

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: P223475

Luminaire Tested: **LD2B20D010 EU2B20NFL258027 2LBD\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20NFL258027 2LBD\*WMH  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1807.3 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

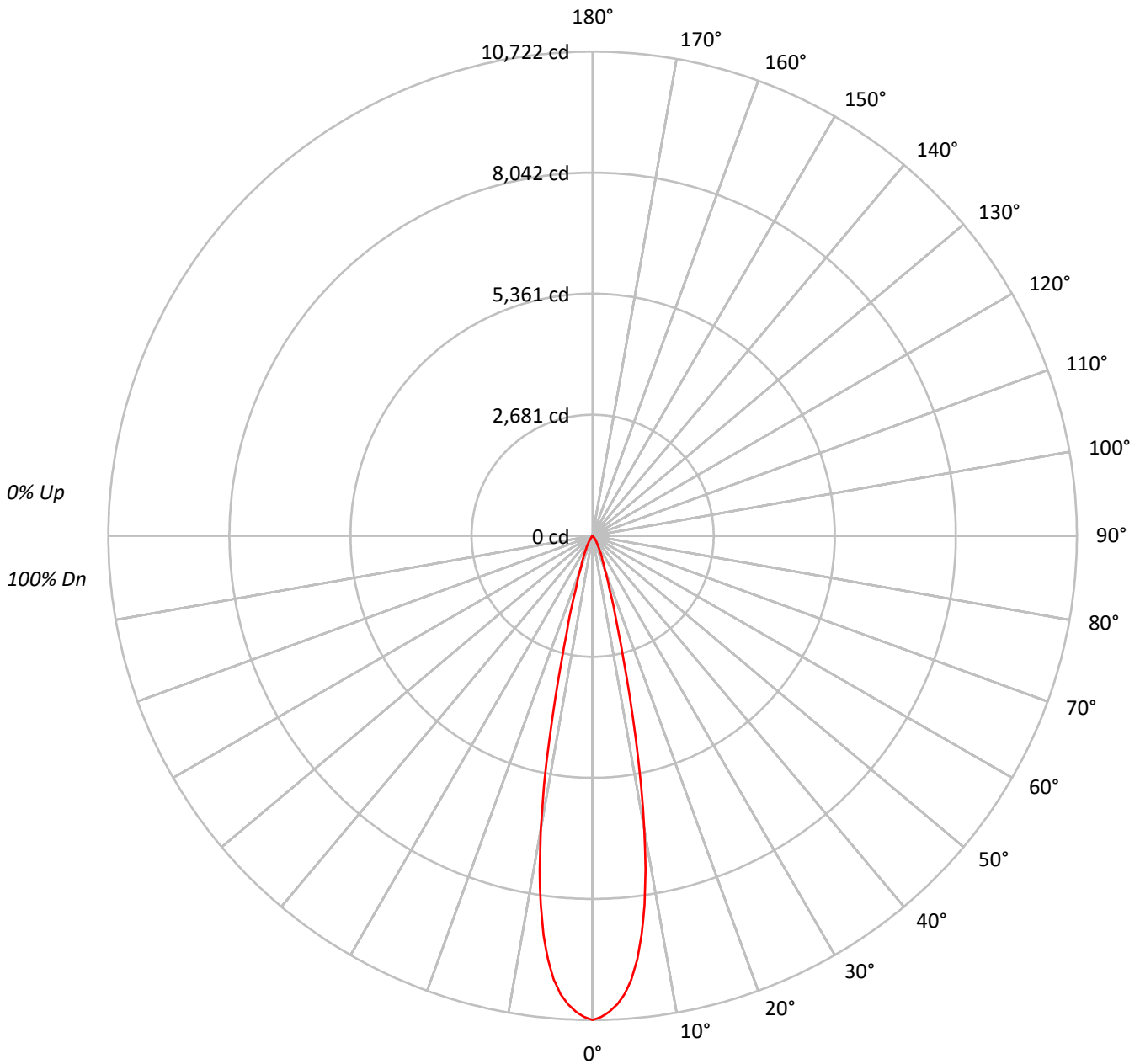
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223475

CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD\*WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P223475

CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD\*WMH

**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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																											
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95																											
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92																											
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90																											
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88																											
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86																											
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84																											
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82																											
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80																											
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79																											

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

	0°
0°	4153124
5°	3834676
10°	2595567
15°	883064
20°	324323
25°	171939
30°	88380
35°	41234
40°	13501
45°	6847
50°	3194
55°	1216
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223475

CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD\*WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.9	46.4
10°-20°	705.4	39.0
20°-30°	193.6	10.7
30°-40°	56.4	3.1
40°-50°	10.4	0.6
50°-60°	2.4	0.1
60°-70°	0.2	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°	1737.8	96.2
0°-40°	1794.3	99.3
0°-60°	1807.1	100.0
0°-90°	1807.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10722	
5°	9862	839
15°	2202	705
25°	402	194
35°	87	56
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223475

CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD\*WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10722.0
1°	10659.7
2°	10549.4
3°	10390.9
4°	10173.7
5°	9862.2
6°	9436.7
7°	8904.5
8°	8254.7
9°	7487.4
10°	6599.1
11°	5625.4
12°	4612.4
13°	3645.8
14°	2821.6
15°	2202.1
17.5°	1242.6
20°	786.8
22.5°	560.8
25°	402.3
27.5°	284.8
30°	197.6
32.5°	138.9
35°	87.2
37.5°	35.6
40°	26.7
42.5°	19.6
45°	12.5
47.5°	7.1
50°	5.3
52.5°	3.6
55°	1.8
57.5°	1.8
60°	1.8
62.5°	0.0
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



TEST NUMBER: P223475

CATALOG NUMBER: LD2B20D010 EU2B20NFL258027 2LBD\*WMH

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)