

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: P283964

Luminaire Tested: **LDA2B158027D010 EU2B15WFL558027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283964  
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 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1300.8 lumens  
Efficiency: N/A  
Efficacy: 92.3 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

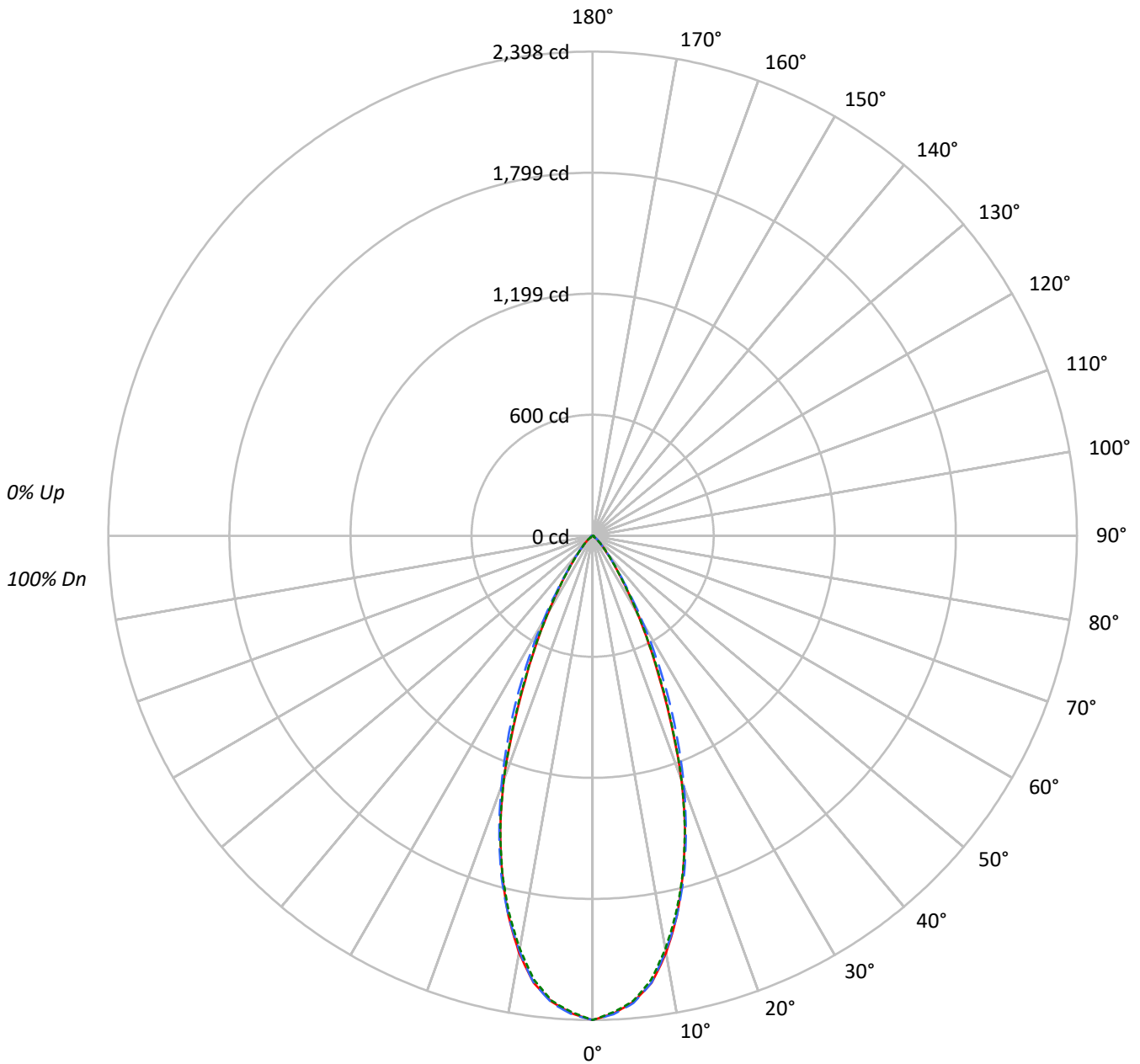
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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°	1183180	1183180	1183180
5°	1147634	1150408	1145208
10°	1050490	1046281	1039969
15°	883574	891797	882143
20°	675707	693663	674604
25°	429068	483777	437451
30°	249579	281766	253909
35°	131900	140332	132322
40°	69621	72776	69621
45°	38933	40398	39421
50°	18191	23026	18191
55°	6623	12558	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°	214.1	16.5
10°-20°	476.6	36.6
20°-30°	384.9	29.6
30°-40°	152.1	11.7
40°-50°	46.7	3.6
50°-60°	12.0	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°	1075.7	82.7
0°-40°	1227.8	94.4
0°-60°	1286.6	98.9
0°-90°	1300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2317	2322	2323	2318	2312	214
15°	1730	1735	1746	1739	1727	475
25°	788	826	889	841	804	367
35°	219	225	233	226	220	147
45°	56	56	58	57	56	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°	2398.2	2398.2	2398.2	2398.2	2398.2
2.5°	2368.2	2369.6	2371.7	2368.9	2361.9
5°	2317.3	2321.5	2322.9	2318.0	2312.4
7.5°	2233.6	2228.7	2232.9	2224.5	2217.5
10°	2096.9	2090.6	2088.5	2075.9	2075.9
12.5°	1928.0	1926.0	1927.3	1921.1	1911.3
15°	1729.9	1734.8	1746.0	1739.0	1727.1
17.5°	1520.0	1526.9	1536.7	1534.6	1518.6
20°	1287.0	1307.2	1321.2	1307.9	1284.9
22.5°	1021.9	1065.2	1100.7	1072.8	1035.2
25°	788.2	825.9	888.7	841.3	803.6
27.5°	597.8	625.0	682.2	635.5	609.7
30°	438.1	454.8	494.6	463.9	445.7
32.5°	313.2	325.1	341.8	323.7	314.6
35°	219.0	225.3	233.0	226.0	219.7
37.5°	154.2	156.3	161.8	156.3	153.5
40°	108.1	108.8	113.0	109.5	108.1
42.5°	78.1	78.1	80.2	78.8	78.1
45°	55.8	56.5	57.9	57.2	56.5
47.5°	39.8	41.2	41.2	41.9	39.1
50°	23.7	29.3	30.0	29.3	23.7
52.5°	12.6	17.4	21.6	17.4	12.6
55°	7.7	10.5	14.6	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)