

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: P283682

Luminaire Tested: **LDA2B159040D010 EU2B15FL409040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159040D010 EU2B15FL409040 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1083.4 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

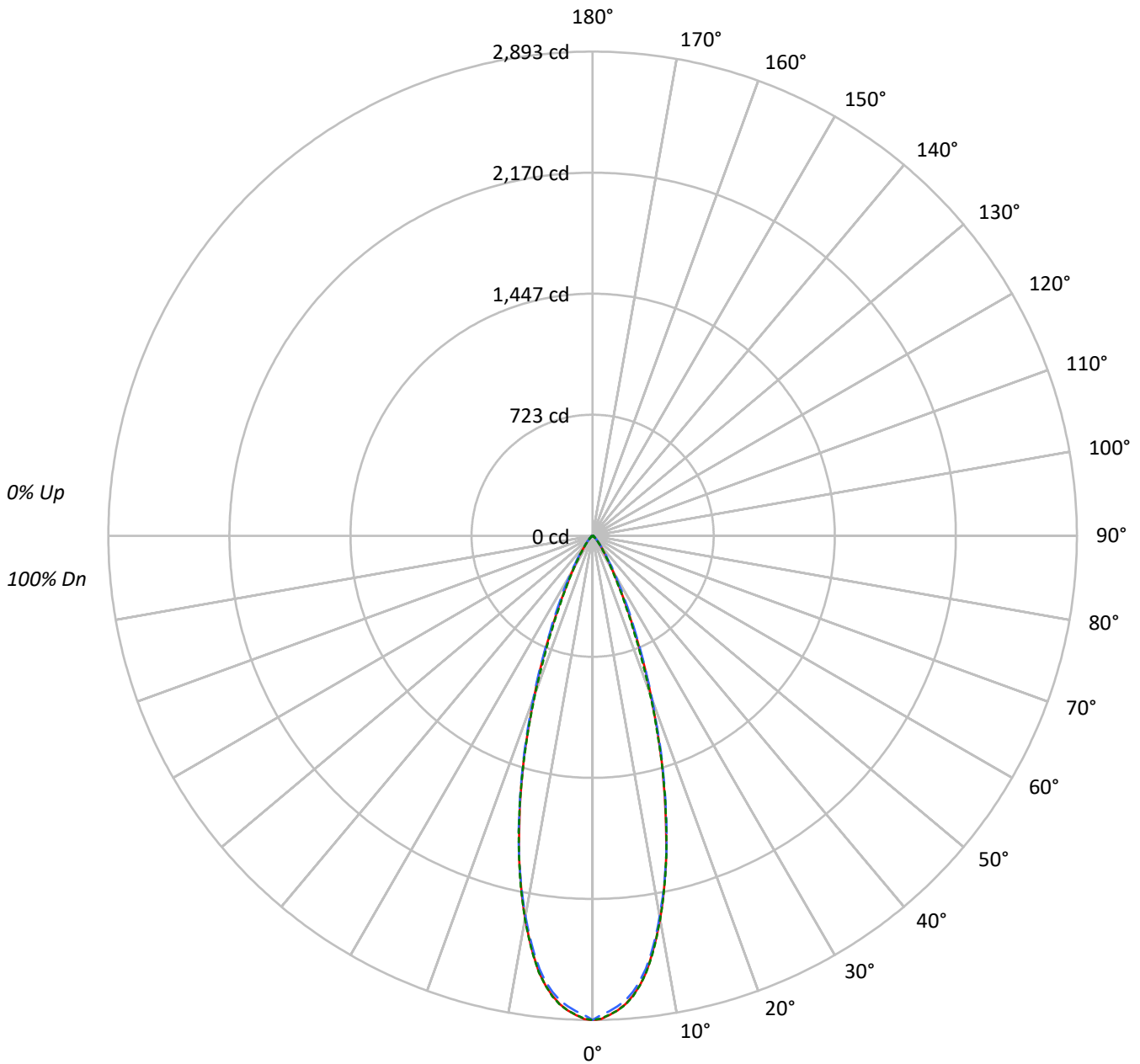
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1427444	1427444	1427444
5°	1366038	1355836	1368168
10°	1163810	1156495	1165062
15°	857780	863398	860589
20°	535473	545396	523660
25°	276592	296788	262710
30°	132623	151992	126413
35°	68480	75767	64083
40°	38385	40317	36388
45°	23304	23304	22467
50°	12127	14967	12127
55°	6279	9892	6795
60°	7203	7203	7203
65°	7822	7822	7822
70°	9665	8799	9665
75°	9340	9340	9340
80°	8523	8523	8523
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	23.0
10°-20°	457.1	42.2
20°-30°	247.8	22.9
30°-40°	79.6	7.3
40°-50°	27.1	2.5
50°-60°	9.5	0.9
60°-70°	6.9	0.6
70°-80°	5.0	0.5
80°-90°	1.4	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°	953.8	88.0
0°-40°	1033.4	95.4
0°-60°	1070.0	98.8
0°-90°	1083.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2893	2893	2893	2893	2893	
5°	2758	2741	2738	2765	2763	249
15°	1679	1693	1690	1698	1685	455
25°	508	531	545	508	483	244
35°	114	118	126	114	106	77
45°	33	34	33	33	32	27
55°	7	9	12	9	8	8
65°	7	7	7	7	7	7
75°	5	5	5	5	5	5
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°	2893.3	2893.3	2893.3	2893.3	2893.3
1°	2888.4	2867.7	2864.7	2891.4	2885.4
2°	2865.3	2845.9	2842.8	2869.6	2864.1
3°	2839.8	2822.1	2816.1	2844.0	2840.4
4°	2805.7	2789.3	2783.9	2811.8	2808.8
5°	2758.3	2741.3	2737.7	2765.0	2762.6
6°	2700.0	2686.0	2679.3	2706.7	2701.8
7°	2627.0	2614.3	2607.0	2627.0	2629.5
8°	2532.2	2526.1	2517.6	2537.7	2537.7
9°	2431.3	2425.8	2416.7	2435.0	2435.0
10°	2323.1	2319.5	2308.5	2325.6	2325.6
11°	2204.6	2202.8	2194.9	2208.8	2208.8
12°	2080.0	2084.2	2076.9	2089.1	2084.9
13°	1955.4	1953.6	1954.2	1963.3	1956.6
14°	1814.4	1825.3	1827.1	1832.6	1822.3
15°	1679.4	1693.4	1690.4	1698.3	1684.9
16°	1541.5	1557.3	1556.6	1558.5	1545.7
17°	1412.6	1421.7	1422.3	1420.5	1404.7
18°	1275.2	1288.0	1288.0	1284.9	1266.1
19°	1140.9	1150.6	1157.3	1150.6	1128.7
20°	1019.9	1026.6	1038.8	1021.8	997.4
21°	903.8	909.9	920.3	900.2	873.4
22°	792.6	800.5	810.2	787.1	759.2
23°	688.7	706.9	710.6	678.9	655.2
24°	593.2	613.9	620.0	587.8	562.8
25°	508.1	531.2	545.2	507.5	482.6
26°	434.6	457.1	474.1	436.4	412.7
27°	370.2	393.9	411.5	376.2	353.8
28°	314.9	338.0	356.2	323.4	302.1
29°	273.5	286.9	305.1	277.8	258.3
30°	232.8	247.4	266.8	238.9	221.9
32.5°	159.9	167.8	183.0	165.9	152.6
35°	113.7	118.5	125.8	114.3	106.4
37.5°	80.8	83.3	87.5	80.8	76.6
40°	59.6	60.8	62.6	59.0	56.5
42.5°	44.4	45.0	45.0	43.8	42.5
45°	33.4	34.0	33.4	33.4	32.2
47.5°	24.3	26.1	25.5	25.5	23.7
50°	15.8	19.5	19.5	18.8	15.8
52.5°	9.7	13.4	15.2	13.4	10.3
55°	7.3	9.1	11.5	9.1	7.9
57.5°	7.3	7.3	8.5	7.3	7.3
60°	7.3	7.3	7.3	7.3	7.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.1	6.7	6.7
72.5°	6.1	6.1	5.5	6.1	5.5
75°	4.9	4.9	4.9	4.9	4.9
77.5°	3.6	3.6	3.6	3.6	3.6
80°	3.0	3.0	3.0	3.0	3.0
82.5°	1.8	1.8	1.8	2.4	1.8
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.7	7.3	6.7	7.3	6.7



(END OF REPORT)