

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: P284051

Luminaire Tested: **LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284051  
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: LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 2000 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: 1696.1 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

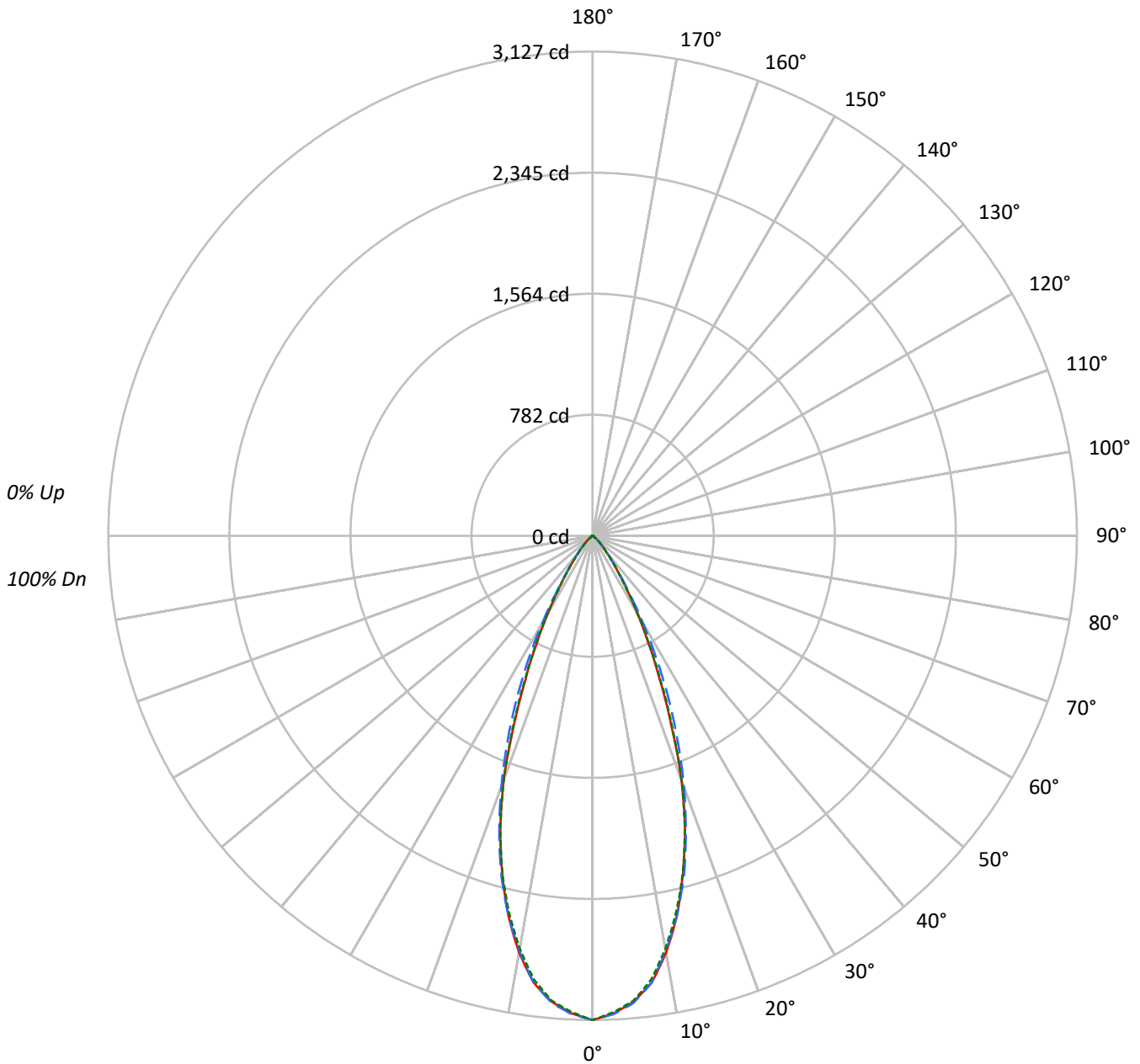
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1542792	1542792	1542792
5°	1496436	1500052	1493267
10°	1369760	1364299	1356083
15°	1152134	1162860	1150295
20°	881096	904460	879626
25°	559498	630810	570385
30°	325404	367390	331101
35°	172012	182974	172554
40°	90809	94931	90809
45°	50794	52678	51422
50°	23717	30011	23717
55°	8602	16429	9376
60°	9867	9867	9867
65°	10623	11674	10623
70°	13127	11828	13127
75°	12200	12200	12200
80°	12785	10228	12785
85°	10189	10189	10189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.1	16.5
10°-20°	621.5	36.6
20°-30°	501.9	29.6
30°-40°	198.4	11.7
40°-50°	60.9	3.6
50°-60°	15.7	0.9
60°-70°	9.5	0.6
70°-80°	7.0	0.4
80°-90°	2.1	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°	1402.6	82.7
0°-40°	1601.0	94.4
0°-60°	1677.6	98.9
0°-90°	1696.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3127	3127	3127	3127	3127	
5°	3022	3027	3029	3022	3015	280
15°	2256	2262	2277	2268	2252	620
25°	1028	1077	1159	1097	1048	478
35°	286	294	304	295	286	191
45°	73	74	76	75	74	59
55°	10	14	19	14	11	13
65°	9	10	10	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3127.1	3127.1	3127.1	3127.1	3127.1
2.5°	3088.0	3089.8	3092.5	3088.9	3079.8
5°	3021.6	3027.0	3028.9	3022.5	3015.2
7.5°	2912.4	2906.1	2911.5	2900.6	2891.5
10°	2734.2	2726.0	2723.3	2706.9	2706.9
12.5°	2514.0	2511.3	2513.1	2505.0	2492.2
15°	2255.7	2262.1	2276.7	2267.6	2252.1
17.5°	1982.0	1991.0	2003.8	2001.1	1980.1
20°	1678.2	1704.5	1722.7	1705.4	1675.4
22.5°	1332.5	1388.9	1435.3	1398.9	1349.8
25°	1027.8	1076.9	1158.8	1096.9	1047.8
27.5°	779.5	815.0	889.6	828.6	795.0
30°	571.2	593.0	644.9	604.9	581.2
32.5°	408.4	423.9	445.7	422.0	410.2
35°	285.6	293.8	303.8	294.7	286.5
37.5°	201.0	203.7	211.0	203.7	200.1
40°	141.0	141.9	147.4	142.8	141.0
42.5°	101.9	101.9	104.6	102.8	101.9
45°	72.8	73.7	75.5	74.6	73.7
47.5°	51.8	53.7	53.7	54.6	50.9
50°	30.9	38.2	39.1	38.2	30.9
52.5°	16.4	22.7	28.2	22.7	16.4
55°	10.0	13.6	19.1	13.6	10.9
57.5°	10.0	10.0	12.7	10.9	10.0
60°	10.0	10.0	10.0	10.0	10.0
62.5°	10.0	10.0	10.0	10.0	10.0
65°	9.1	10.0	10.0	10.0	9.1
67.5°	9.1	9.1	9.1	9.1	9.1
70°	9.1	9.1	8.2	9.1	9.1
72.5°	8.2	8.2	7.3	8.2	8.2
75°	6.4	6.4	6.4	6.4	6.4
77.5°	5.5	5.5	5.5	5.5	5.5
80°	4.5	4.5	3.6	4.5	4.5
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)