

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: P283838

Luminaire Tested: **LDA2B059030D010 EU2B05WFL559030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283838
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: LDA2B059030D010 EU2B05WFL559030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 591.6 lumens
Efficiency: N/A
Efficacy: 84.5 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

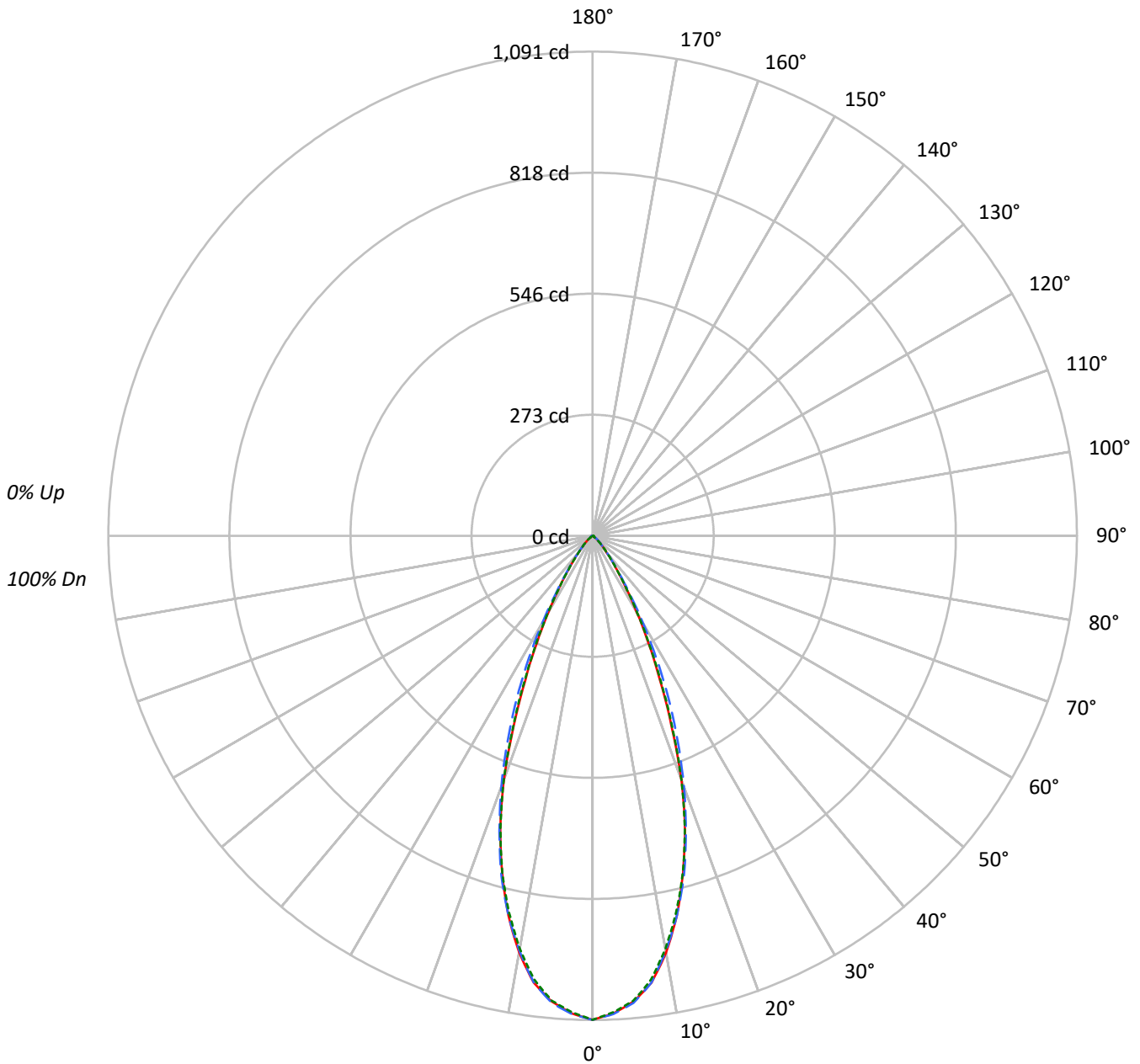
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	538110	538110	538110
5°	521940	523228	520851
10°	477778	475874	473018
15°	401870	405599	401206
20°	307297	315487	306824
25°	195155	220032	198965
30°	113481	128122	115475
35°	59987	63842	60168
40°	31687	33104	31687
45°	17722	18350	17931
50°	8289	10438	8289
55°	3011	5763	3269
60°	3454	3454	3454
65°	3736	4086	3736
70°	4616	4183	4616
75°	4194	4194	4194
80°	4546	3694	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	16.5
10°-20°	216.8	36.6
20°-30°	175.1	29.6
30°-40°	69.2	11.7
40°-50°	21.2	3.6
50°-60°	5.5	0.9
60°-70°	3.3	0.6
70°-80°	2.4	0.4
80°-90°	0.7	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°	489.2	82.7
0°-40°	558.4	94.4
0°-60°	585.1	98.9
0°-90°	591.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1054	1056	1056	1054	1052	98
15°	787	789	794	791	786	216
25°	358	376	404	383	366	167
35°	100	102	106	103	100	67
45°	25	26	26	26	26	21
55°	4	5	7	5	4	4
65°	3	4	4	4	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°	1090.7	1090.7	1090.7	1090.7	1090.7
2.5°	1077.1	1077.7	1078.7	1077.4	1074.2
5°	1053.9	1055.8	1056.5	1054.2	1051.7
7.5°	1015.9	1013.6	1015.5	1011.7	1008.6
10°	953.7	950.8	949.9	944.2	944.2
12.5°	876.9	875.9	876.6	873.7	869.3
15°	786.8	789.0	794.1	790.9	785.5
17.5°	691.3	694.5	698.9	698.0	690.7
20°	585.3	594.5	600.9	594.9	584.4
22.5°	464.8	484.5	500.6	487.9	470.8
25°	358.5	375.6	404.2	382.6	365.5
27.5°	271.9	284.3	310.3	289.0	277.3
30°	199.2	206.9	224.9	211.0	202.7
32.5°	142.4	147.8	155.5	147.2	143.1
35°	99.6	102.5	106.0	102.8	99.9
37.5°	70.1	71.1	73.6	71.1	69.8
40°	49.2	49.5	51.4	49.8	49.2
42.5°	35.5	35.5	36.5	35.9	35.5
45°	25.4	25.7	26.3	26.0	25.7
47.5°	18.1	18.7	18.7	19.0	17.8
50°	10.8	13.3	13.6	13.3	10.8
52.5°	5.7	7.9	9.8	7.9	5.7
55°	3.5	4.8	6.7	4.8	3.8
57.5°	3.5	3.5	4.4	3.8	3.5
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.5	3.5	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.5	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.3	1.6	1.6
82.5°	1.0	1.0	1.0	1.0	1.0
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)