

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: P283869

Luminaire Tested: **LDA2B059730D010 EU2B05WFL559730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283869
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: LDA2B059730D010 EU2B05WFL559730 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 527.6 lumens
Efficiency: N/A
Efficacy: 75.4 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

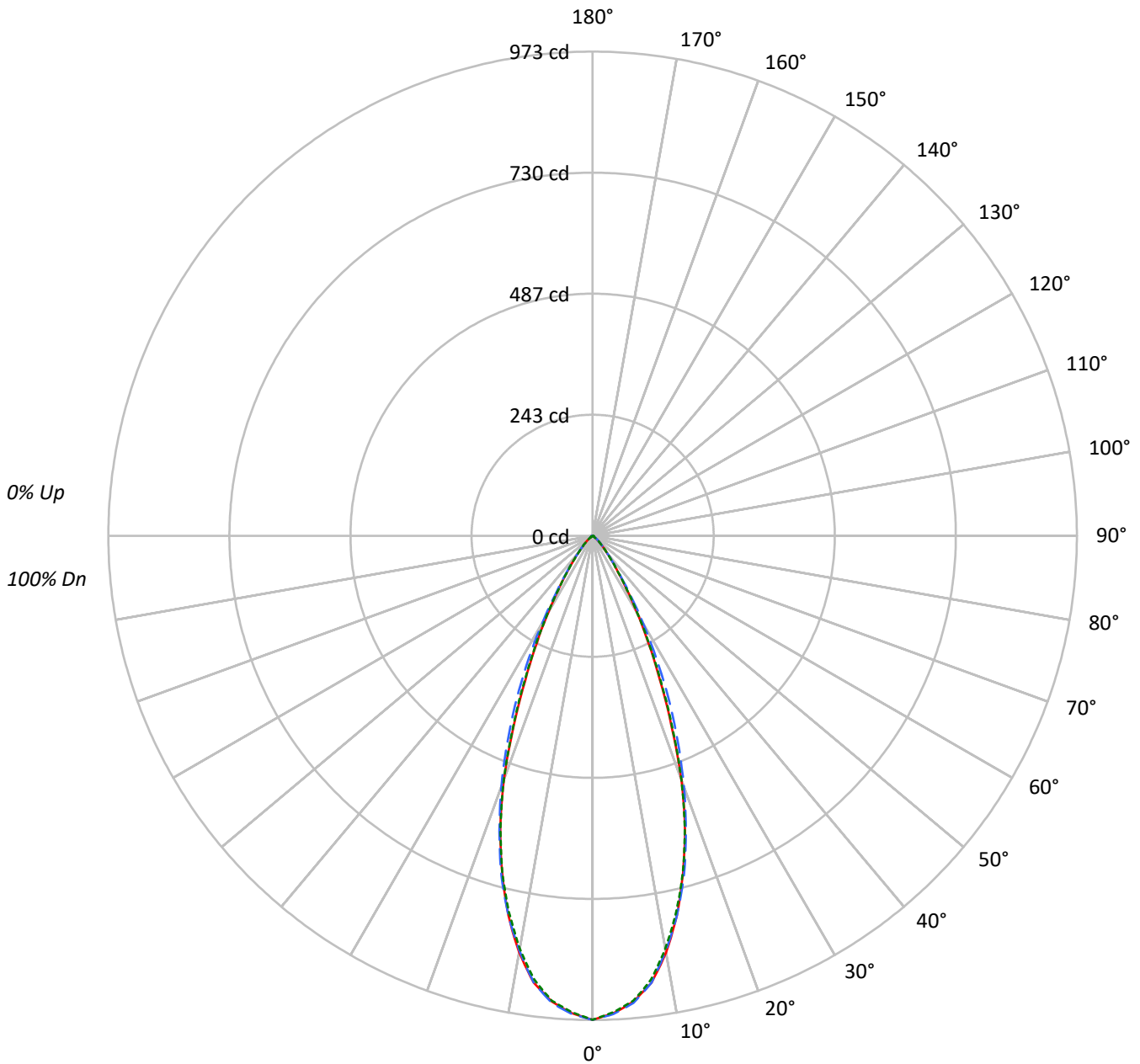
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	479893	479893	479893
5°	465482	466621	464492
10°	426077	424374	421819
15°	358404	361724	357791
20°	274063	281361	273643
25°	174033	196243	177408
30°	101233	114279	102999
35°	53483	56916	53663
40°	28273	29497	28273
45°	15768	16396	15978
50°	7368	9364	7368
55°	2666	5075	2925
60°	3059	3059	3059
65°	3269	3619	3269
70°	4039	3606	4039
75°	3812	3812	3812
80°	3978	3125	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	16.5
10°-20°	193.3	36.6
20°-30°	156.1	29.6
30°-40°	61.7	11.7
40°-50°	18.9	3.6
50°-60°	4.9	0.9
60°-70°	2.9	0.6
70°-80°	2.2	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°	436.3	82.7
0°-40°	498.0	94.4
0°-60°	521.8	98.9
0°-90°	527.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	527.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	940	942	942	940	938	87
15°	702	704	708	705	700	193
25°	320	335	360	341	326	149
35°	89	91	94	92	89	59
45°	23	23	24	23	23	18
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.7	972.7	972.7	972.7	972.7
2.5°	960.5	961.1	962.0	960.8	958.0
5°	939.9	941.6	942.2	940.2	937.9
7.5°	905.9	904.0	905.7	902.3	899.4
10°	850.5	847.9	847.1	842.0	842.0
12.5°	782.0	781.2	781.7	779.2	775.2
15°	701.7	703.6	708.2	705.3	700.5
17.5°	616.5	619.3	623.3	622.4	615.9
20°	522.0	530.2	535.9	530.5	521.2
22.5°	414.5	432.0	446.5	435.1	419.9
25°	319.7	335.0	360.5	341.2	325.9
27.5°	242.5	253.5	276.7	257.7	247.3
30°	177.7	184.5	200.6	188.1	180.8
32.5°	127.0	131.8	138.6	131.3	127.6
35°	88.8	91.4	94.5	91.7	89.1
37.5°	62.5	63.4	65.6	63.4	62.2
40°	43.9	44.1	45.8	44.4	43.9
42.5°	31.7	31.7	32.5	32.0	31.7
45°	22.6	22.9	23.5	23.2	22.9
47.5°	16.1	16.7	16.7	17.0	15.8
50°	9.6	11.9	12.2	11.9	9.6
52.5°	5.1	7.1	8.8	7.1	5.1
55°	3.1	4.2	5.9	4.2	3.4
57.5°	3.1	3.1	4.0	3.4	3.1
60°	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.8	3.1	3.1	3.1	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.5	2.8	2.8
72.5°	2.5	2.5	2.3	2.5	2.5
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.6	0.6	0.6	0.6	0.6
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)