

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: P284061

Luminaire Tested: **LDA2B208035D010 EU2B20WFL558035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284061  
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: LDA2B208035D010 EU2B20WFL558035 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1812.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 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

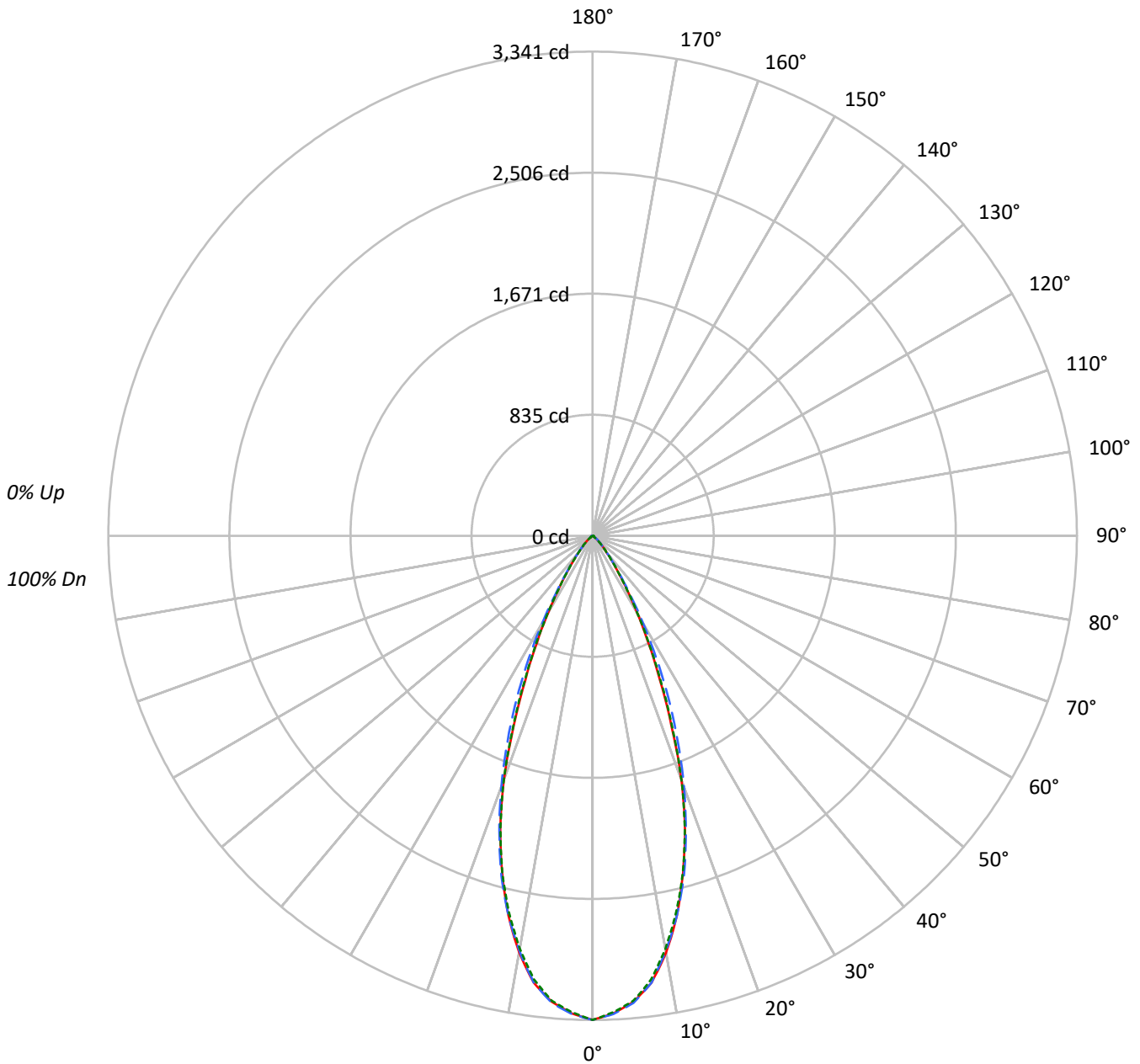
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1648223	1648223	1648223
5°	1598655	1602518	1595288
10°	1463341	1457480	1448713
15°	1230894	1242284	1228902
20°	941264	966255	939742
25°	597712	673923	609362
30°	347622	392456	353717
35°	183757	195501	184359
40°	96992	101372	96992
45°	54213	56306	54910
50°	25329	32083	25329
55°	9204	17547	10064
60°	10558	10558	10558
65°	11324	12491	11324
70°	13992	12550	13992
75°	12962	12962	12962
80°	13922	11081	13922
85°	10755	10755	10755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.2	16.5
10°-20°	664.0	36.6
20°-30°	536.2	29.6
30°-40°	211.9	11.7
40°-50°	65.1	3.6
50°-60°	16.8	0.9
60°-70°	10.1	0.6
70°-80°	7.4	0.4
80°-90°	2.2	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°	1498.4	82.7
0°-40°	1710.4	94.4
0°-60°	1792.2	98.9
0°-90°	1812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3341	3341	3341	3341	3341	
5°	3228	3234	3236	3229	3221	299
15°	2410	2417	2432	2422	2406	662
25°	1098	1150	1238	1172	1119	511
35°	305	314	325	315	306	204
45°	78	79	81	80	79	63
55°	11	15	20	15	12	13
65°	10	11	11	11	10	10
75°	7	7	7	7	7	8
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°	3340.8	3340.8	3340.8	3340.8	3340.8
2.5°	3299.0	3300.9	3303.8	3299.9	3290.2
5°	3228.0	3233.9	3235.8	3229.0	3221.2
7.5°	3111.4	3104.6	3110.5	3098.8	3089.1
10°	2921.0	2912.2	2909.3	2891.8	2891.8
12.5°	2685.8	2682.9	2684.8	2676.1	2662.5
15°	2409.9	2416.7	2432.2	2422.5	2406.0
17.5°	2117.4	2127.1	2140.7	2137.8	2115.4
20°	1792.8	1821.0	1840.4	1822.0	1789.9
22.5°	1423.6	1483.8	1533.4	1494.5	1442.0
25°	1098.0	1150.5	1238.0	1171.9	1119.4
27.5°	832.8	870.7	950.3	885.2	849.3
30°	610.2	633.6	688.9	646.2	620.9
32.5°	436.3	452.8	476.1	450.9	438.2
35°	305.1	313.9	324.6	314.8	306.1
37.5°	214.7	217.7	225.4	217.7	213.8
40°	150.6	151.6	157.4	152.6	150.6
42.5°	108.8	108.8	111.7	109.8	108.8
45°	77.7	78.7	80.7	79.7	78.7
47.5°	55.4	57.3	57.3	58.3	54.4
50°	33.0	40.8	41.8	40.8	33.0
52.5°	17.5	24.3	30.1	24.3	17.5
55°	10.7	14.6	20.4	14.6	11.7
57.5°	10.7	10.7	13.6	11.7	10.7
60°	10.7	10.7	10.7	10.7	10.7
62.5°	10.7	10.7	10.7	10.7	10.7
65°	9.7	10.7	10.7	10.7	9.7
67.5°	9.7	9.7	9.7	9.7	9.7
70°	9.7	9.7	8.7	9.7	9.7
72.5°	8.7	8.7	7.8	8.7	8.7
75°	6.8	6.8	6.8	6.8	6.8
77.5°	5.8	5.8	5.8	5.8	5.8
80°	4.9	4.9	3.9	4.9	4.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)