

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: P284090

Luminaire Tested: **LDA2B209030D010 EU2B20WFL559030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284090  
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: LDA2B209030D010 EU2B20WFL559030 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 2000 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: 1487.9 lumens  
Efficiency: N/A  
Efficacy: 72.2 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

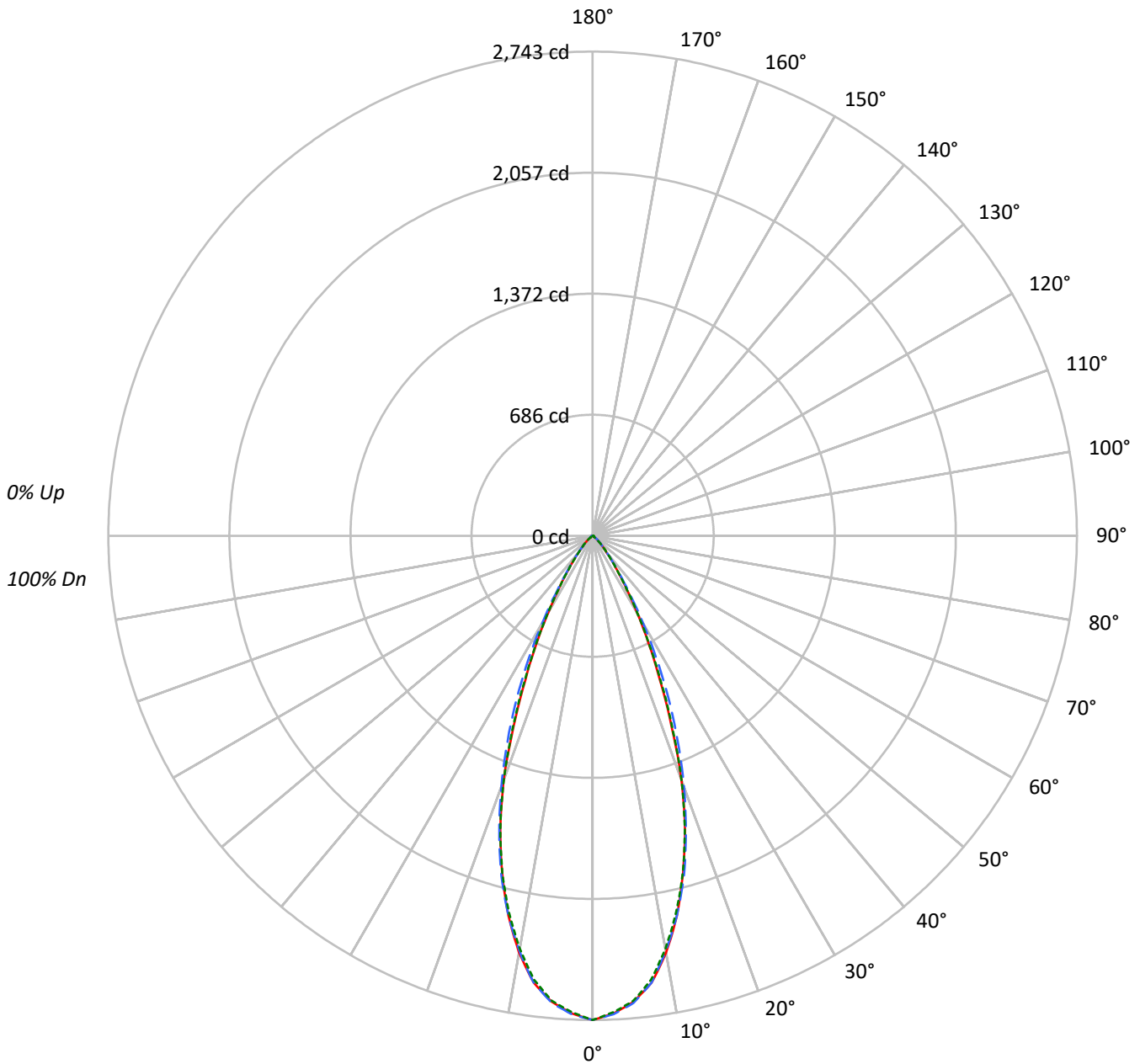
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1353341	1353341	1353341
5°	1312650	1315820	1309877
10°	1201533	1196724	1189510
15°	1010652	1020050	1009018
20°	772889	793417	771629
25°	490799	553347	500325
30°	285469	322271	290425
35°	150872	160509	151354
40°	79668	83274	79668
45°	44514	46189	45073
50°	20800	26326	20800
55°	7569	14451	8257
60°	8683	8683	8683
65°	9339	10273	9339
70°	11540	10386	11540
75°	10675	10675	10675
80°	11365	9092	11365
85°	9057	9057	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	16.5
10°-20°	545.2	36.6
20°-30°	440.3	29.6
30°-40°	174.0	11.7
40°-50°	53.4	3.6
50°-60°	13.8	0.9
60°-70°	8.4	0.6
70°-80°	6.1	0.4
80°-90°	1.8	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°	1230.3	82.7
0°-40°	1404.4	94.4
0°-60°	1471.6	98.9
0°-90°	1487.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2650	2655	2657	2651	2645	245
15°	1979	1984	1997	1989	1976	543
25°	902	945	1016	962	919	420
35°	250	258	266	258	251	168
45°	64	65	66	65	65	52
55°	9	12	17	12	10	11
65°	8	9	9	9	8	8
75°	6	6	6	6	6	6
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°	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2708.8	2710.3	2712.7	2709.5	2701.6
5°	2650.5	2655.3	2656.9	2651.3	2644.9
7.5°	2554.8	2549.2	2554.0	2544.4	2536.4
10°	2398.4	2391.2	2388.8	2374.4	2374.4
12.5°	2205.3	2202.9	2204.5	2197.3	2186.2
15°	1978.7	1984.3	1997.1	1989.1	1975.5
17.5°	1738.5	1746.5	1757.7	1755.3	1737.0
20°	1472.1	1495.2	1511.2	1496.0	1469.7
22.5°	1168.9	1218.3	1259.0	1227.1	1184.0
25°	901.6	944.7	1016.5	962.2	919.1
27.5°	683.8	714.9	780.3	726.9	697.3
30°	501.1	520.2	565.7	530.6	509.8
32.5°	358.2	371.8	391.0	370.2	359.8
35°	250.5	257.7	266.5	258.5	251.3
37.5°	176.3	178.7	185.1	178.7	175.5
40°	123.7	124.5	129.3	125.3	123.7
42.5°	89.4	89.4	91.8	90.2	89.4
45°	63.8	64.6	66.2	65.4	64.6
47.5°	45.5	47.1	47.1	47.9	44.7
50°	27.1	33.5	34.3	33.5	27.1
52.5°	14.4	19.9	24.7	19.9	14.4
55°	8.8	12.0	16.8	12.0	9.6
57.5°	8.8	8.8	11.2	9.6	8.8
60°	8.8	8.8	8.8	8.8	8.8
62.5°	8.8	8.8	8.8	8.8	8.8
65°	8.0	8.8	8.8	8.8	8.0
67.5°	8.0	8.0	8.0	8.0	8.0
70°	8.0	8.0	7.2	8.0	8.0
72.5°	7.2	7.2	6.4	7.2	7.2
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.8	4.8	4.8	4.8	4.8
80°	4.0	4.0	3.2	4.0	4.0
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)