

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: P281699

Luminaire Tested: **LDA2B158030D010 EU2B15SP158030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158030D010 EU2B15SP158030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1439.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

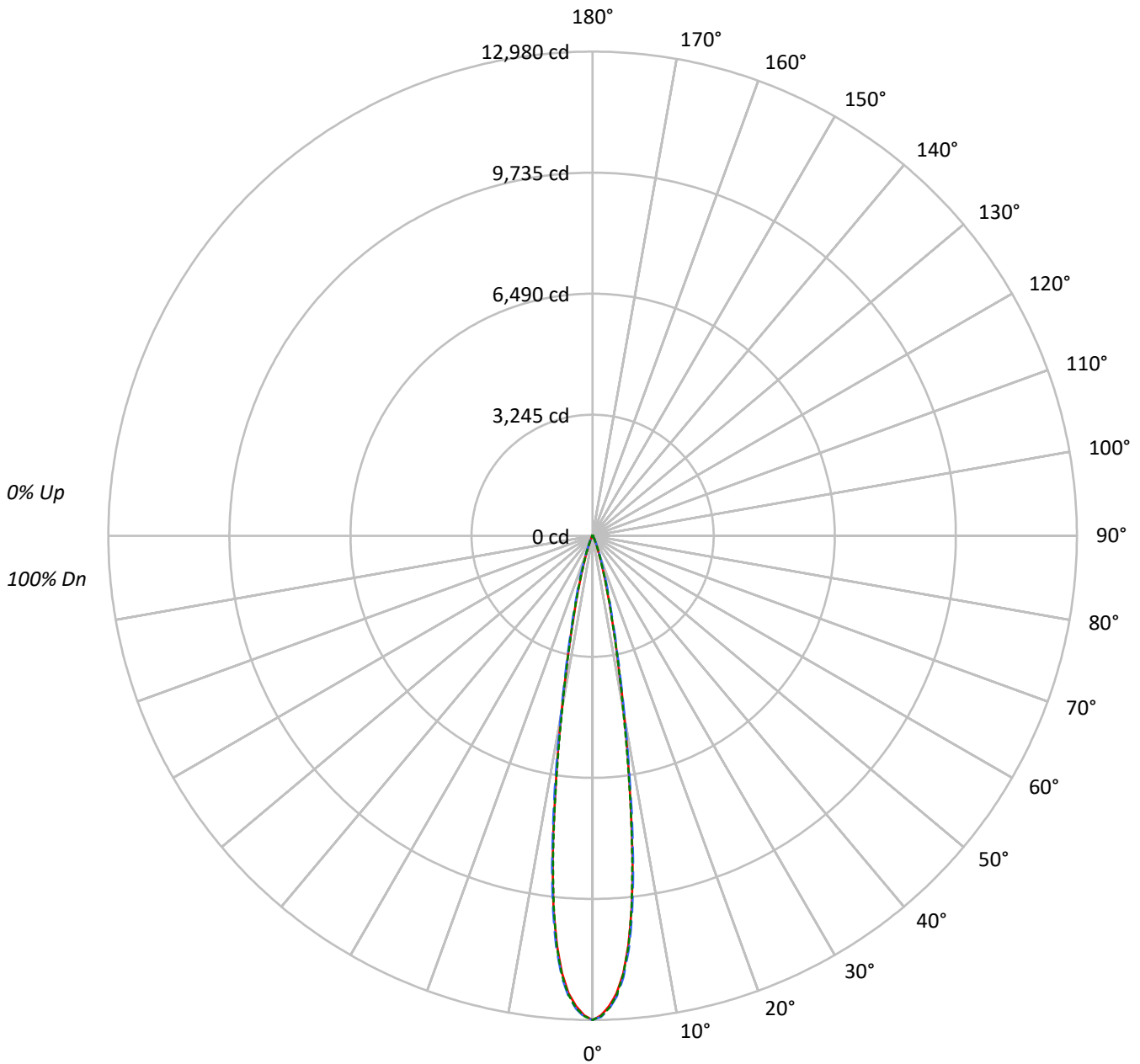
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6403737	6403737	6403737
5°	5452959	5509764	5463310
10°	2407424	2462481	2351165
15°	730497	837809	741938
20°	218568	291441	244241
25°	85139	83832	89494
30°	37941	34295	36118
35°	7709	6746	6746
40°	0	515	2061
45°	6698	5582	10047
50°	0	1842	6140
55°	0	0	2752
60°	0	789	3158
65°	0	0	1868
70°	0	4616	9232
75°	0	0	0
80°	0	0	0
85°	0	4529	18114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.4	58.4
10°-20°	480.6	33.4
20°-30°	91.2	6.3
30°-40°	16.6	1.2
40°-50°	4.3	0.3
50°-60°	3.2	0.2
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	1.0	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°	1413.2	98.2
0°-40°	1429.8	99.3
0°-60°	1437.3	99.8
0°-90°	1439.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12980	12980	12980	12980	12980	
5°	11011	11083	11125	11106	11032	836
15°	1430	1555	1640	1541	1453	455
25°	156	168	154	176	164	82
35°	13	16	11	14	11	18
45°	10	15	8	9	14	5
55°	0	1	0	1	3	1
65°	0	0	0	0	2	0
75°	0	0	0	0	0	0
85°	0	1	1	1	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12979.8	12979.8	12979.8	12979.8	12979.8
1°	12857.1	12870.7	12899.6	12929.3	12882.8
2°	12616.4	12649.3	12690.2	12717.5	12667.0
3°	12279.6	12325.3	12368.6	12374.2	12326.9
4°	11759.0	11815.1	11860.9	11855.2	11795.9
5°	11010.6	11082.8	11125.3	11106.1	11031.5
6°	10021.6	10091.4	10145.9	10090.6	9990.3
7°	8789.6	8869.8	8927.5	8832.9	8710.2
8°	7361.8	7474.1	7531.8	7399.5	7273.6
9°	6009.4	6087.2	6145.8	6001.4	5873.1
10°	4805.5	4948.2	4915.4	4803.9	4693.2
11°	3779.6	3908.7	3914.3	3838.9	3730.6
12°	2959.0	3095.4	3129.8	3072.1	2975.8
13°	2338.2	2440.0	2497.0	2437.6	2346.2
14°	1860.9	1951.5	2024.5	1947.5	1856.1
15°	1430.2	1555.3	1640.3	1540.9	1452.6
16°	1137.4	1240.9	1341.9	1228.8	1158.3
17°	873.5	965.7	1070.0	967.3	909.6
18°	691.4	764.4	879.1	773.2	722.7
19°	541.4	596.8	703.5	610.4	569.5
20°	416.3	477.3	555.1	491.7	465.2
22.5°	251.9	285.6	308.0	288.8	275.1
25°	156.4	168.4	154.0	175.7	164.4
26°	136.4	145.2	142.0	156.4	142.8
27°	109.1	120.3	111.5	122.7	118.7
28°	99.5	113.1	95.5	109.1	102.7
29°	69.8	75.4	68.2	73.0	73.0
30°	66.6	68.2	60.2	65.8	63.4
32.5°	52.1	48.9	40.1	42.5	40.9
35°	12.8	16.0	11.2	13.6	11.2
37.5°	19.3	17.6	20.9	20.1	19.3
40°	0.0	0.8	0.8	0.8	3.2
42.5°	14.4	8.8	8.0	5.6	9.6
45°	9.6	15.2	8.0	8.8	14.4
47.5°	0.0	0.8	0.0	1.6	1.6
50°	0.0	1.6	2.4	3.2	8.0
52.5°	1.6	9.6	4.8	8.8	12.8
55°	0.0	0.8	0.0	0.8	3.2
57.5°	3.2	1.6	3.2	3.2	14.4
60°	0.0	1.6	0.8	0.8	3.2
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.6
67.5°	0.0	0.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.8	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.8	1.6	2.4	1.6
85°	0.0	0.8	0.8	0.8	3.2
87.5°	0.0	1.6	2.4	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	2.4	3.2	0.0	6.4
72.5°	0.0	4.0	0.8	0.8	0.0



(END OF REPORT)