

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: P284033

Luminaire Tested: **LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284033
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: LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 864.5 lumens
Efficiency: N/A
Efficacy: 61.3 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

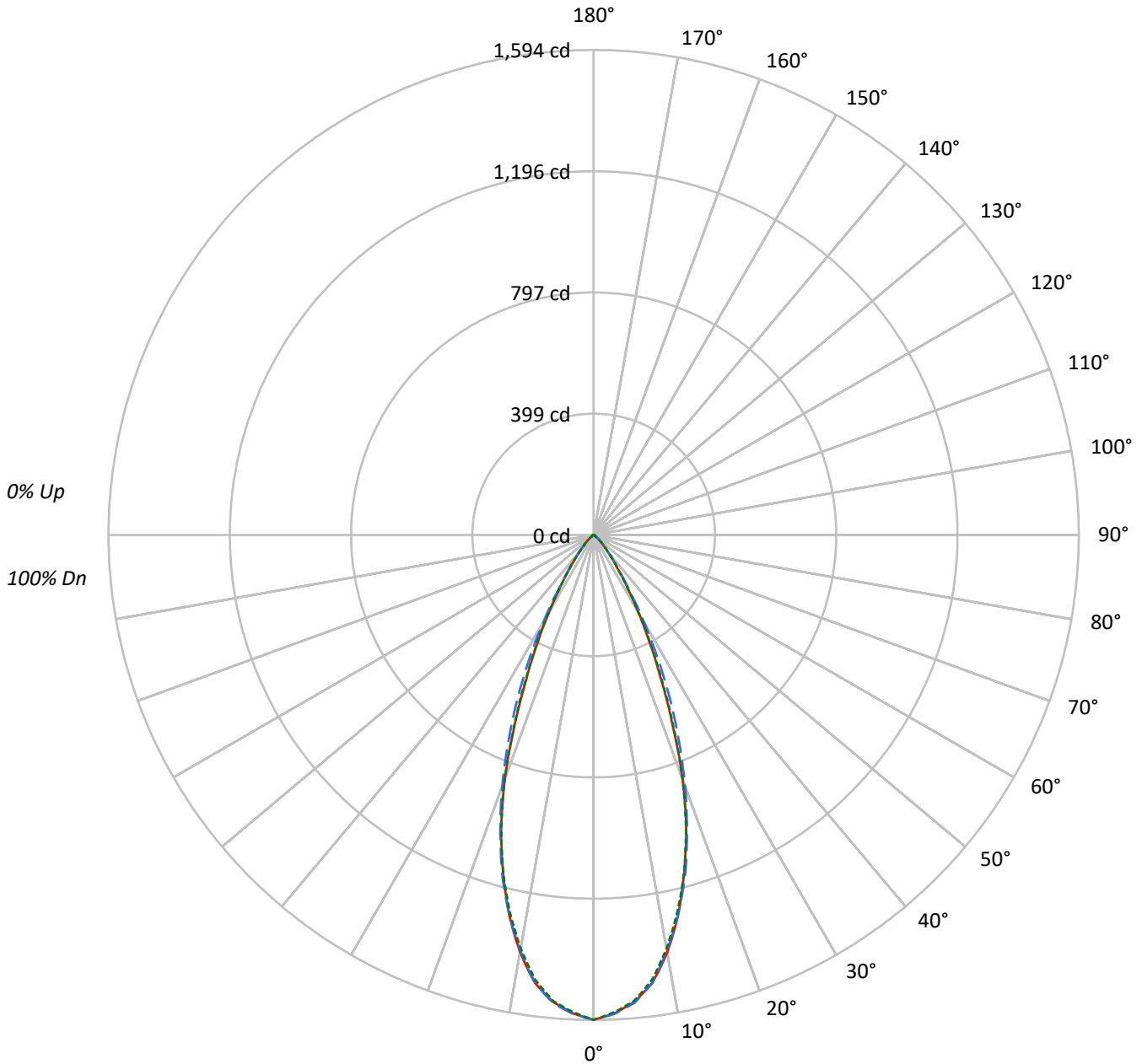
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	786320	786320	786320
5°	762679	764512	761095
10°	698105	695350	691142
15°	587227	592641	586257
20°	449054	460972	448319
25°	285138	321502	290691
30°	165835	187255	168741
35°	87692	93233	87933
40°	46306	48367	46306
45°	25885	26862	26234
50°	12127	15274	12127
55°	4387	8343	4817
60°	5032	5032	5032
65°	5370	5954	5370
70°	6635	6058	6635
75°	6100	6100	6100
80°	6535	5398	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	16.5
10°-20°	316.8	36.6
20°-30°	255.8	29.6
30°-40°	101.1	11.7
40°-50°	31.1	3.6
50°-60°	8.0	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°	714.9	82.7
0°-40°	816.0	94.4
0°-60°	855.0	98.9
0°-90°	864.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1540	1543	1544	1540	1537	143
15°	1150	1153	1160	1156	1148	316
25°	524	549	591	559	534	244
35°	146	150	155	150	146	98
45°	37	38	38	38	38	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°	1593.8	1593.8	1593.8	1593.8	1593.8
2.5°	1573.9	1574.8	1576.2	1574.3	1569.7
5°	1540.0	1542.8	1543.7	1540.5	1536.8
7.5°	1484.4	1481.1	1483.9	1478.4	1473.7
10°	1393.5	1389.4	1388.0	1379.6	1379.6
12.5°	1281.3	1279.9	1280.9	1276.7	1270.2
15°	1149.7	1152.9	1160.3	1155.7	1147.8
17.5°	1010.1	1014.8	1021.3	1019.9	1009.2
20°	855.3	868.7	878.0	869.2	853.9
22.5°	679.1	707.9	731.5	713.0	688.0
25°	523.8	548.9	590.6	559.1	534.0
27.5°	397.3	415.4	453.4	422.3	405.2
30°	291.1	302.3	328.7	308.3	296.2
32.5°	208.1	216.0	227.2	215.1	209.1
35°	145.6	149.7	154.8	150.2	146.0
37.5°	102.5	103.8	107.6	103.8	102.0
40°	71.9	72.3	75.1	72.8	71.9
42.5°	51.9	51.9	53.3	52.4	51.9
45°	37.1	37.6	38.5	38.0	37.6
47.5°	26.4	27.4	27.4	27.8	26.0
50°	15.8	19.5	19.9	19.5	15.8
52.5°	8.3	11.6	14.4	11.6	8.3
55°	5.1	7.0	9.7	7.0	5.6
57.5°	5.1	5.1	6.5	5.6	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	4.2	4.6	4.6
72.5°	4.2	4.2	3.7	4.2	4.2
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	1.9	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)