

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: P281778

Luminaire Tested: **LDA2B159727D010 EU2B15SP159727 2LBALSQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159727D010 EU2B15SP159727 2LBALSQC1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim w/lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.4 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.31 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

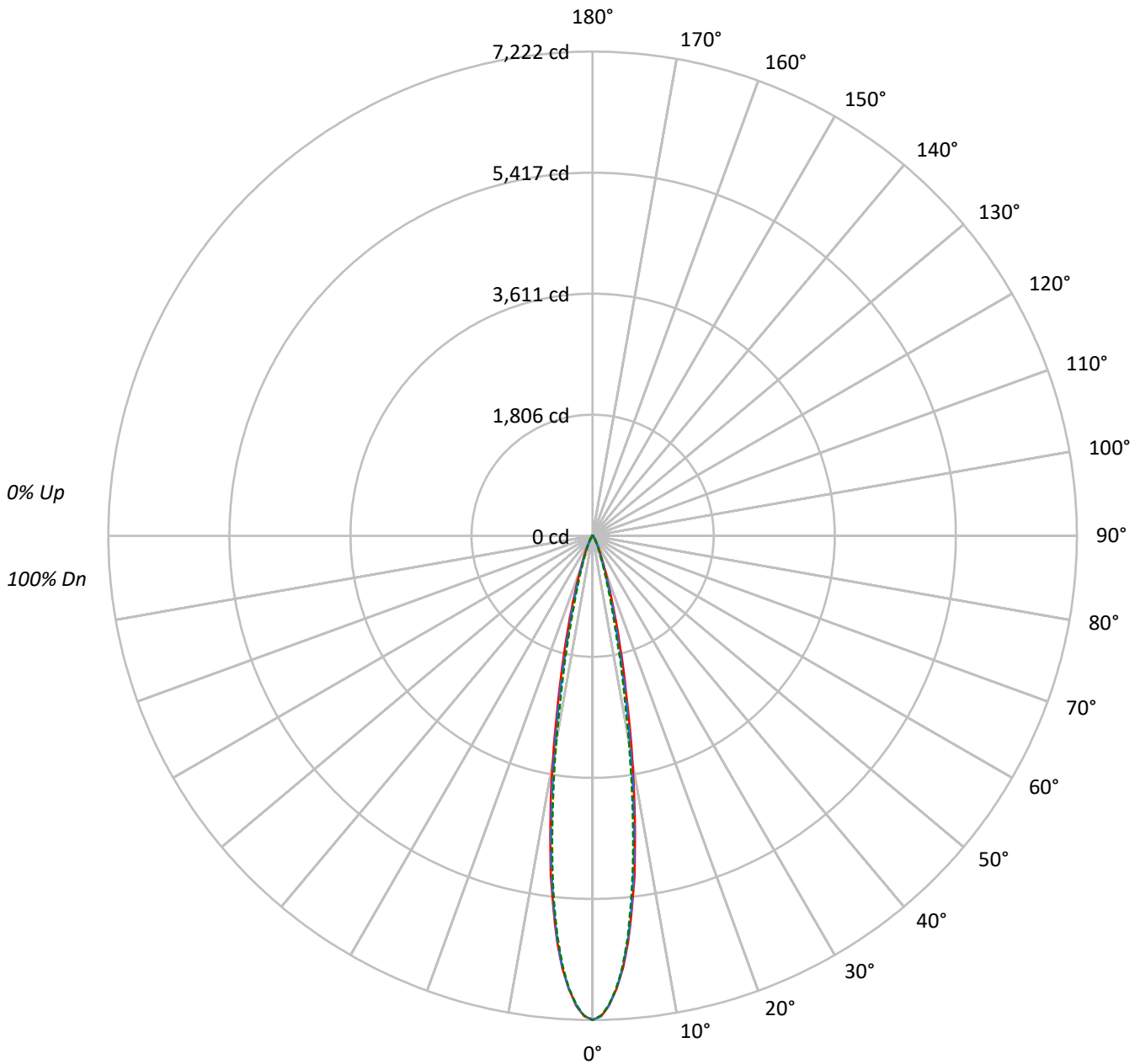
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	115	113	111	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97																			
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95																			
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92																			
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90																			
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	93	90	89	88																			
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86																			
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84																			
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82																			
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80																			
10	92	86	83	80	91	86	82	80	85	82	80	85	82	80	84	81	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3563306	3563306	3563306
5°	3010652	2994557	2972469
10°	1713627	1638181	1554869
15°	709607	628548	553721
20°	269968	236419	216415
25°	119216	114534	101851
30°	55146	60956	48537
35°	29030	34210	27163
40°	12752	14684	8501
45°	4954	3907	5652
50°	2303	2686	3914
55°	0	1720	0
60°	0	0	987
65°	0	0	0
70°	0	721	0
75°	0	0	0
80°	2841	0	0
85°	28870	26039	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	48.2
10°-20°	369.2	36.9
20°-30°	102.7	10.3
30°-40°	33.4	3.3
40°-50°	7.3	0.7
50°-60°	2.2	0.2
60°-70°	1.3	0.1
70°-80°	0.8	0.1
80°-90°	1.6	0.2
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°	954.8	95.3
0°-40°	988.1	98.7
0°-60°	997.7	99.6
0°-90°	1001.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7222	7222	7222	7222	7222	
5°	6079	6034	6047	6002	6002	491
15°	1389	1341	1231	1136	1084	406
25°	219	222	210	198	187	110
35°	48	52	57	43	45	32
45°	7	10	6	6	8	7
55°	0	3	2	1	0	2
65°	0	2	0	0	0	1
75°	0	0	0	1	0	0
85°	5	2	5	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7222.5	7222.5	7222.5	7222.5	7222.5
1°	7167.2	7140.3	7166.2	7151.0	7159.6
2°	7011.6	6978.1	7005.0	6983.7	7001.4
3°	6769.2	6743.3	6767.2	6740.3	6754.5
4°	6465.5	6427.9	6451.8	6415.8	6424.4
5°	6079.1	6034.5	6046.6	6001.5	6002.0
6°	5592.3	5561.4	5568.5	5498.0	5492.9
7°	5116.2	5043.2	5035.6	4954.9	4939.2
8°	4538.1	4471.7	4449.9	4355.1	4321.6
9°	3983.9	3901.3	3856.7	3746.6	3707.6
10°	3420.6	3336.9	3270.0	3145.8	3103.7
11°	2899.3	2823.8	2740.6	2607.8	2566.7
12°	2415.6	2356.3	2265.0	2136.7	2093.6
13°	2020.6	1952.2	1854.3	1735.1	1698.1
14°	1678.4	1604.8	1507.0	1405.0	1333.0
15°	1389.3	1341.2	1230.6	1135.8	1084.1
16°	1135.3	1094.2	998.9	916.8	880.2
17°	931.0	898.0	816.9	752.5	722.0
18°	768.2	727.1	663.2	621.1	597.3
19°	623.2	591.2	544.6	512.1	488.3
20°	514.2	487.8	450.3	421.4	412.2
22.5°	332.1	327.6	303.2	287.5	279.9
25°	219.0	221.6	210.4	198.3	187.1
26°	187.1	188.6	178.5	171.4	157.2
27°	160.2	160.7	160.7	147.6	133.9
28°	130.8	136.4	131.3	125.2	112.1
29°	112.1	119.2	116.6	110.5	97.9
30°	96.8	101.9	107.0	97.4	85.2
32.5°	67.9	72.5	78.1	73.0	62.9
35°	48.2	52.2	56.8	43.1	45.1
37.5°	33.0	40.1	38.5	35.0	29.9
40°	19.8	20.8	22.8	24.3	13.2
42.5°	14.2	16.7	15.2	17.2	6.1
45°	7.1	10.1	5.6	5.6	8.1
47.5°	5.1	8.6	3.0	3.0	1.0
50°	3.0	6.6	3.5	1.5	5.1
52.5°	5.1	6.1	4.1	4.6	1.0
55°	0.0	3.0	2.0	1.0	0.0
57.5°	2.0	3.5	2.0	1.0	2.0
60°	0.0	0.0	0.0	0.5	1.0
62.5°	0.0	1.0	0.0	1.5	2.0
65°	0.0	2.0	0.0	0.0	0.0
67.5°	3.0	3.5	2.0	4.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	1.0	0.0
77.5°	0.0	5.1	1.5	1.5	2.0
80°	1.0	0.0	0.0	0.5	0.0
82.5°	0.0	4.1	0.5	2.0	3.0
85°	5.1	2.5	4.6	2.5	2.0
87.5°	0.0	0.5	1.0	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.5	0.5	0.0
72.5°	1.0	0.0	0.0	0.0	0.0



(END OF REPORT)