

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: P280944

Luminaire Tested: **LDA2B209050D010 EU2B20WFL559050 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P280944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B209050D010 EU2B20WFL559050 2LBALD1WHH  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in ADJ spun Refl w/lens Self-Flanged, WHH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1862.6 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.73  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

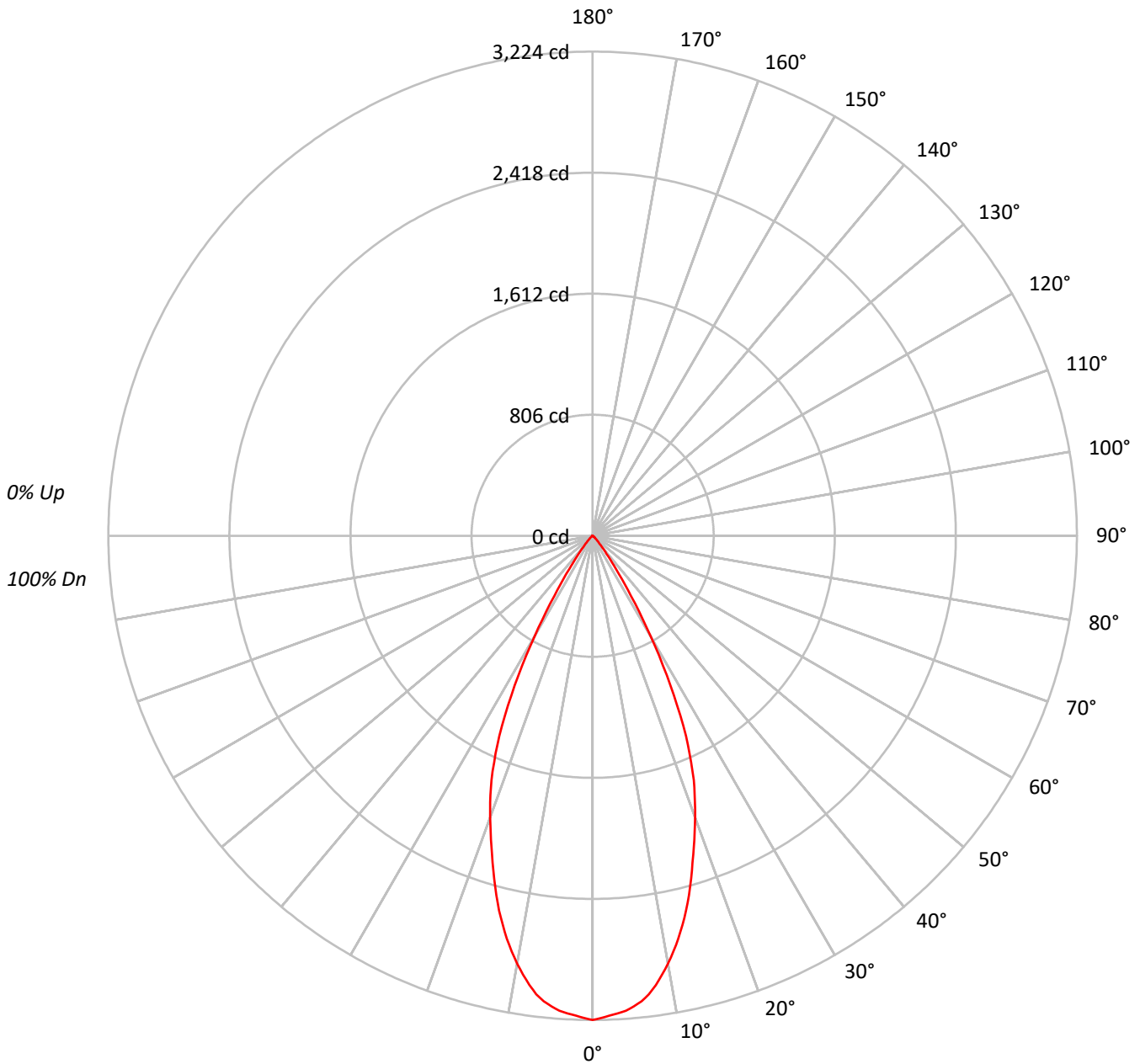
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	97	97	95	95	95	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80	80	80	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72	72	72	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69	69	69	69
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65	65	65
9	81	73	68	64	80	72	68	64	72	67	64	71	67	64	70	66	64	62	62	62	62
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	59	59	59	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1590697
5°	1558293
10°	1449064
15°	1265218
20°	1047529
25°	801196
30°	438430
35°	162315
40°	56160
45°	25327
50°	11897
55°	5935
60°	1677
65°	1051
70°	1298
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.4	15.7
10°-20°	684.6	36.8
20°-30°	647.1	34.7
30°-40°	199.2	10.7
40°-50°	31.5	1.7
50°-60°	6.7	0.4
60°-70°	1.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1624.1	87.2
0°-40°	1823.4	97.9
0°-60°	1861.5	99.9
0°-90°	1862.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3224	
5°	3146	292
15°	2477	685
25°	1472	647
35°	270	199
45°	36	31
55°	7	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3224.2
1°	3212.1
2°	3197.4
3°	3185.3
4°	3169.8
5°	3146.5
6°	3116.2
7°	3075.7
8°	3021.2
9°	2958.2
10°	2892.5
11°	2820.0
12°	2743.1
13°	2659.3
14°	2572.1
15°	2477.1
17.5°	2225.8
20°	1995.2
22.5°	1761.1
25°	1471.8
27.5°	1122.8
30°	769.6
32.5°	472.4
35°	269.5
37.5°	150.3
40°	87.2
42.5°	54.4
45°	36.3
47.5°	24.2
50°	15.5
52.5°	10.4
55°	6.9
57.5°	4.3
60°	1.7
62.5°	0.9
65°	0.9
67.5°	0.9
70°	0.9
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)