

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: P283985

Luminaire Tested: **LDA2B158040D010 EU2B15WFL558040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283985
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: LDA2B158040D010 EU2B15WFL558040 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: 1307.8 lumens
Efficiency: N/A
Efficacy: 92.8 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

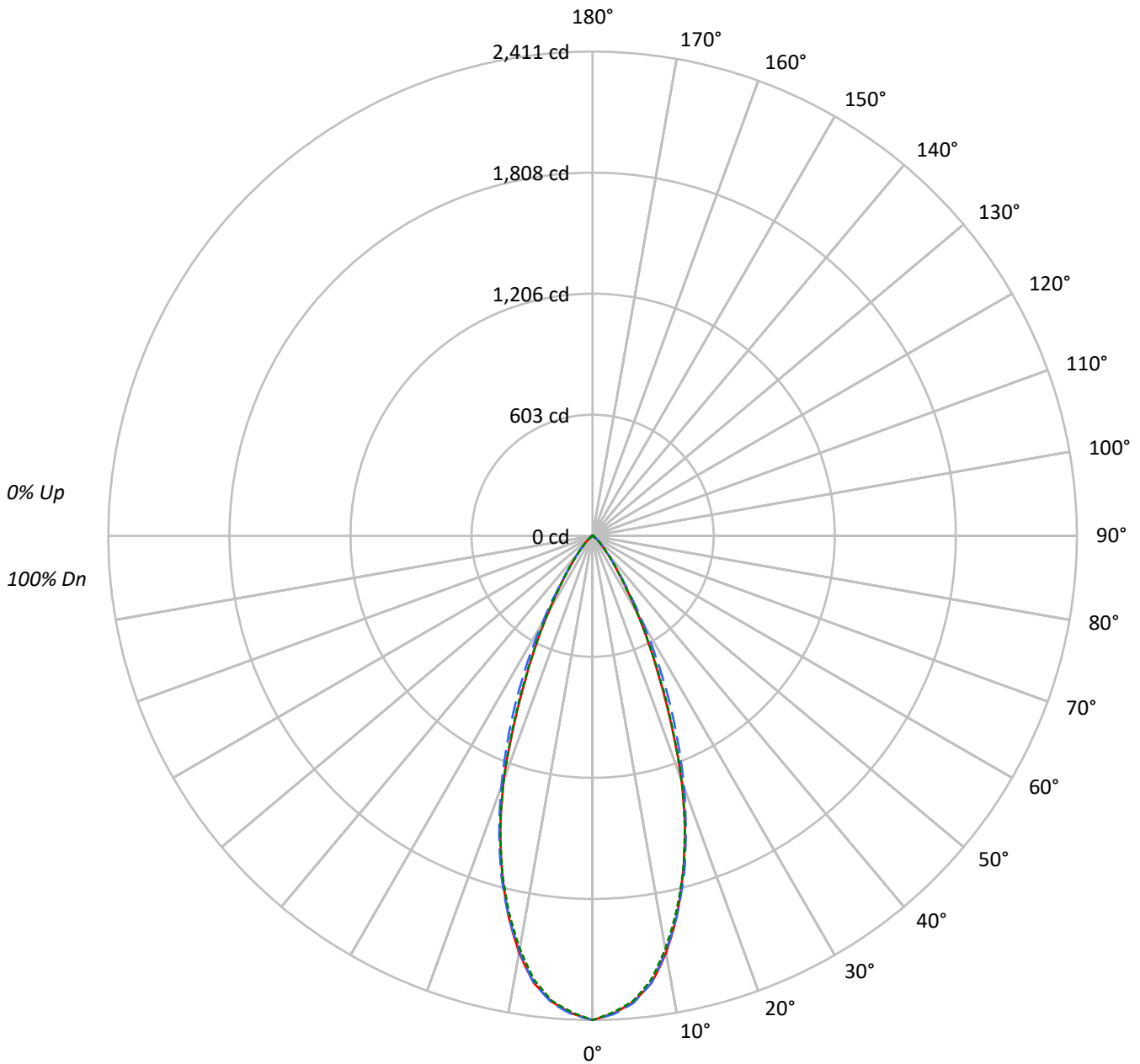
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1189643	1189643	1189643
5°	1153874	1156648	1151448
10°	1056201	1051993	1045630
15°	888426	896649	886996
20°	679382	697443	678279
25°	431409	486390	439847
30°	250946	283304	255333
35°	132623	141115	133044
40°	70007	73163	70007
45°	39142	40607	39630
50°	18267	23180	18267
55°	6623	12644	7225
60°	7598	7598	7598
65°	8172	8989	8172
70°	10097	9088	10097
75°	9340	9340	9340
80°	9944	7955	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	16.5
10°-20°	479.2	36.6
20°-30°	387.0	29.6
30°-40°	153.0	11.7
40°-50°	47.0	3.6
50°-60°	12.1	0.9
60°-70°	7.3	0.6
70°-80°	5.4	0.4
80°-90°	1.6	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°	1081.5	82.7
0°-40°	1234.5	94.4
0°-60°	1293.6	98.9
0°-90°	1307.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2411	2411	2411	2411	2411	
5°	2330	2334	2336	2331	2325	216
15°	1739	1744	1756	1748	1737	478
25°	792	830	894	846	808	369
35°	220	226	234	227	221	147
45°	56	57	58	58	57	46
55°	8	10	15	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2411.3	2411.3	2411.3	2411.3	2411.3
2.5°	2381.1	2382.5	2384.6	2381.8	2374.8
5°	2329.9	2334.1	2335.5	2330.6	2325.0
7.5°	2245.7	2240.8	2245.0	2236.6	2229.6
10°	2108.3	2102.0	2099.9	2087.2	2087.2
12.5°	1938.5	1936.4	1937.8	1931.5	1921.7
15°	1739.4	1744.3	1755.5	1748.5	1736.6
17.5°	1528.2	1535.3	1545.1	1543.0	1526.8
20°	1294.0	1314.3	1328.4	1315.0	1291.9
22.5°	1027.5	1071.0	1106.7	1078.7	1040.8
25°	792.5	830.4	893.5	845.8	808.0
27.5°	601.1	628.4	685.9	638.9	613.0
30°	440.5	457.3	497.3	466.4	448.2
32.5°	314.9	326.8	343.7	325.4	316.3
35°	220.2	226.5	234.3	227.2	220.9
37.5°	155.0	157.1	162.7	157.1	154.3
40°	108.7	109.4	113.6	110.1	108.7
42.5°	78.6	78.6	80.7	79.3	78.6
45°	56.1	56.8	58.2	57.5	56.8
47.5°	40.0	41.4	41.4	42.1	39.3
50°	23.8	29.5	30.2	29.5	23.8
52.5°	12.6	17.5	21.7	17.5	12.6
55°	7.7	10.5	14.7	10.5	8.4
57.5°	7.7	7.7	9.8	8.4	7.7
60°	7.7	7.7	7.7	7.7	7.7
62.5°	7.7	7.7	7.7	7.7	7.7
65°	7.0	7.7	7.7	7.7	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	7.0	7.0	6.3	7.0	7.0
72.5°	6.3	6.3	5.6	6.3	6.3
75°	4.9	4.9	4.9	4.9	4.9
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.5	3.5	2.8	3.5	3.5
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)