

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: P283865

Luminaire Tested: **LDA2B059727D010 EU2B05WFL559727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059727D010 EU2B05WFL559727 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 478.2 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

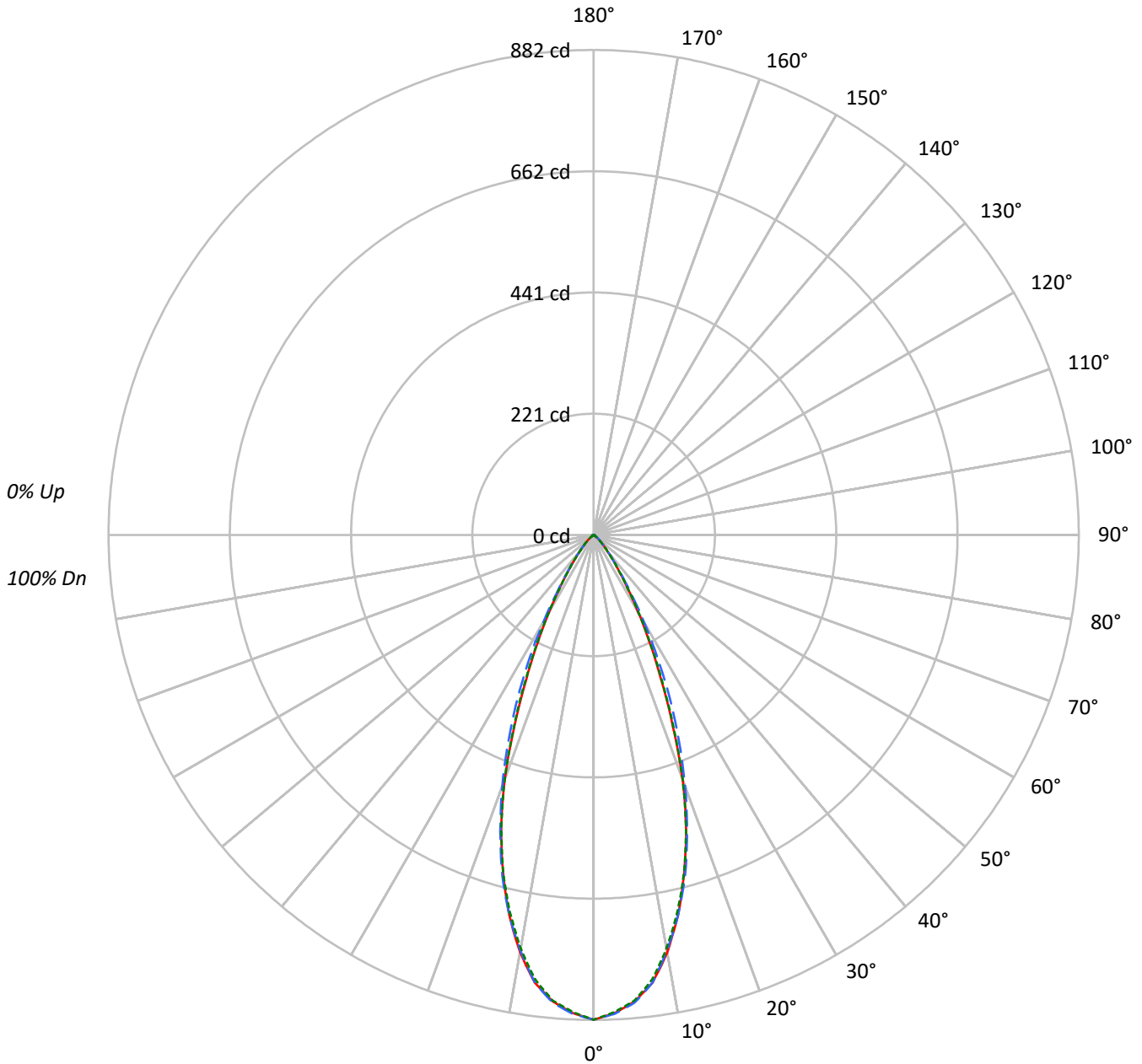
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	434997	434997	434997
5°	421900	422940	421009
10°	386200	384647	382342
15°	324847	327861	324336
20°	248389	255004	248022
25°	157757	177844	160805
30°	91719	103569	93371
35°	48484	51616	48665
40°	25568	26728	25568
45°	14303	14861	14513
50°	6678	8443	6678
55°	2408	4645	2666
60°	2763	2763	2763
65°	3035	3269	3035
70°	3750	3318	3750
75°	3431	3431	3431
80°	3694	2841	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	16.5
10°-20°	175.2	36.6
20°-30°	141.5	29.6
30°-40°	55.9	11.7
40°-50°	17.2	3.6
50°-60°	4.4	0.9
60°-70°	2.7	0.6
70°-80°	2.0	0.4
80°-90°	0.6	0.1
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°	395.5	82.7
0°-40°	451.4	94.4
0°-60°	473.0	98.9
0°-90°	478.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	478.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	852	854	854	852	850	79
15°	636	638	642	639	635	175
25°	290	304	327	309	295	135
35°	80	83	86	83	81	54
45°	20	21	21	21	21	17
55°	3	4	5	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.7	881.7	881.7	881.7	881.7
2.5°	870.6	871.2	871.9	870.9	868.3
5°	851.9	853.5	854.0	852.2	850.1
7.5°	821.1	819.4	820.9	817.8	815.3
10°	770.9	768.6	767.8	763.2	763.2
12.5°	708.8	708.1	708.6	706.3	702.7
15°	636.0	637.8	641.9	639.3	635.0
17.5°	558.8	561.4	565.0	564.2	558.3
20°	473.1	480.6	485.7	480.8	472.4
22.5°	375.7	391.6	404.7	394.4	380.6
25°	289.8	303.6	326.7	309.3	295.4
27.5°	219.8	229.8	250.8	233.6	224.1
30°	161.0	167.2	181.8	170.5	163.9
32.5°	115.1	119.5	125.7	119.0	115.7
35°	80.5	82.8	85.7	83.1	80.8
37.5°	56.7	57.4	59.5	57.4	56.4
40°	39.7	40.0	41.5	40.3	39.7
42.5°	28.7	28.7	29.5	29.0	28.7
45°	20.5	20.8	21.3	21.0	20.8
47.5°	14.6	15.1	15.1	15.4	14.4
50°	8.7	10.8	11.0	10.8	8.7
52.5°	4.6	6.4	7.9	6.4	4.6
55°	2.8	3.8	5.4	3.8	3.1
57.5°	2.8	2.8	3.6	3.1	2.8
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.6	2.8	2.8	2.8	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.3	2.6	2.6
72.5°	2.3	2.3	2.1	2.3	2.3
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.3	1.3	1.0	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)