2337.4	2298.3	2193.4	2077.0	2047.1
11°	2011.0	1974.1	1865.0	1742.9	1711.0
12°	1734.8	1682.6	1557.4	1451.4	1420.3
13°	1459.8	1424.1	1305.4	1200.6	1140.3
14°	1225.9	1196.4	1088.8	996.7	932.9
15°	1019.7	995.5	905.6	815.8	758.9
16°	836.5	821.5	750.5	663.7	617.2
17°	678.6	664.8	619.5	539.6	500.4
18°	548.1	546.1	508.5	439.4	404.4
19°	450.9	450.1	415.6	357.6	328.8
20°	359.9	364.9	338.4	287.7	268.1
21°	293.4	296.1	275.0	236.6	218.9
22°	238.9	240.8	227.0	195.5	185.9
23°	195.9	197.0	185.5	162.1	153.6
24°	161.3	162.1	151.7	135.2	127.9
25°	133.3	134.0	124.4	112.9	107.2
26°	110.6	111.4	102.9	94.9	89.1
27°	91.8	93.3	84.9	79.9	73.7
28°	78.3	78.7	71.1	68.0	62.2
29°	64.1	66.4	59.9	57.2	53.0
30°	54.9	56.1	51.1	49.2	45.3
32.5°	36.5	37.3	35.0	33.4	30.3
35°	24.6	25.0	24.6	22.3	20.4
37.5°	16.9	16.9	17.3	14.6	13.8
40°	11.5	11.5	11.9	10.0	9.6
42.5°	8.4	8.4	8.1	6.9	6.9
45°	6.1	6.1	5.8	5.4	5.4
47.5°	5.0	4.6	4.2	4.2	4.2
50°	3.8	3.8	3.5	3.1	3.5
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	1.2	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	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	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)