

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: P282321

Luminaire Tested: **LDA2B159027D010 EU2B15NFL259027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282321
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: LDA2B159027D010 EU2B15NFL259027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1009.8 lumens
Efficiency: N/A
Efficacy: 71.6 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

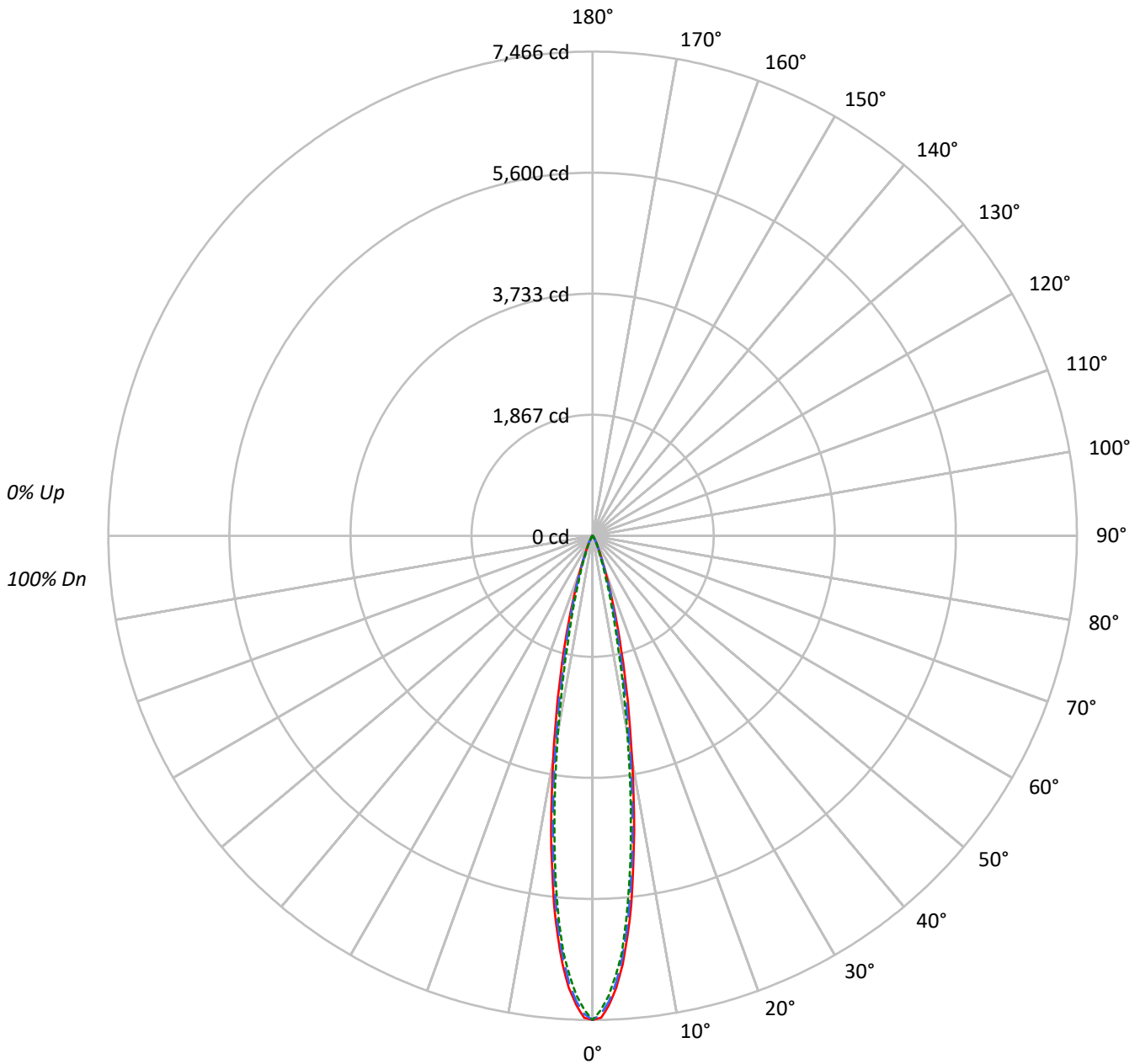
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3683587	3683587	3683587
5°	3065129	3008919	2948202
10°	1755659	1647499	1537585
15°	780859	693518	581200
20°	283303	266345	211007
25°	108764	101578	87479
30°	46885	43638	38682
35°	22224	22224	18370
40°	11142	11528	9274
45°	6419	6000	5652
50°	4452	3991	3991
55°	3441	2494	3011
60°	2861	1677	2269
65°	1985	1401	1985
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.6	48.1
10°-20°	393.0	38.9
20°-30°	94.8	9.4
30°-40°	24.2	2.4
40°-50°	7.2	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	973.3	96.4
0°-40°	997.5	98.8
0°-60°	1007.8	99.8
0°-90°	1009.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7466	7466	7466	7466	7466	
5°	6189	6132	6076	6023	5953	500
15°	1529	1493	1358	1223	1138	436
25°	200	201	187	169	161	103
35°	37	37	37	33	30	25
45°	9	9	9	8	8	8
55°	4	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°	7466.3	7466.3	7466.3	7466.3	7466.3
1°	7432.9	7381.1	7374.7	7407.0	7312.0
2°	7242.9	7206.0	7184.7	7203.7	7096.0
3°	6982.0	6946.3	6907.7	6908.3	6788.0
4°	6626.7	6598.5	6533.4	6513.9	6444.2
5°	6189.1	6132.1	6075.6	6022.7	5953.0
6°	5705.4	5631.7	5551.1	5472.2	5400.8
7°	5136.5	5087.5	4981.0	4873.3	4812.8
8°	4601.5	4522.6	4398.2	4263.5	4212.2
9°	4026.2	3969.8	3827.0	3670.4	3619.1
10°	3504.5	3445.8	3288.6	3114.1	3069.2
11°	3015.1	2959.8	2796.3	2613.1	2565.3
12°	2601.1	2522.7	2335.0	2176.1	2129.4
13°	2188.8	2135.2	1957.3	1800.1	1709.7
14°	1838.1	1793.7	1632.5	1494.3	1398.7
15°	1528.8	1492.6	1357.8	1223.1	1137.9
16°	1254.2	1231.7	1125.2	995.0	925.4
17°	1017.5	996.8	928.8	809.0	750.3
18°	821.7	818.8	762.4	658.8	606.4
19°	676.0	674.9	623.1	536.1	492.9
20°	539.6	547.0	507.3	431.3	401.9
21°	439.9	444.0	412.3	354.7	328.2
22°	358.2	361.0	340.3	293.1	278.7
23°	293.7	295.4	278.1	243.0	230.3
24°	241.9	243.0	227.5	202.7	191.8
25°	199.8	201.0	186.6	169.3	160.7
26°	165.8	167.0	154.3	142.2	133.6
27°	137.6	139.9	127.3	119.8	110.6
28°	117.5	118.0	106.5	101.9	93.3
29°	96.2	99.6	89.8	85.8	79.5
30°	82.3	84.1	76.6	73.7	67.9
32.5°	54.7	55.9	52.4	50.1	45.5
35°	36.9	37.4	36.9	33.4	30.5
37.5°	25.3	25.3	25.9	21.9	20.7
40°	17.3	17.3	17.9	15.0	14.4
42.5°	12.7	12.7	12.1	10.4	10.4
45°	9.2	9.2	8.6	8.1	8.1
47.5°	7.5	6.9	6.3	6.3	6.3
50°	5.8	5.8	5.2	4.6	5.2
52.5°	4.6	4.6	4.0	4.0	4.0
55°	4.0	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.7	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.2	1.2	1.7



(END OF REPORT)