

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: P283863

Luminaire Tested: **LDA2B059727D010 EU2B05WFL559727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283863
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 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: 495.7 lumens
Efficiency: N/A
Efficacy: 70.8 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

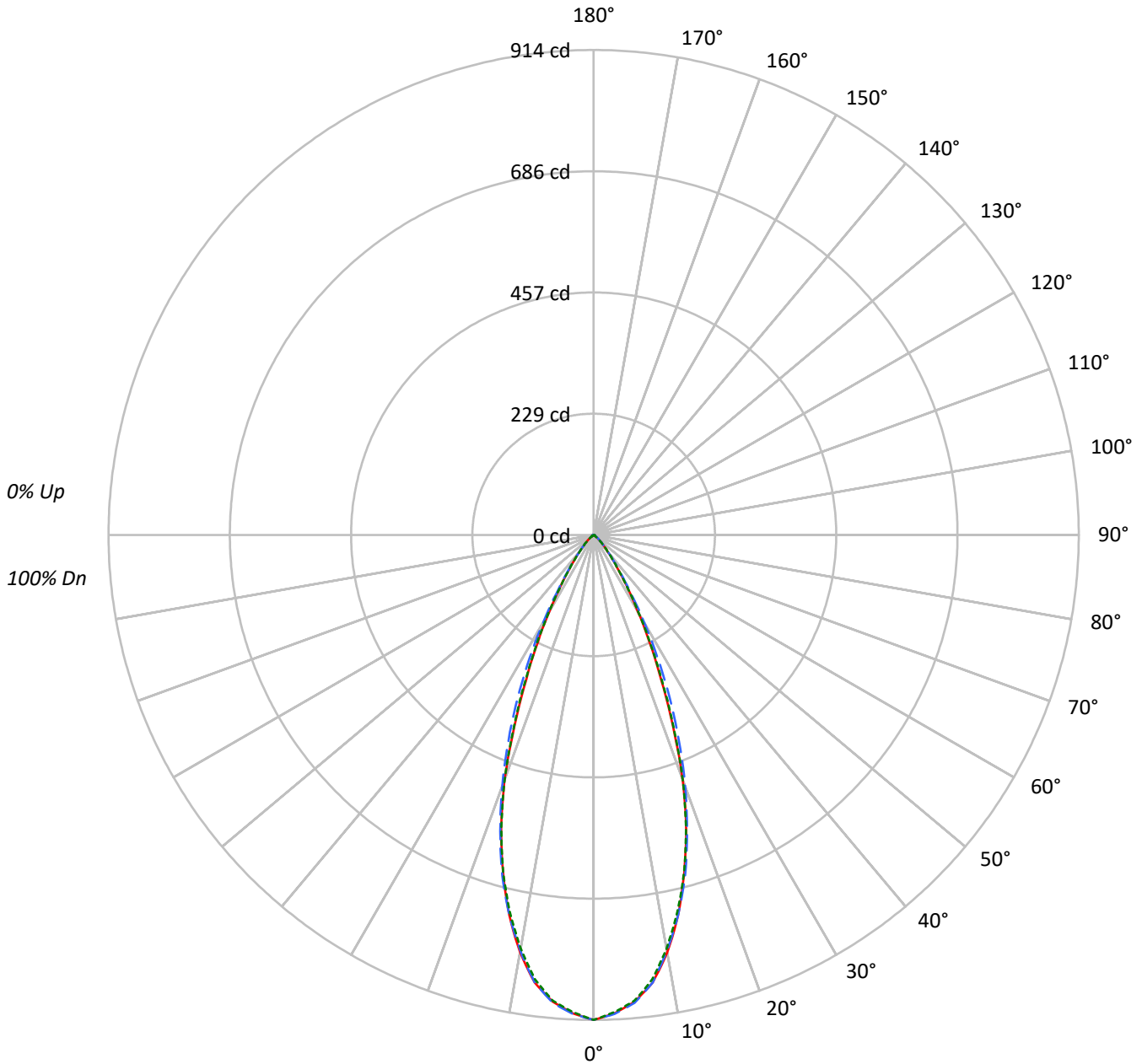
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	450933	450933	450933
5°	437352	438392	436461
10°	400327	398724	396319
15°	336748	339864	336186
20°	257525	264350	257105
25°	163527	184376	166684
30°	95080	107386	96790
35°	50291	53483	50411
40°	26534	27758	26534
45°	14861	15420	15001
50°	6908	8750	6908
55°	2494	4817	2752
60°	2861	2861	2861
65°	3152	3385	3152
70°	3895	3462	3895
75°	3622	3622	3622
80°	3694	3125	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	16.5
10°-20°	181.6	36.6
20°-30°	146.7	29.6
30°-40°	58.0	11.7
40°-50°	17.8	3.6
50°-60°	4.6	0.9
60°-70°	2.8	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°	409.9	82.7
0°-40°	467.9	94.4
0°-60°	490.3	98.9
0°-90°	495.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	883	885	885	883	881	82
15°	659	661	665	663	658	181
25°	300	315	339	321	306	140
35°	84	86	89	86	84	56
45°	21	22	22	22	22	17
55°	3	4	6	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°	914.0	914.0	914.0	914.0	914.0
2.5°	902.5	903.1	903.8	902.8	900.1
5°	883.1	884.7	885.2	883.4	881.3
7.5°	851.2	849.4	850.9	847.8	845.1
10°	799.1	796.7	795.9	791.1	791.1
12.5°	734.8	734.0	734.5	732.1	728.4
15°	659.3	661.1	665.4	662.7	658.2
17.5°	579.3	581.9	585.6	584.8	578.7
20°	490.5	498.2	503.5	498.4	489.7
22.5°	389.5	405.9	419.5	408.9	394.5
25°	300.4	314.8	338.7	320.6	306.2
27.5°	227.8	238.2	260.0	242.2	232.3
30°	166.9	173.3	188.5	176.8	169.9
32.5°	119.4	123.9	130.3	123.3	119.9
35°	83.5	85.9	88.8	86.1	83.7
37.5°	58.8	59.5	61.7	59.5	58.5
40°	41.2	41.5	43.1	41.7	41.2
42.5°	29.8	29.8	30.6	30.0	29.8
45°	21.3	21.5	22.1	21.8	21.5
47.5°	15.2	15.7	15.7	16.0	14.9
50°	9.0	11.2	11.4	11.2	9.0
52.5°	4.8	6.6	8.2	6.6	4.8
55°	2.9	4.0	5.6	4.0	3.2
57.5°	2.9	2.9	3.7	3.2	2.9
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.7	2.9	2.9	2.9	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.4	2.7	2.7
72.5°	2.4	2.4	2.1	2.4	2.4
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.1	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)