

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: P225053

Luminaire Tested: **LD2B20D010 EU2B20FL408027 2LBD\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14830)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL408027 2LBD\*WMH  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1710.4 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

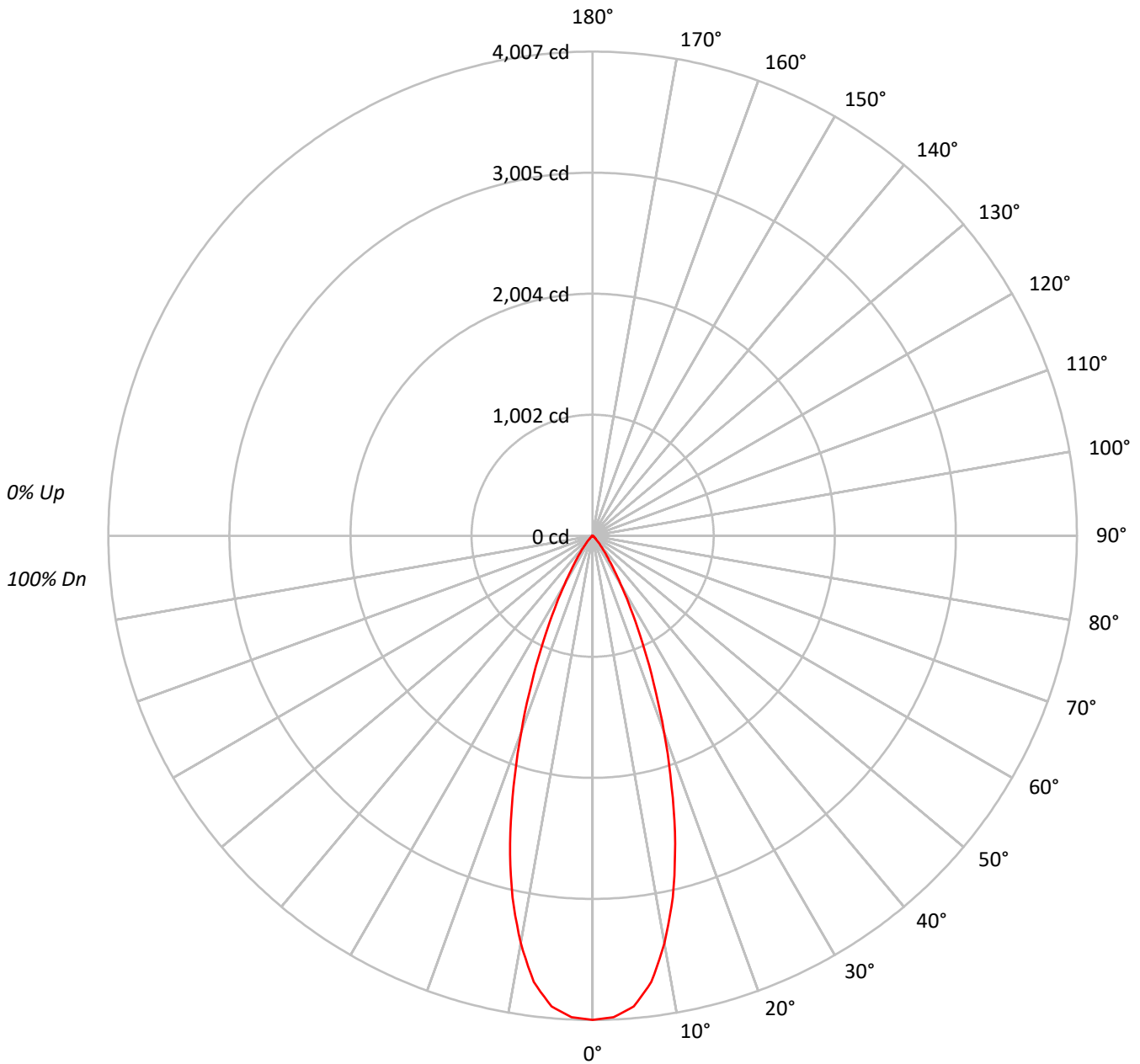
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																											
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91																											
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87																											
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	83																											
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79																											
6	94	87	82	78	93	86	81	78	85	81	77	83	80	77	82	79	77	75																											
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																											
8	87	79	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																											
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66																											
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64																											

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

	0°
0°	1552057
5°	1520036
10°	1346615
15°	1058185
20°	711425
25°	413285
30°	206549
35°	97410
40°	46064
45°	20213
50°	10425
55°	5875
60°	3331
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.7	20.9
10°-20°	715.7	41.8
20°-30°	452.4	26.5
30°-40°	141.5	8.3
40°-50°	32.9	1.9
50°-60°	8.6	0.5
60°-70°	1.6	0.1
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°	1525.8	89.2
0°-40°	1667.3	97.5
0°-60°	1708.8	99.9
0°-90°	1710.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4007	
5°	3909	358
15°	2639	716
25°	967	452
35°	206	142
45°	37	33
55°	9	9
65°	0	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4006.9
2.5°	3987.4
5°	3909.3
7.5°	3725.0
10°	3423.7
12.5°	3065.9
15°	2638.8
17.5°	2172.6
20°	1725.9
22.5°	1314.0
25°	967.0
27.5°	683.0
30°	461.8
32.5°	307.9
35°	206.0
37.5°	138.8
40°	91.1
42.5°	56.4
45°	36.9
47.5°	26.0
50°	17.3
52.5°	13.0
55°	8.7
57.5°	6.5
60°	4.3
62.5°	4.3
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)