

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: P282706

Luminaire Tested: **LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282706
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: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1197.3 lumens
Efficiency: N/A
Efficacy: 84.9 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

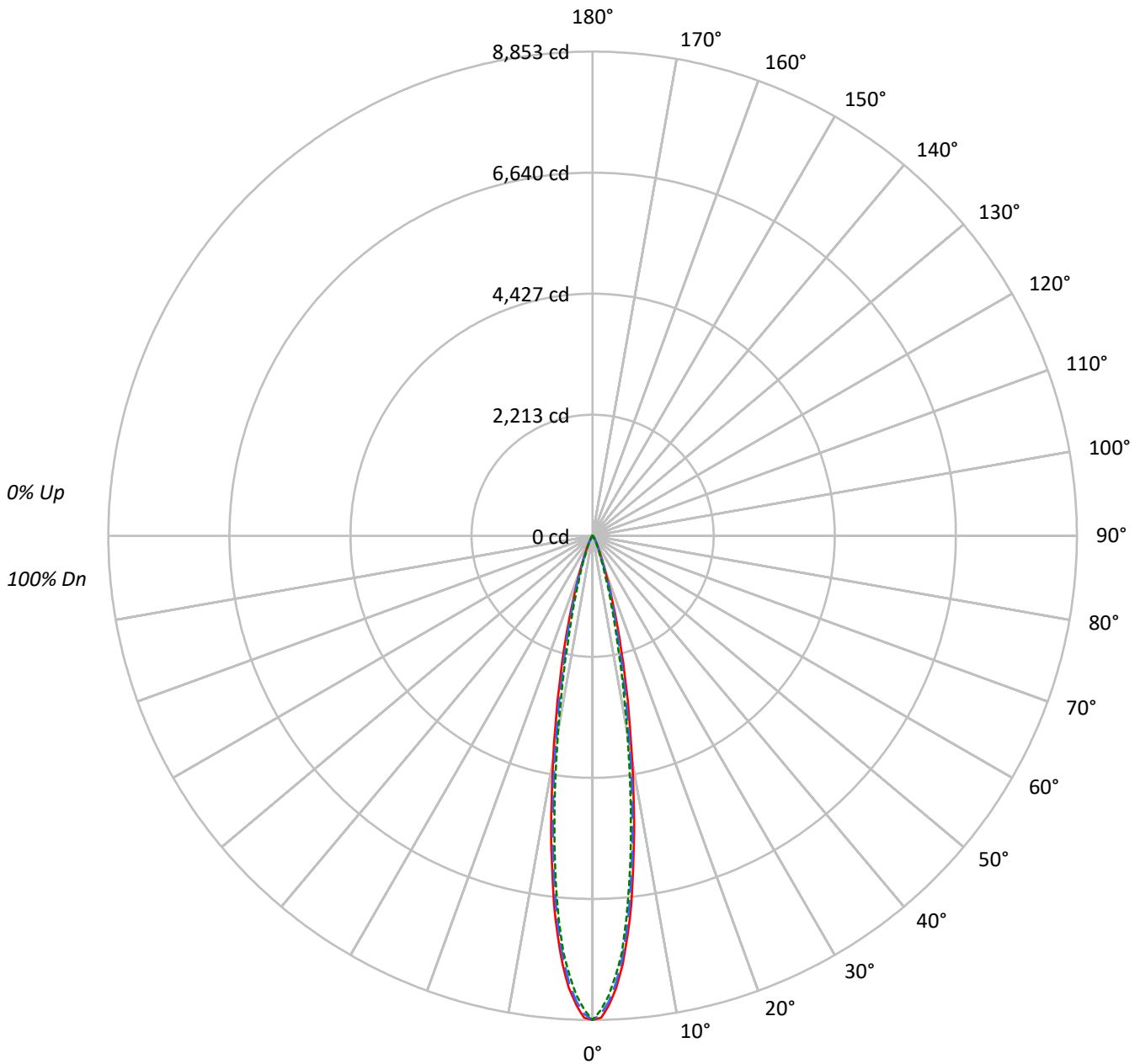
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	88	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°	4367880	4367880	4367880
5°	3634514	3567903	3495894
10°	2081842	1953543	1823240
15°	925967	822384	689125
20°	335911	315855	250227
25°	128960	120413	103701
30°	55601	51727	45917
35°	26320	26320	21803
40°	13203	13654	11013
45°	7605	7117	6698
50°	5219	4682	4682
55°	4129	2925	3527
60°	3355	1973	2664
65°	2335	1634	2335
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.8	48.1
10°-20°	466.0	38.9
20°-30°	112.4	9.4
30°-40°	28.6	2.4
40°-50°	8.5	0.7
50°-60°	3.6	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1154.2	96.4
0°-40°	1182.8	98.8
0°-60°	1195.0	99.8
0°-90°	1197.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8853	8853	8853	8853	8853	
5°	7339	7271	7204	7142	7059	593
15°	1813	1770	1610	1450	1349	517
25°	237	238	221	201	190	122
35°	44	44	44	40	36	30
45°	11	11	10	10	10	9
55°	5	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	8853.3	8853.3	8853.3	8853.3	8853.3
1°	8813.7	8752.2	8744.7	8783.0	8670.3
2°	8588.4	8544.7	8519.4	8541.9	8414.3
3°	8279.1	8236.7	8191.0	8191.7	8049.0
4°	7857.8	7824.3	7747.2	7723.9	7641.3
5°	7338.8	7271.2	7204.3	7141.5	7058.9
6°	6765.3	6677.9	6582.3	6488.7	6404.1
7°	6090.7	6032.6	5906.3	5778.6	5706.9
8°	5456.3	5362.8	5215.3	5055.5	4994.7
9°	4774.2	4707.3	4537.9	4352.2	4291.5
10°	4155.6	4085.9	3899.5	3692.6	3639.4
11°	3575.2	3509.6	3315.7	3098.6	3041.9
12°	3084.2	2991.4	2768.8	2580.3	2525.0
13°	2595.4	2531.9	2320.9	2134.5	2027.3
14°	2179.5	2127.0	1935.8	1771.9	1658.5
15°	1812.9	1769.8	1610.1	1450.3	1349.2
16°	1487.2	1460.5	1334.2	1179.9	1097.3
17°	1206.5	1181.9	1101.4	959.3	889.7
18°	974.4	971.0	904.0	781.1	719.0
19°	801.6	800.3	738.8	635.7	584.5
20°	639.8	648.7	601.6	511.4	476.6
21°	521.7	526.4	488.9	420.6	389.2
22°	424.7	428.1	403.5	347.5	330.5
23°	348.2	350.3	329.8	288.1	273.1
24°	286.8	288.1	269.7	240.3	227.4
25°	236.9	238.3	221.2	200.7	190.5
26°	196.6	198.0	183.0	168.7	158.4
27°	163.2	165.9	150.9	142.0	131.1
28°	139.3	140.0	126.3	120.9	110.6
29°	114.0	118.1	106.5	101.7	94.2
30°	97.6	99.7	90.8	87.4	80.6
32.5°	64.9	66.2	62.1	59.4	53.9
35°	43.7	44.4	43.7	39.6	36.2
37.5°	30.0	30.0	30.7	25.9	24.6
40°	20.5	20.5	21.2	17.8	17.1
42.5°	15.0	15.0	14.3	12.3	12.3
45°	10.9	10.9	10.2	9.6	9.6
47.5°	8.9	8.2	7.5	7.5	7.5
50°	6.8	6.8	6.1	5.5	6.1
52.5°	5.5	5.5	4.8	4.8	4.8
55°	4.8	4.1	3.4	3.4	4.1
57.5°	3.4	3.4	2.7	2.7	3.4
60°	3.4	2.7	2.0	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.7	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.4	1.4	2.0



(END OF REPORT)