

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: P282705

Luminaire Tested: **LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282705
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 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: 1177.6 lumens
Efficiency: N/A
Efficacy: 83.5 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

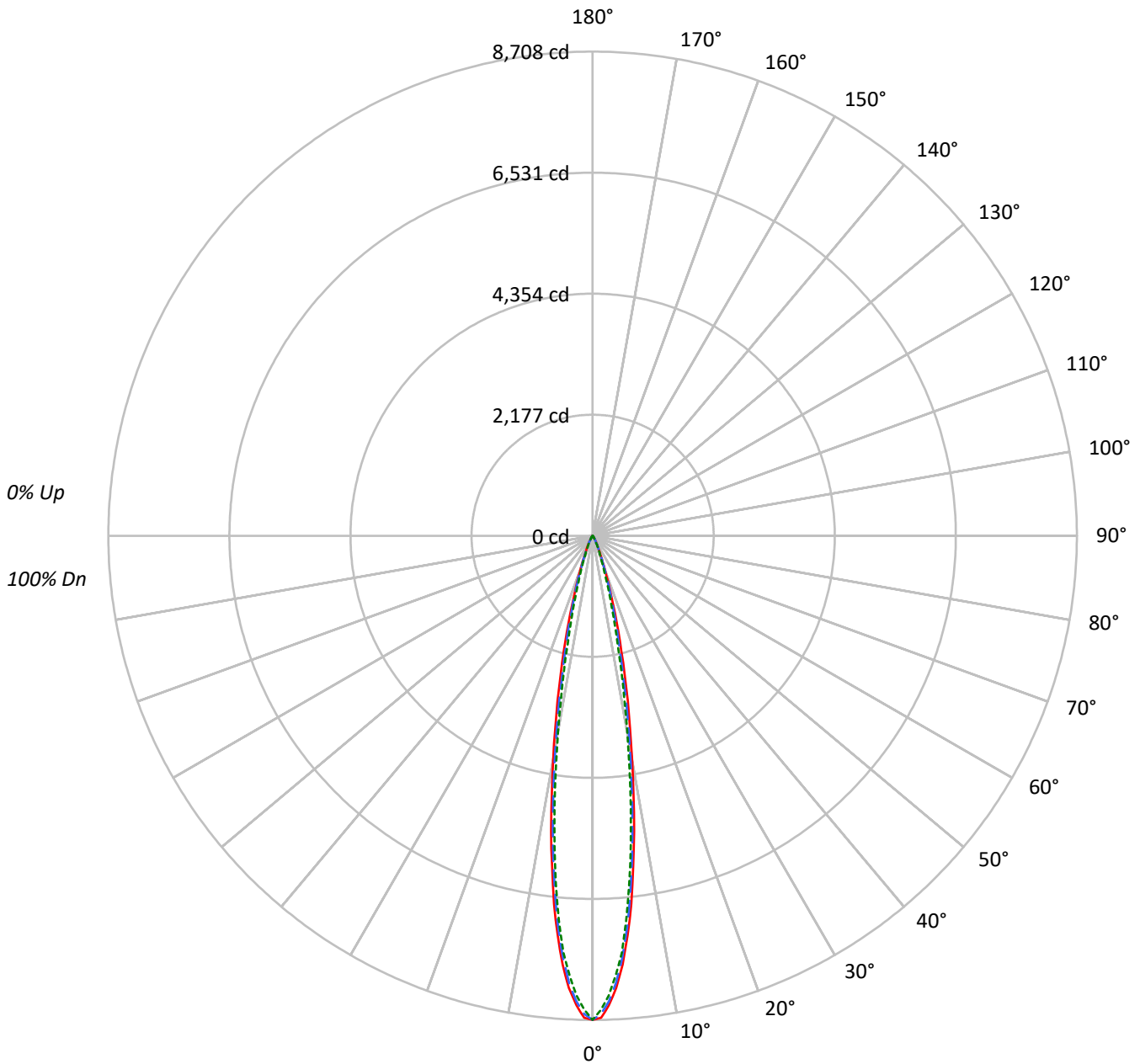
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282705

CATALOG NUMBER: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282705

CATALOG NUMBER: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MB

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°	4295948	4295948	4295948
5°	3574639	3509118	3438297
10°	2047525	1921381	1793182
15°	910695	808797	677786
20°	330398	310605	246079
25°	126837	118454	102014
30°	54690	50873	45119
35°	25898	25898	21441
40°	12945	13396	10820
45°	7466	7047	6559
50°	5142	4605	4605
55°	4043	2925	3441
60°	3355	1973	2664
65°	2335	1518	2335
70°	1875	1010	1875
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282705

CATALOG NUMBER: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.3	48.1
10°-20°	458.3	38.9
20°-30°	110.5	9.4
30°-40°	28.2	2.4
40°-50°	8.4	0.7
50°-60°	3.6	0.3
60°-70°	1.7	0.1
70°-80°	0.6	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°	1135.1	96.4
0°-40°	1163.3	98.8
0°-60°	1175.3	99.8
0°-90°	1177.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8708	8708	8708	8708	8708	
5°	7218	7152	7086	7024	6943	584
15°	1783	1741	1584	1426	1327	508
25°	233	234	218	197	187	120
35°	43	44	43	39	36	30
45°	11	11	10	9	9	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



TEST NUMBER: P282705

CATALOG NUMBER: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8707.5	8707.5	8707.5	8707.5	8707.5
1°	8668.5	8608.1	8600.7	8638.3	8527.5
2°	8446.9	8403.9	8379.1	8401.2	8275.6
3°	8142.7	8101.0	8056.0	8056.7	7916.4
4°	7728.3	7695.4	7619.5	7596.7	7515.4
5°	7217.9	7151.5	7085.6	7023.9	6942.6
6°	6653.8	6567.9	6473.8	6381.8	6298.6
7°	5990.3	5933.2	5809.0	5683.4	5612.9
8°	5366.4	5274.4	5129.4	4972.2	4912.5
9°	4695.6	4629.7	4463.2	4280.5	4220.8
10°	4087.1	4018.6	3835.3	3631.8	3579.4
11°	3516.3	3451.8	3261.1	3047.5	2991.8
12°	3033.4	2942.1	2723.2	2537.8	2483.4
13°	2552.6	2490.1	2282.6	2099.3	1993.9
14°	2143.6	2091.9	1903.9	1742.7	1631.2
15°	1783.0	1740.7	1583.5	1426.4	1327.0
16°	1462.7	1436.5	1312.2	1160.5	1079.2
17°	1186.6	1162.5	1083.2	943.5	875.0
18°	958.3	955.0	889.1	768.3	707.2
19°	788.4	787.1	726.6	625.2	574.9
20°	629.3	638.0	591.6	503.0	468.7
21°	513.1	517.8	480.8	413.7	382.8
22°	417.7	421.1	396.9	341.8	325.0
23°	342.5	344.5	324.4	283.4	268.6
24°	282.1	283.4	265.3	236.4	223.6
25°	233.0	234.4	217.6	197.4	187.4
26°	193.4	194.8	180.0	165.9	155.8
27°	160.5	163.2	148.4	139.7	128.9
28°	137.0	137.7	124.2	118.9	108.8
29°	112.2	116.2	104.8	100.1	92.7
30°	96.0	98.0	89.3	86.0	79.2
32.5°	63.8	65.1	61.1	58.4	53.1
35°	43.0	43.7	43.0	39.0	35.6
37.5°	29.5	29.5	30.2	25.5	24.2
40°	20.1	20.1	20.8	17.5	16.8
42.5°	14.8	14.8	14.1	12.1	12.1
45°	10.7	10.7	10.1	9.4	9.4
47.5°	8.7	8.1	7.4	7.4	7.4
50°	6.7	6.7	6.0	5.4	6.0
52.5°	5.4	5.4	4.7	4.7	4.7
55°	4.7	4.0	3.4	3.4	4.0
57.5°	3.4	3.4	2.7	2.7	3.4
60°	3.4	2.7	2.0	2.7	2.7



TEST NUMBER: P282705

CATALOG NUMBER: LDA2B158027D010 EU2B15NFL258027 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.7	0.7	1.3
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	2.7	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.3	1.3	2.0



(END OF REPORT)