

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: P225266

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL408050 2LBDSQLC\*MB  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1695.8 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

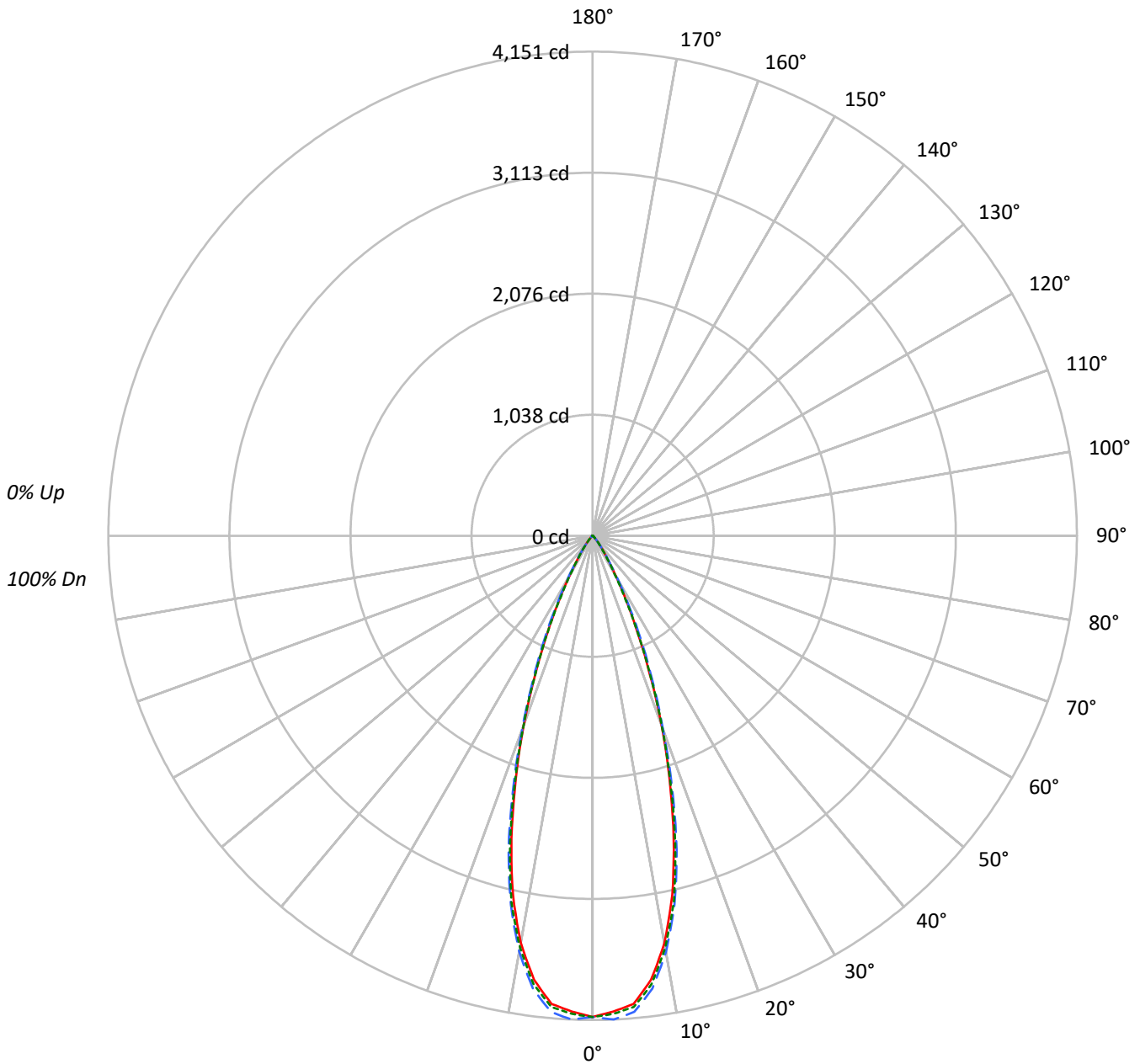
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

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

	0°	45°	90°
0°	1598073	1598073	1598073
5°	1566501	1593407	1576377
10°	1394010	1423981	1409467
15°	1077073	1115931	1096482
20°	710518	725728	714310
25°	387556	414183	389522
30°	174435	192996	167189
35°	75280	77455	68754
40°	31502	32665	29176
45°	12654	13914	13914
50°	5544	6930	6930
55°	3106	3106	4660
60°	1782	1782	1782
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.9	22.0
10°-20°	742.3	43.8
20°-30°	438.5	25.9
30°-40°	114.1	6.7
40°-50°	22.6	1.3
50°-60°	4.9	0.3
60°-70°	0.4	0.0
70°-80°	0.0	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°	1553.7	91.6
0°-40°	1667.9	98.4
0°-60°	1695.4	100.0
0°-90°	1695.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4126	4126	4126	4126	4126	
5°	4029	4061	4098	4070	4054	369
15°	2686	2746	2783	2741	2734	729
25°	907	937	969	932	911	427
35°	159	166	164	162	145	111
45°	23	28	25	25	25	21
55°	5	5	5	5	7	5
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4125.7	4125.7	4125.7	4125.7	4125.7
2.5°	4081.9	4123.4	4151.1	4128.0	4102.6
5°	4028.8	4061.1	4098.0	4070.3	4054.2
7.5°	3839.6	3888.0	3915.7	3901.9	3876.5
10°	3544.2	3581.2	3620.4	3606.5	3583.5
12.5°	3154.3	3205.0	3242.0	3209.7	3214.3
15°	2685.9	2745.9	2782.8	2741.2	2734.3
17.5°	2189.8	2235.9	2261.3	2235.9	2217.5
20°	1723.7	1751.3	1760.6	1749.0	1732.9
22.5°	1273.7	1303.7	1331.4	1303.7	1282.9
25°	906.8	936.8	969.1	932.2	911.4
27.5°	611.5	629.9	657.6	623.0	593.0
30°	390.0	410.7	431.5	406.1	373.8
32.5°	246.9	260.7	263.0	258.4	230.7
35°	159.2	166.1	163.8	161.5	145.4
37.5°	101.5	101.5	103.8	101.5	92.3
40°	62.3	66.9	64.6	62.3	57.7
42.5°	36.9	41.5	39.2	39.2	36.9
45°	23.1	27.7	25.4	25.4	25.4
47.5°	16.2	18.5	16.2	16.2	18.5
50°	9.2	11.5	11.5	11.5	11.5
52.5°	6.9	6.9	6.9	6.9	9.2
55°	4.6	4.6	4.6	4.6	6.9
57.5°	4.6	4.6	2.3	2.3	4.6
60°	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	0.0	0.0	0.0	2.3
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)