

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: P283967

Luminaire Tested: **LDA2B158027D010 EU2B15WFL558027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283967  
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: LDA2B158027D010 EU2B15WFL558027 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: 1219.2 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

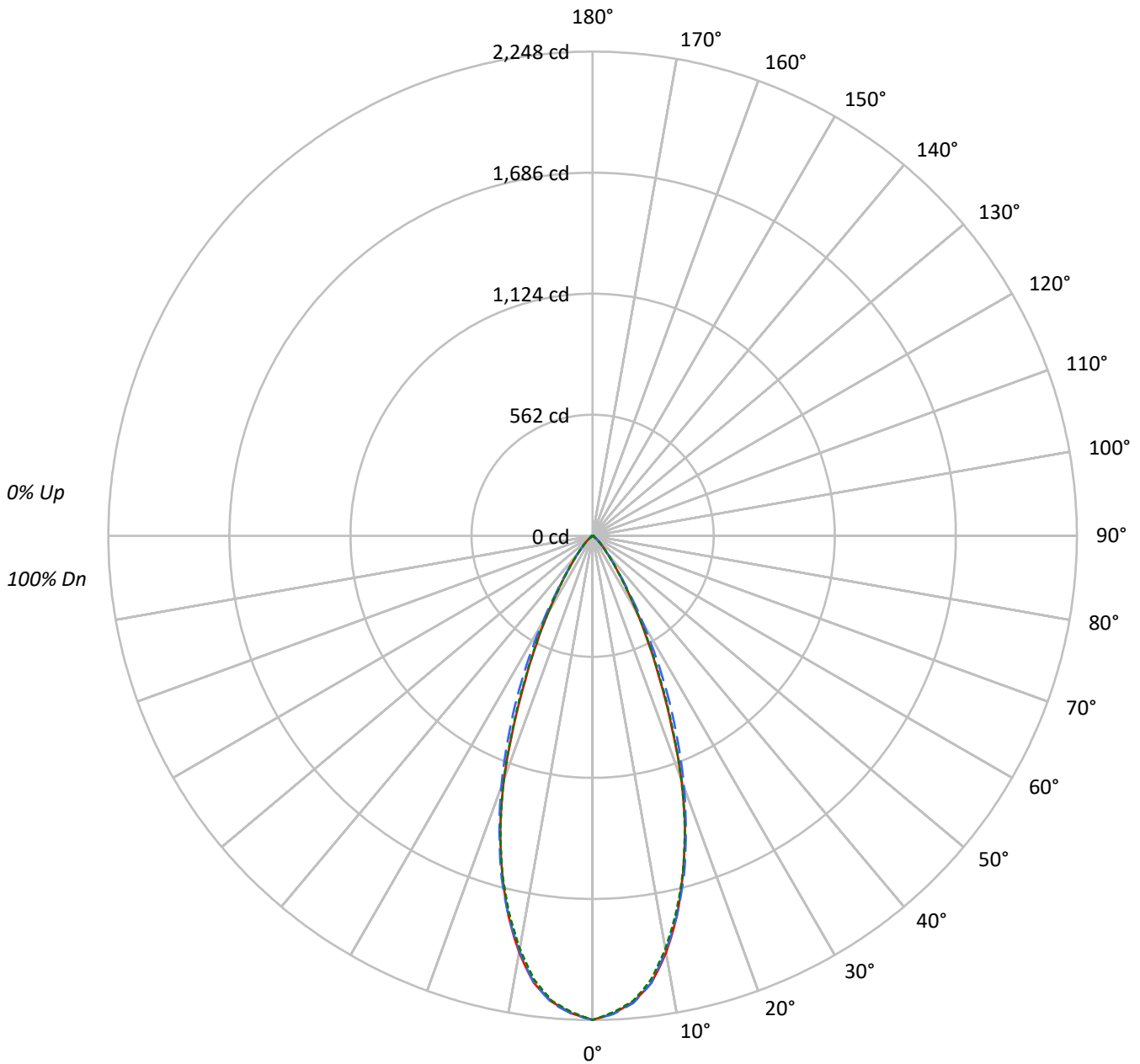
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1108929	1108929	1108929
5°	1075626	1078201	1073347
10°	984562	980654	974743
15°	828156	835817	826828
20°	633337	650138	632287
25°	402176	453401	410015
30°	233913	264049	238014
35°	123649	131539	124010
40°	65241	68204	65241
45°	36491	37886	36979
50°	17039	21568	17039
55°	6193	11784	6709
60°	7104	7104	7104
65°	7588	8405	7588
70°	9376	8511	9376
75°	8769	8769	8769
80°	9376	7387	9376
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.6	16.5
10°-20°	446.7	36.6
20°-30°	360.8	29.6
30°-40°	142.6	11.7
40°-50°	43.8	3.6
50°-60°	11.3	0.9
60°-70°	6.8	0.6
70°-80°	5.0	0.4
80°-90°	1.5	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°	1008.2	82.7
0°-40°	1150.8	94.4
0°-60°	1205.9	98.9
0°-90°	1219.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2172	2176	2177	2173	2167	201
15°	1621	1626	1636	1630	1619	445
25°	739	774	833	788	753	344
35°	205	211	218	212	206	138
45°	52	53	54	54	53	43
55°	7	10	14	10	8	9
65°	6	7	7	7	6	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°	2247.7	2247.7	2247.7	2247.7	2247.7
2.5°	2219.6	2220.9	2222.9	2220.3	2213.7
5°	2171.9	2175.8	2177.1	2172.6	2167.3
7.5°	2093.5	2088.9	2092.8	2085.0	2078.4
10°	1965.3	1959.4	1957.5	1945.7	1945.7
12.5°	1807.1	1805.1	1806.4	1800.6	1791.4
15°	1621.4	1626.0	1636.4	1629.9	1618.8
17.5°	1424.6	1431.2	1440.3	1438.3	1423.3
20°	1206.3	1225.2	1238.3	1225.9	1204.3
22.5°	957.8	998.3	1031.7	1005.5	970.2
25°	738.8	774.1	832.9	788.5	753.2
27.5°	560.3	585.8	639.4	595.6	571.4
30°	410.6	426.3	463.5	434.8	417.8
32.5°	293.6	304.7	320.4	303.4	294.9
35°	205.3	211.2	218.4	211.8	205.9
37.5°	144.5	146.5	151.7	146.5	143.8
40°	101.3	102.0	105.9	102.6	101.3
42.5°	73.2	73.2	75.2	73.9	73.2
45°	52.3	53.0	54.3	53.6	53.0
47.5°	37.3	38.6	38.6	39.2	36.6
50°	22.2	27.5	28.1	27.5	22.2
52.5°	11.8	16.3	20.3	16.3	11.8
55°	7.2	9.8	13.7	9.8	7.8
57.5°	7.2	7.2	9.2	7.8	7.2
60°	7.2	7.2	7.2	7.2	7.2
62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.5	7.2	7.2	7.2	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	5.9	6.5	6.5
72.5°	5.9	5.9	5.2	5.9	5.9
75°	4.6	4.6	4.6	4.6	4.6
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.3	3.3	2.6	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
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)