

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: P284050

Luminaire Tested: **LDA2B208027D010 EU2B20WFL558027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284050  
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 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1792.2 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

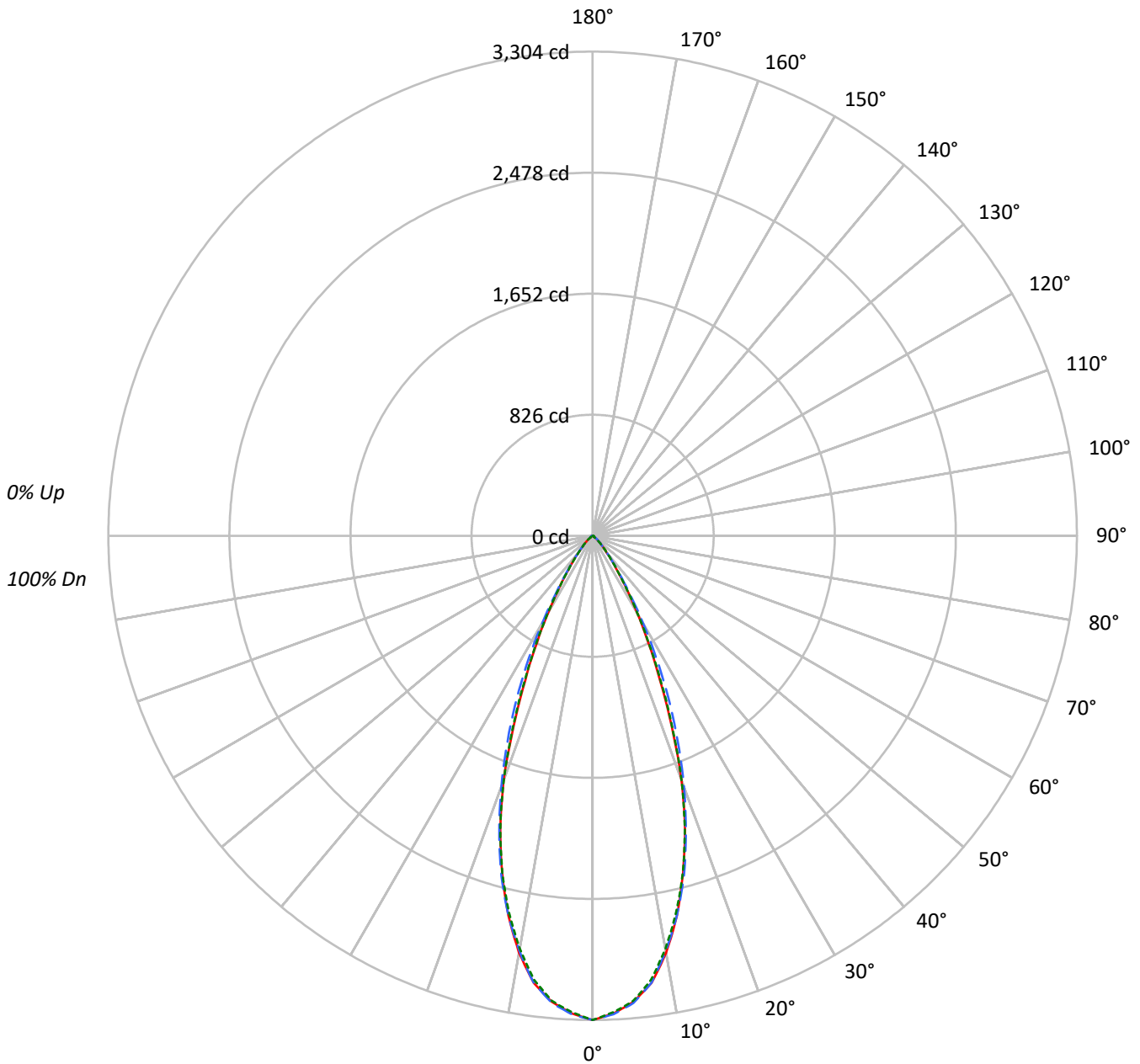
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1630166	1630166	1630166
5°	1581173	1584986	1577855
10°	1447310	1441549	1432882
15°	1217410	1228698	1215418
20°	930974	955702	929451
25°	591180	666520	602720
30°	343862	388183	349844
35°	181769	193333	182311
40°	95962	100277	95962
45°	53655	55678	54283
50°	25098	31699	25098
55°	9118	17375	9892
60°	10459	10459	10459
65°	11207	12374	11207
70°	13848	12405	13848
75°	12772	12772	12772
80°	13638	10796	13638
85°	10755	10755	10755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.9	16.5
10°-20°	656.7	36.6
20°-30°	530.4	29.6
30°-40°	209.6	11.7
40°-50°	64.4	3.6
50°-60°	16.6	0.9
60°-70°	10.0	0.6
70°-80°	7.3	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°	1482.0	82.7
0°-40°	1691.6	94.4
0°-60°	1772.6	98.9
0°-90°	1792.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3304	3304	3304	3304	3304	
5°	3193	3198	3200	3194	3186	295
15°	2384	2390	2406	2396	2380	655
25°	1086	1138	1224	1159	1107	506
35°	302	310	321	311	303	202
45°	77	78	80	79	78	63
55°	11	14	20	14	12	13
65°	10	11	11	11	10	10
75°	7	7	7	7	7	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°	3304.2	3304.2	3304.2	3304.2	3304.2
2.5°	3262.9	3264.8	3267.7	3263.8	3254.2
5°	3192.7	3198.5	3200.4	3193.7	3186.0
7.5°	3077.4	3070.7	3076.4	3064.9	3055.3
10°	2889.0	2880.4	2877.5	2860.2	2860.2
12.5°	2656.4	2653.6	2655.5	2646.8	2633.4
15°	2383.5	2390.2	2405.6	2396.0	2379.6
17.5°	2094.2	2103.8	2117.3	2114.4	2092.3
20°	1773.2	1801.1	1820.3	1802.0	1770.3
22.5°	1408.0	1467.6	1516.6	1478.1	1426.2
25°	1086.0	1137.9	1224.4	1159.1	1107.2
27.5°	823.6	861.1	939.9	875.5	840.0
30°	603.6	626.6	681.4	639.1	614.1
32.5°	431.5	447.9	470.9	445.9	433.4
35°	301.8	310.4	321.0	311.4	302.7
37.5°	212.4	215.3	223.0	215.3	211.4
40°	149.0	149.9	155.7	150.9	149.0
42.5°	107.6	107.6	110.5	108.6	107.6
45°	76.9	77.8	79.8	78.8	77.8
47.5°	54.8	56.7	56.7	57.7	53.8
50°	32.7	40.4	41.3	40.4	32.7
52.5°	17.3	24.0	29.8	24.0	17.3
55°	10.6	14.4	20.2	14.4	11.5
57.5°	10.6	10.6	13.5	11.5	10.6
60°	10.6	10.6	10.6	10.6	10.6
62.5°	10.6	10.6	10.6	10.6	10.6
65°	9.6	10.6	10.6	10.6	9.6
67.5°	9.6	9.6	9.6	9.6	9.6
70°	9.6	9.6	8.6	9.6	9.6
72.5°	8.6	8.6	7.7	8.6	8.6
75°	6.7	6.7	6.7	6.7	6.7
77.5°	5.8	5.8	5.8	5.8	5.8
80°	4.8	4.8	3.8	4.8	4.8
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)