

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: P281663

Luminaire Tested: **LDA2B108040D010 EU2B10SP158040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281663
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: LDA2B108040D010 EU2B10SP158040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1138.6 lumens
Efficiency: N/A
Efficacy: 113.9 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

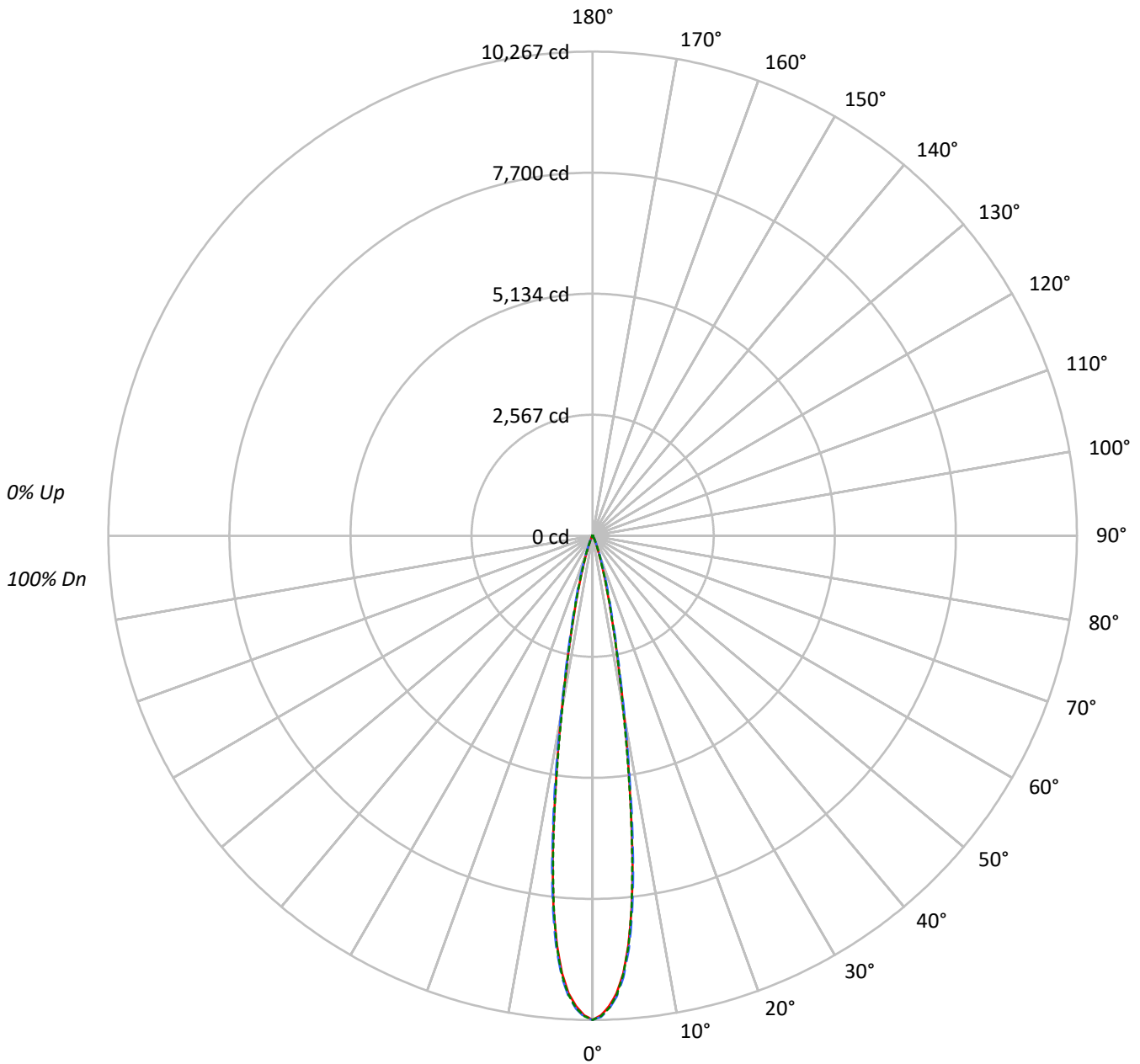
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5065148	5065148	5065148
5°	4313100	4358019	4321272
10°	1904147	1947732	1859661
15°	577778	662667	586870
20°	172891	230486	193209
25°	67338	66304	70822
30°	30022	27117	28541
35°	6143	5360	5360
40°	0	386	1610
45°	5303	4396	7954
50°	0	1458	4835
55°	0	0	2150
60°	0	592	2467
65°	0	0	1518
70°	0	3606	7357
75°	0	0	0
80°	0	0	0
85°	0	3396	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.5	58.5
10°-20°	380.1	33.4
20°-30°	72.2	6.3
30°-40°	13.1	1.2
40°-50°	3.4	0.3
50°-60°	2.6	0.2
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.8	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°	1117.8	98.2
0°-40°	1130.9	99.3
0°-60°	1136.8	99.8
0°-90°	1138.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10267	10267	10267	10267	10267	
5°	8709	8766	8800	8784	8726	661
15°	1131	1230	1297	1219	1149	360
25°	124	133	122	139	130	65
35°	10	13	9	11	9	14
45°	8	12	6	7	11	4
55°	0	1	0	1	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	1	1	1	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10266.6	10266.6	10266.6	10266.6	10266.6
1°	10169.5	10180.3	10203.1	10226.6	10189.8
2°	9979.2	10005.2	10037.5	10059.1	10019.1
3°	9712.7	9748.8	9783.1	9787.6	9750.1
4°	9300.9	9345.3	9381.5	9377.1	9330.1
5°	8709.0	8766.1	8799.7	8784.5	8725.5
6°	7926.7	7981.9	8025.1	7981.3	7902.0
7°	6952.2	7015.7	7061.3	6986.5	6889.4
8°	5822.9	5911.7	5957.4	5852.7	5753.1
9°	4753.2	4814.8	4861.1	4746.9	4645.4
10°	3800.9	3913.9	3887.9	3799.7	3712.1
11°	2989.5	3091.6	3096.1	3036.4	2950.8
12°	2340.5	2448.3	2475.6	2429.9	2353.8
13°	1849.4	1930.0	1975.0	1928.1	1855.7
14°	1471.9	1543.6	1601.3	1540.4	1468.1
15°	1131.2	1230.2	1297.4	1218.8	1149.0
16°	899.6	981.5	1061.4	972.0	916.1
17°	690.9	763.9	846.3	765.1	719.5
18°	546.9	604.6	695.3	611.6	571.6
19°	428.2	472.0	556.4	482.8	450.5
20°	329.3	377.5	439.0	388.9	368.0
22.5°	199.2	225.9	243.6	228.4	217.6
25°	123.7	133.2	121.8	138.9	130.1
26°	107.9	114.8	112.3	123.7	112.9
27°	86.3	95.2	88.2	97.1	93.9
28°	78.7	89.5	75.5	86.3	81.2
29°	55.2	59.6	53.9	57.7	57.7
30°	52.7	53.9	47.6	52.0	50.1
32.5°	41.2	38.7	31.7	33.6	32.4
35°	10.2	12.7	8.9	10.8	8.9
37.5°	15.2	14.0	16.5	15.9	15.2
40°	0.0	0.6	0.6	0.6	2.5
42.5°	11.4	7.0	6.3	4.4	7.6
45°	7.6	12.1	6.3	7.0	11.4
47.5°	0.0	0.6	0.0	1.3	1.3
50°	0.0	1.3	1.9	2.5	6.3
52.5°	1.3	7.6	3.8	7.0	10.2
55°	0.0	0.6	0.0	0.6	2.5
57.5°	2.5	1.3	2.5	2.5	11.4
60°	0.0	1.3	0.6	0.6	2.5
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.3
67.5°	0.0	0.6	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	0.6	0.0	0.0
80°	0.0	0.6	0.0	0.0	0.0
82.5°	0.0	0.6	1.3	1.9	1.3
85°	0.0	0.6	0.6	0.6	2.5
87.5°	0.0	1.3	1.9	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.9	2.5	0.0	5.1
72.5°	0.0	3.2	0.6	0.6	0.0



(END OF REPORT)