

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: P284062

Luminaire Tested: **LDA2B208035D010 EU2B20WFL558035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284062  
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 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: 1847.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 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

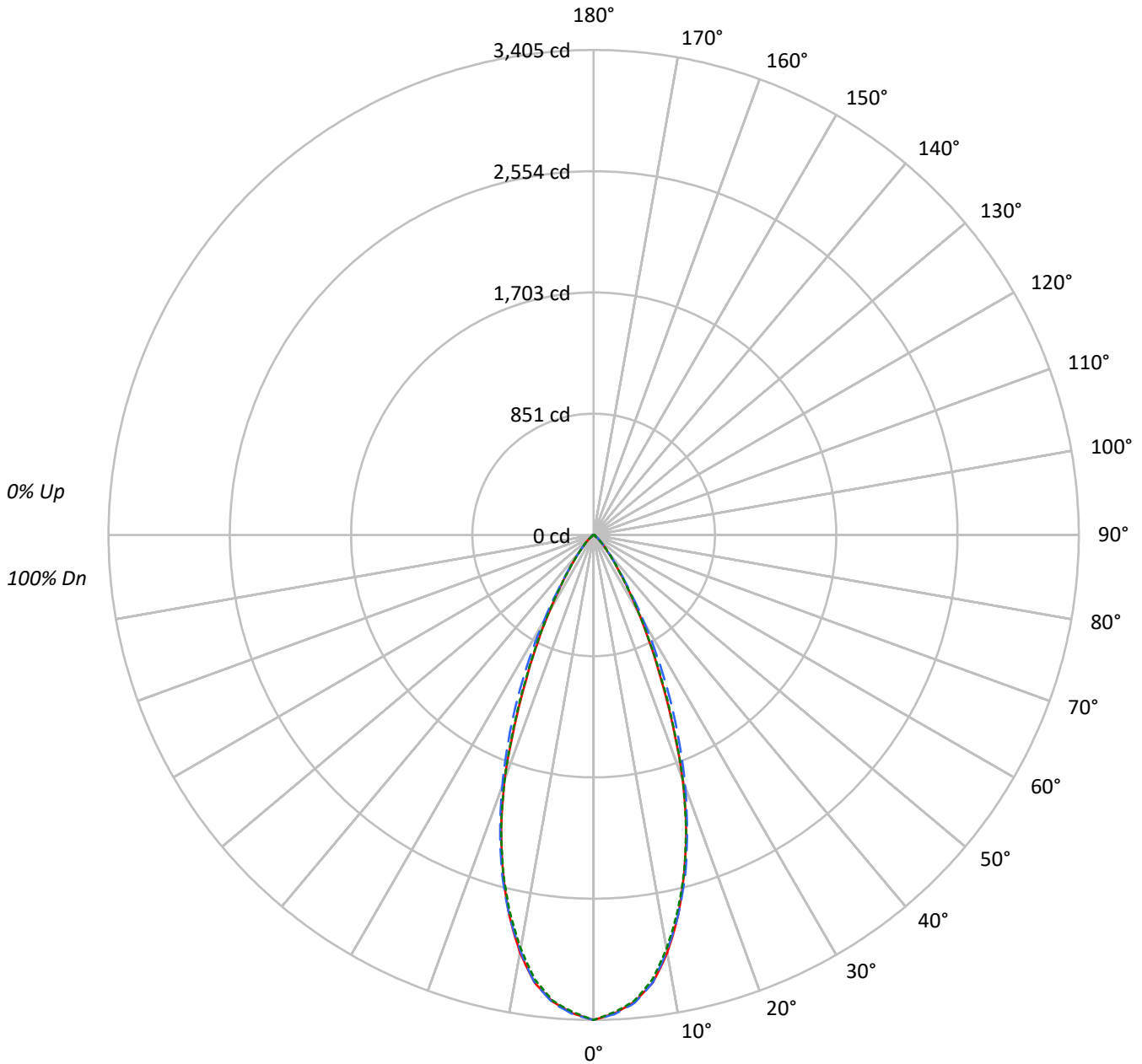
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1680045	1680045	1680045
5°	1629559	1633471	1626141
10°	1491596	1485635	1476717
15°	1254645	1266290	1252602
20°	959430	984946	957907
25°	609253	686934	621120
30°	354344	400090	360554
35°	187310	199235	187912
40°	98860	103368	98860
45°	55259	57352	55957
50°	25866	32697	25866
55°	9376	17891	10236
60°	10755	10755	10755
65°	11557	12725	11557
70°	14281	12838	14281
75°	13153	13153	13153
80°	14206	11365	14206
85°	11321	11321	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.0	16.5
10°-20°	676.8	36.6
20°-30°	546.6	29.6
30°-40°	216.0	11.7
40°-50°	66.3	3.6
50°-60°	17.1	0.9
60°-70°	10.3	0.6
70°-80°	7.6	0.4
80°-90°	2.3	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°	1527.4	82.7
0°-40°	1743.4	94.4
0°-60°	1826.8	98.9
0°-90°	1847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3405	3405	3405	3405	3405	
5°	3290	3296	3298	3291	3284	305
15°	2456	2463	2479	2469	2452	675
25°	1119	1173	1262	1194	1141	521
35°	311	320	331	321	312	208
45°	79	80	82	81	80	65
55°	11	15	21	15	12	14
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°	3405.3	3405.3	3405.3	3405.3	3405.3
2.5°	3362.7	3364.7	3367.6	3363.7	3353.8
5°	3290.4	3296.3	3298.3	3291.4	3283.5
7.5°	3171.5	3164.6	3170.5	3158.7	3148.7
10°	2977.4	2968.5	2965.5	2947.7	2947.7
12.5°	2737.7	2734.7	2736.7	2727.8	2713.9
15°	2456.4	2463.3	2479.2	2469.3	2452.4
17.5°	2158.3	2168.2	2182.0	2179.1	2156.3
20°	1827.4	1856.2	1876.0	1857.2	1824.5
22.5°	1451.1	1512.5	1563.0	1523.4	1469.9
25°	1119.2	1172.7	1261.9	1194.5	1141.0
27.5°	848.8	887.5	968.7	902.3	865.7
30°	622.0	645.8	702.3	658.7	632.9
32.5°	444.7	461.6	485.3	459.6	446.7
35°	311.0	319.9	330.8	320.9	312.0
37.5°	218.9	221.9	229.8	221.9	217.9
40°	153.5	154.5	160.5	155.5	153.5
42.5°	110.9	110.9	113.9	111.9	110.9
45°	79.2	80.2	82.2	81.2	80.2
47.5°	56.5	58.4	58.4	59.4	55.5
50°	33.7	41.6	42.6	41.6	33.7
52.5°	17.8	24.8	30.7	24.8	17.8
55°	10.9	14.9	20.8	14.9	11.9
57.5°	10.9	10.9	13.9	11.9	10.9
60°	10.9	10.9	10.9	10.9	10.9
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.9	10.9	10.9	10.9	9.9
67.5°	9.9	9.9	9.9	9.9	9.9
70°	9.9	9.9	8.9	9.9	9.9
72.5°	8.9	8.9	7.9	8.9	8.9
75°	6.9	6.9	6.9	6.9	6.9
77.5°	5.9	5.9	5.9	5.9	5.9
80°	5.0	5.0	4.0	5.0	5.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	2.0	2.0	2.0	2.0	2.0
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)