

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: P282711

Luminaire Tested: **LDA2B158035D010 EU2B15NFL258035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282711
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: LDA2B158035D010 EU2B15NFL258035 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: 1213.7 lumens
Efficiency: N/A
Efficacy: 86.1 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

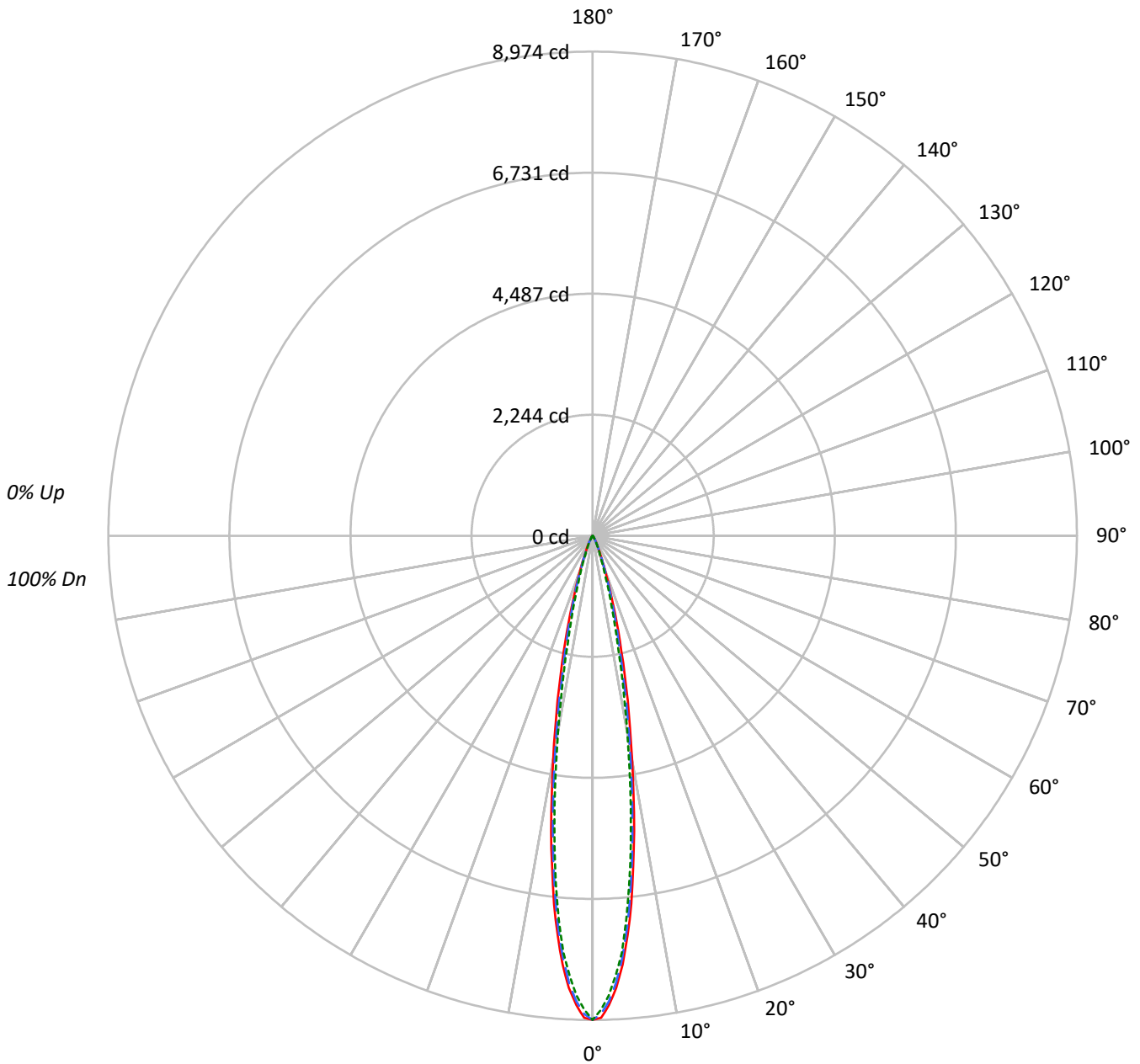
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4427330	4427330	4427330
5°	3683989	3616487	3543488
10°	2110147	1980145	1848038
15°	938532	833570	698523
20°	340478	320108	253639
25°	130756	122047	105117
30°	56399	52411	46543
35°	26681	26681	22104
40°	13396	13847	11142
45°	7745	7256	6768
50°	5296	4759	4759
55°	4129	3011	3613
60°	3454	2072	2763
65°	2452	1634	2452
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°	583.7	48.1
10°-20°	472.3	38.9
20°-30°	113.9	9.4
30°-40°	29.0	2.4
40°-50°	8.7	0.7
50°-60°	3.7	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°	1169.9	96.4
0°-40°	1198.9	98.8
0°-60°	1211.3	99.8
0°-90°	1213.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8974	8974	8974	8974	8974	
5°	7439	7370	7302	7239	7155	602
15°	1838	1794	1632	1470	1368	524
25°	240	242	224	204	193	124
35°	44	45	44	40	37	31
45°	11	11	10	10	10	9
55°	5	4	4	4	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°	8973.8	8973.8	8973.8	8973.8	8973.8
1°	8933.7	8871.4	8863.8	8902.5	8788.3
2°	8705.3	8661.0	8635.4	8658.2	8528.8
3°	8391.8	8348.9	8302.5	8303.2	8158.5
4°	7964.7	7930.8	7852.6	7829.1	7745.3
5°	7438.7	7370.2	7302.4	7238.7	7155.0
6°	6857.4	6768.8	6671.9	6577.1	6491.2
7°	6173.6	6114.7	5986.7	5857.3	5784.6
8°	5530.6	5435.8	5286.3	5124.3	5062.7
9°	4839.2	4771.4	4599.7	4411.5	4349.9
10°	4212.1	4141.6	3952.6	3742.9	3688.9
11°	3623.9	3557.4	3360.9	3140.8	3083.3
12°	3126.2	3032.1	2806.5	2615.5	2559.4
13°	2630.7	2566.3	2352.5	2163.5	2054.9
14°	2209.2	2155.9	1962.1	1796.0	1681.1
15°	1837.5	1793.9	1632.0	1470.0	1367.6
16°	1507.4	1480.4	1352.4	1196.0	1112.2
17°	1222.9	1198.0	1116.4	972.4	901.8
18°	987.6	984.2	916.3	791.8	728.8
19°	812.5	811.1	748.9	644.3	592.4
20°	648.5	657.5	609.7	518.4	483.1
21°	528.8	533.6	495.5	426.3	394.5
22°	430.5	433.9	409.0	352.3	335.0
23°	353.0	355.0	334.3	292.1	276.8
24°	290.7	292.1	273.4	243.6	230.5
25°	240.2	241.5	224.2	203.5	193.1
26°	199.3	200.7	185.5	170.9	160.6
27°	165.4	168.2	153.0	144.0	132.9
28°	141.2	141.9	128.0	122.5	112.1
29°	115.6	119.7	108.0	103.1	95.5
30°	99.0	101.0	92.0	88.6	81.7
32.5°	65.7	67.1	63.0	60.2	54.7
35°	44.3	45.0	44.3	40.1	36.7
37.5°	30.5	30.5	31.1	26.3	24.9
40°	20.8	20.8	21.5	18.0	17.3
42.5°	15.2	15.2	14.5	12.5	12.5
45°	11.1	11.1	10.4	9.7	9.7
47.5°	9.0	8.3	7.6	7.6	7.6
50°	6.9	6.9	6.2	5.5	6.2
52.5°	5.5	5.5	4.8	4.8	4.8
55°	4.8	4.2	3.5	3.5	4.2
57.5°	3.5	3.5	2.8	2.8	3.5
60°	3.5	2.8	2.1	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)