

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: P281732

Luminaire Tested: **LDA2B159730D010 EU2B15SP159730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281732
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: LDA2B159730D010 EU2B15SP159730 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: 1065.9 lumens
Efficiency: N/A
Efficacy: 75.6 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

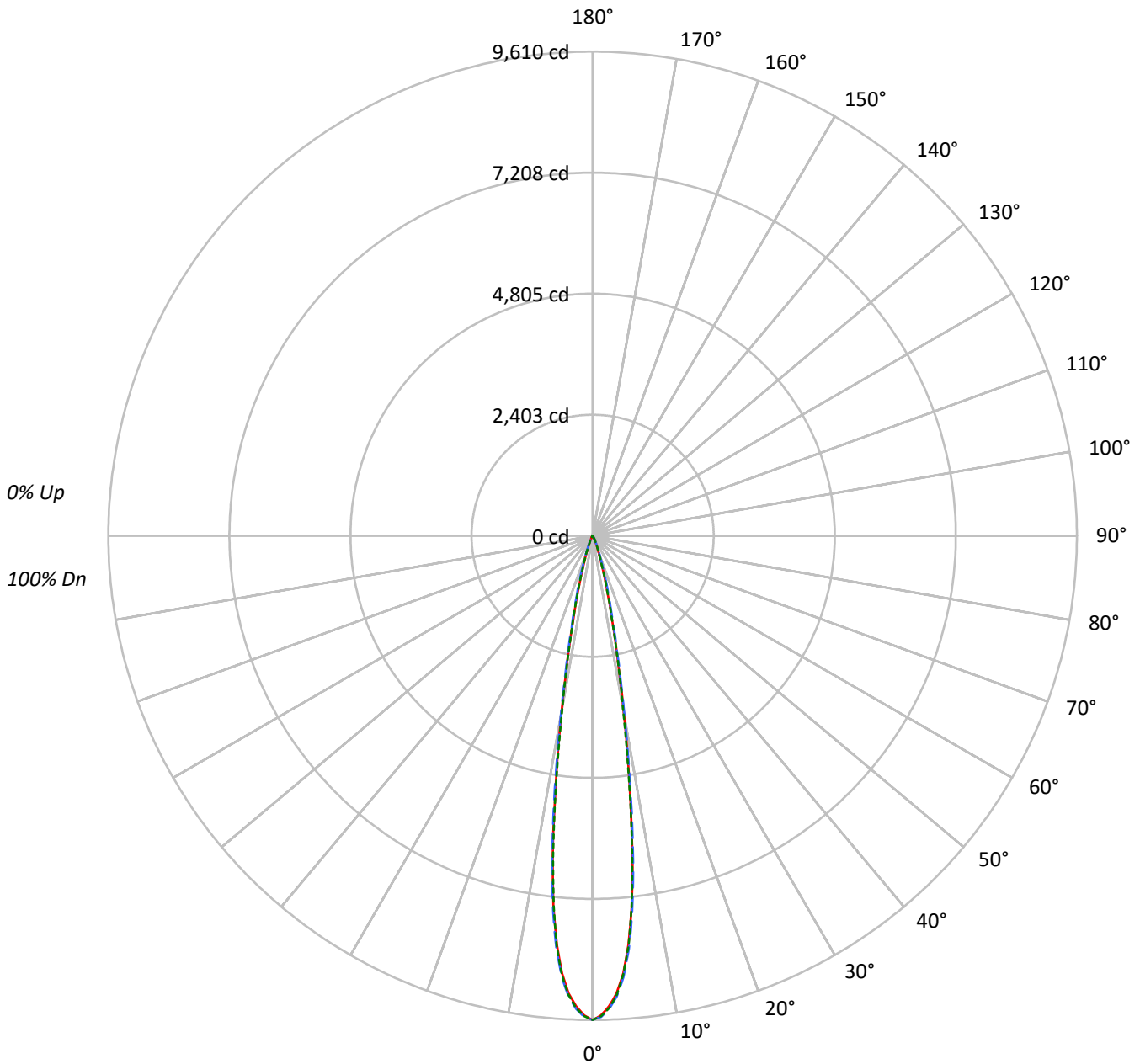
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4741157	4741157	4741157
5°	4037248	4079295	4044875
10°	1782361	1823140	1740730
15°	540850	620274	549329
20°	161813	215785	180818
25°	63037	62058	66249
30°	28085	25351	26718
35°	5722	4999	4999
40°	0	386	1546
45°	4954	4117	7466
50°	0	1382	4528
55°	0	0	2064
60°	0	592	2368
65°	0	0	1401
70°	0	3462	6924
75°	0	0	0
80°	0	0	0
85°	0	3396	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.0	58.4
10°-20°	355.8	33.4
20°-30°	67.5	6.3
30°-40°	12.3	1.2
40°-50°	3.2	0.3
50°-60°	2.4	0.2
60°-70°	0.4	0.0
70°-80°	0.5	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°	1046.3	98.2
0°-40°	1058.6	99.3
0°-60°	1064.2	99.8
0°-90°	1065.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9610	9610	9610	9610	9610	
5°	8152	8205	8237	8223	8167	619
15°	1059	1152	1214	1141	1076	337
25°	116	125	114	130	122	61
35°	10	12	8	10	8	13
45°	7	11	6	6	11	3
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°	9609.9	9609.9	9609.9	9609.9	9609.9
1°	9519.0	9529.1	9550.5	9572.5	9538.0
2°	9340.9	9365.2	9395.5	9415.7	9378.3
3°	9091.4	9125.3	9157.4	9161.5	9126.5
4°	8706.0	8747.6	8781.4	8777.3	8733.3
5°	8152.0	8205.4	8236.9	8222.6	8167.4
6°	7419.7	7471.4	7511.8	7470.8	7396.6
7°	6507.5	6566.9	6609.7	6539.6	6448.8
8°	5450.5	5533.6	5576.4	5478.4	5385.1
9°	4449.2	4506.8	4550.2	4443.3	4348.3
10°	3557.8	3663.5	3639.2	3556.6	3474.7
11°	2798.3	2893.9	2898.1	2842.2	2762.1
12°	2190.8	2291.7	2317.3	2274.5	2203.2
13°	1731.1	1806.5	1848.7	1804.7	1737.0
14°	1377.8	1444.9	1498.9	1441.9	1374.2
15°	1058.9	1151.5	1214.4	1140.8	1075.5
16°	842.1	918.7	993.5	909.8	857.5
17°	646.7	715.0	792.2	716.2	673.4
18°	511.9	566.0	650.9	572.5	535.1
19°	400.9	441.8	520.8	451.9	421.6
20°	308.2	353.3	411.0	364.0	344.4
22.5°	186.5	211.4	228.0	213.8	203.7
25°	115.8	124.7	114.0	130.1	121.7
26°	101.0	107.5	105.1	115.8	105.7
27°	80.8	89.1	82.5	90.9	87.9
28°	73.6	83.7	70.7	80.8	76.0
29°	51.7	55.8	50.5	54.0	54.0
30°	49.3	50.5	44.5	48.7	46.9
32.5°	38.6	36.2	29.7	31.5	30.3
35°	9.5	11.9	8.3	10.1	8.3
37.5°	14.3	13.1	15.4	14.8	14.3
40°	0.0	0.6	0.6	0.6	2.4
42.5°	10.7	6.5	5.9	4.2	7.1
45°	7.1	11.3	5.9	6.5	10.7
47.5°	0.0	0.6	0.0	1.2	1.2
50°	0.0	1.2	1.8	2.4	5.9
52.5°	1.2	7.1	3.6	6.5	9.5
55°	0.0	0.6	0.0	0.6	2.4
57.5°	2.4	1.2	2.4	2.4	10.7
60°	0.0	1.2	0.6	0.6	2.4
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.2
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	1.2	1.8	1.2
85°	0.0	0.6	0.6	0.6	2.4
87.5°	0.0	1.2	1.8	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.8	2.4	0.0	4.8
72.5°	0.0	3.0	0.6	0.6	0.0



(END OF REPORT)