

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: P283998

Luminaire Tested: **LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 858.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

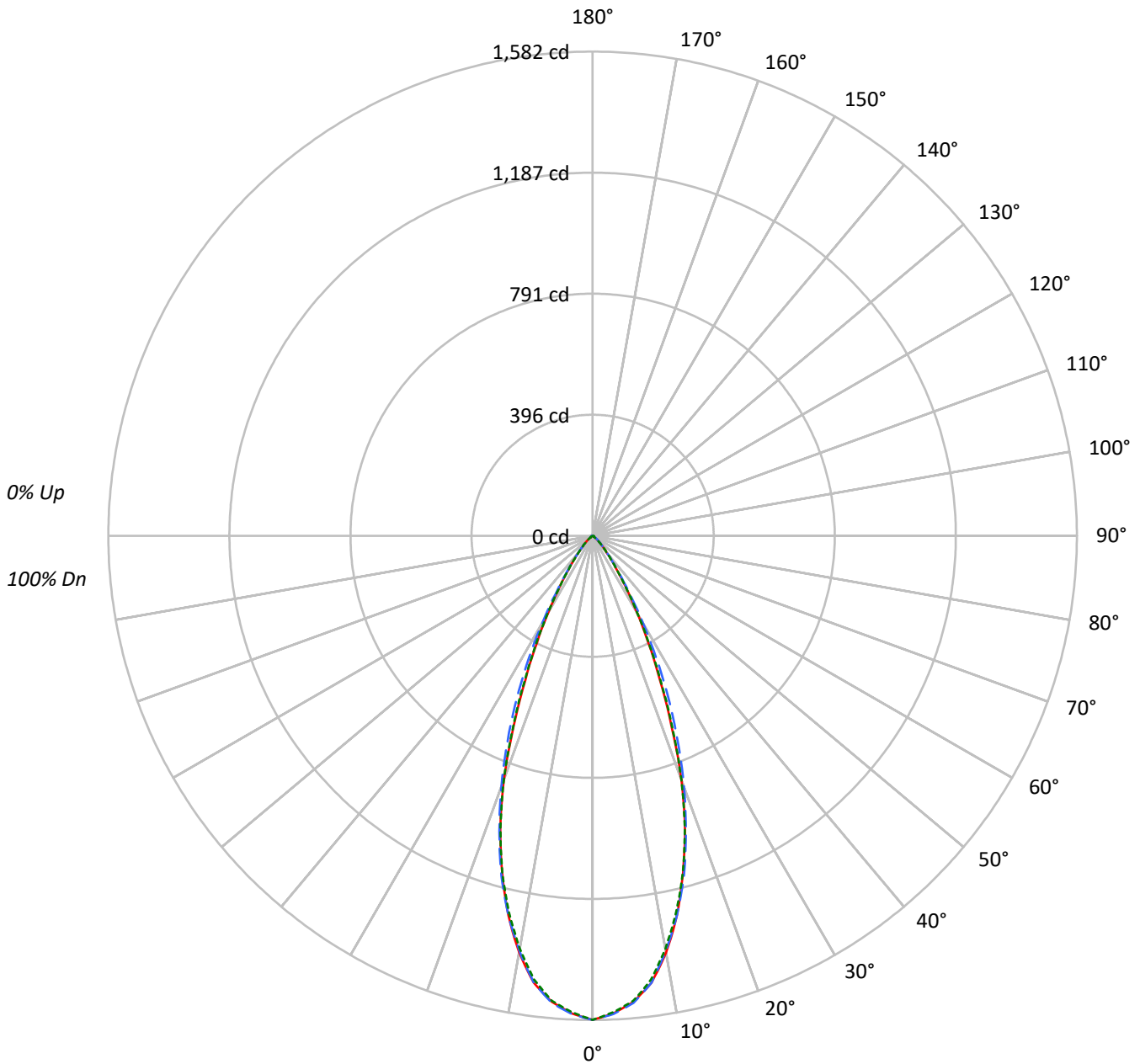
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	780449	780449	780449
5°	756984	758816	755399
10°	692895	690140	685982
15°	582835	588249	581864
20°	445693	457506	444958
25°	283015	319106	288513
30°	164582	185831	167487
35°	87030	92571	87271
40°	45920	47981	45920
45°	25676	26653	26025
50°	11974	15197	11974
55°	4387	8343	4731
60°	5032	5032	5032
65°	5370	5954	5370
70°	6635	5914	6635
75°	6100	6100	6100
80°	6535	5114	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	16.5
10°-20°	314.4	36.6
20°-30°	253.9	29.6
30°-40°	100.4	11.7
40°-50°	30.8	3.6
50°-60°	7.9	0.9
60°-70°	4.8	0.6
70°-80°	3.5	0.4
80°-90°	1.1	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°	709.5	82.7
0°-40°	809.9	94.4
0°-60°	848.6	98.9
0°-90°	858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1528	1531	1532	1529	1525	141
15°	1141	1144	1152	1147	1139	313
25°	520	545	586	555	530	242
35°	144	149	154	149	145	97
45°	37	37	38	38	37	30
55°	5	7	10	7	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
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°	1581.9	1581.9	1581.9	1581.9	1581.9
2.5°	1562.1	1563.0	1564.4	1562.5	1557.9
5°	1528.5	1531.2	1532.2	1528.9	1525.3
7.5°	1473.3	1470.0	1472.8	1467.3	1462.7
10°	1383.1	1378.9	1377.6	1369.3	1369.3
12.5°	1271.7	1270.4	1271.3	1267.1	1260.7
15°	1141.1	1144.3	1151.7	1147.1	1139.2
17.5°	1002.6	1007.2	1013.6	1012.2	1001.7
20°	848.9	862.2	871.4	862.7	847.5
22.5°	674.1	702.6	726.1	707.6	682.8
25°	519.9	544.8	586.2	554.9	530.0
27.5°	394.3	412.3	450.0	419.2	402.1
30°	288.9	300.0	326.2	306.0	294.0
32.5°	206.6	214.4	225.5	213.5	207.5
35°	144.5	148.6	153.7	149.1	144.9
37.5°	101.7	103.1	106.7	103.1	101.2
40°	71.3	71.8	74.5	72.2	71.3
42.5°	51.5	51.5	52.9	52.0	51.5
45°	36.8	37.3	38.2	37.7	37.3
47.5°	26.2	27.1	27.1	27.6	25.8
50°	15.6	19.3	19.8	19.3	15.6
52.5°	8.3	11.5	14.3	11.5	8.3
55°	5.1	6.9	9.7	6.9	5.5
57.5°	5.1	5.1	6.4	5.5	5.1
60°	5.1	5.1	5.1	5.1	5.1
62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.6	5.1	5.1	5.1	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.1	4.6	4.6
72.5°	4.1	4.1	3.7	4.1	4.1
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	1.8	2.3	2.3
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)