

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: P283831

Luminaire Tested: **LDA2B059024D010 EU2B05WFL559024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283831
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: LDA2B059024D010 EU2B05WFL559024 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 482.8 lumens
Efficiency: N/A
Efficacy: 69.0 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

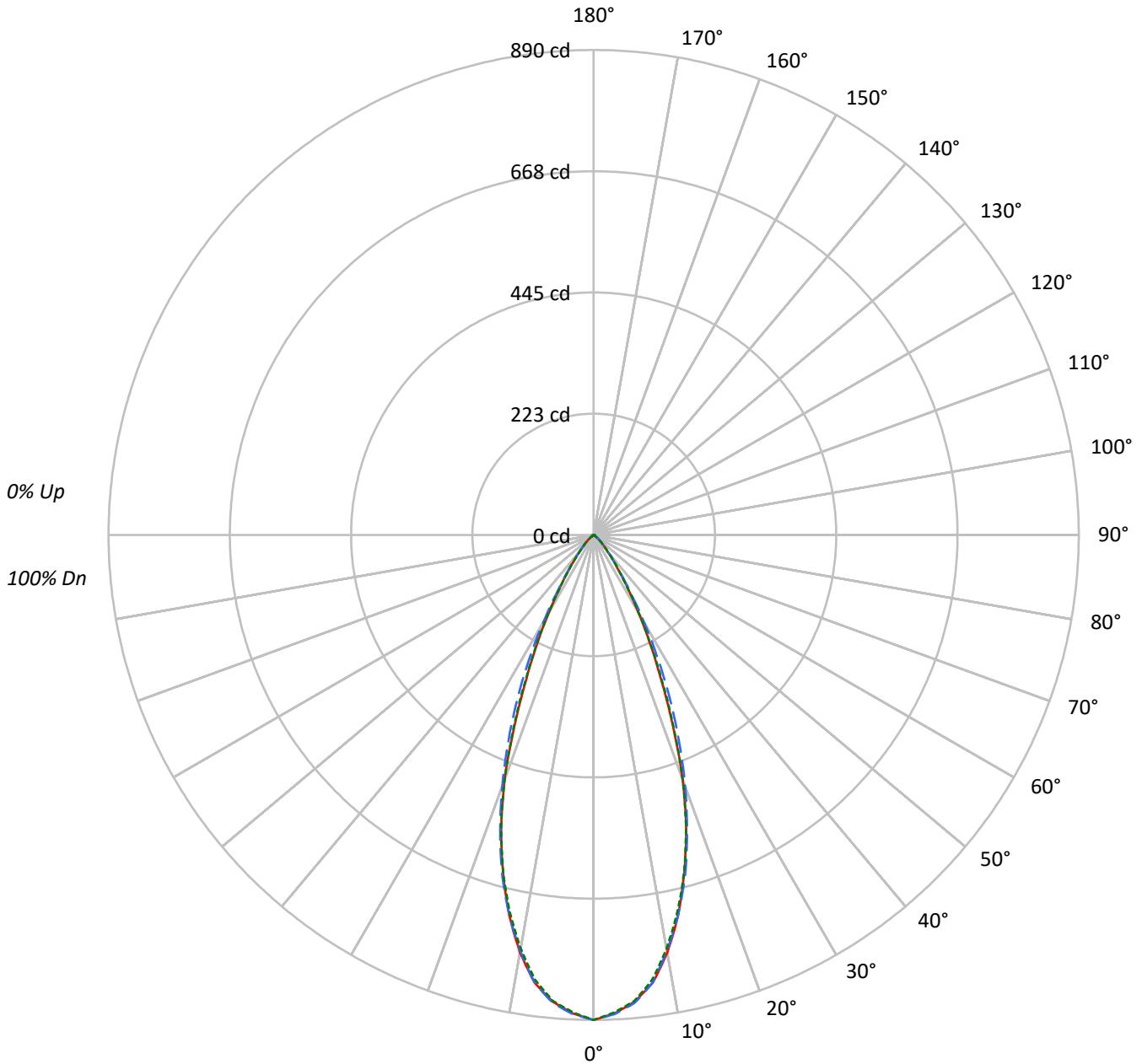
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	439191	439191	439191
5°	425961	427001	425070
10°	389907	388354	385999
15°	327963	331027	327452
20°	250804	257472	250384
25°	159281	179586	162384
30°	92631	104594	94226
35°	48966	52098	49146
40°	25826	26985	25826
45°	14443	15001	14652
50°	6754	8520	6754
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°	79.5	16.5
10°-20°	176.9	36.6
20°-30°	142.9	29.6
30°-40°	56.5	11.7
40°-50°	17.3	3.6
50°-60°	4.5	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°	399.3	82.7
0°-40°	455.7	94.4
0°-60°	477.5	98.9
0°-90°	482.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	860	862	862	860	858	80
15°	642	644	648	646	641	176
25°	293	307	330	312	298	136
35°	81	84	86	84	82	54
45°	21	21	22	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°	890.2	890.2	890.2	890.2	890.2
2.5°	879.0	879.5	880.3	879.3	876.7
5°	860.1	861.7	862.2	860.4	858.3
7.5°	829.1	827.2	828.8	825.7	823.1
10°	778.3	776.0	775.2	770.5	770.5
12.5°	715.6	714.9	715.4	713.1	709.4
15°	642.1	643.9	648.1	645.5	641.1
17.5°	564.2	566.8	570.4	569.6	563.7
20°	477.7	485.2	490.4	485.5	476.9
22.5°	379.3	395.4	408.6	398.2	384.2
25°	292.6	306.6	329.9	312.3	298.3
27.5°	221.9	232.0	253.2	235.9	226.3
30°	162.6	168.8	183.6	172.2	165.4
32.5°	116.3	120.7	126.9	120.1	116.8
35°	81.3	83.6	86.5	83.9	81.6
37.5°	57.2	58.0	60.1	58.0	57.0
40°	40.1	40.4	41.9	40.6	40.1
42.5°	29.0	29.0	29.8	29.3	29.0
45°	20.7	21.0	21.5	21.2	21.0
47.5°	14.8	15.3	15.3	15.5	14.5
50°	8.8	10.9	11.1	10.9	8.8
52.5°	4.7	6.5	8.0	6.5	4.7
55°	2.8	3.9	5.4	3.9	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°	1.6	1.6	1.6	1.6	1.6
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)