

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: P223796

Luminaire Tested: **LD2B10D010 EU2B10SP159040 2LBDL\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 150)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B10D010 EU2B10SP159040 2LBDL\*WMH  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 465.6 lumens  
Efficiency: N/A  
Efficacy: 45.2 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

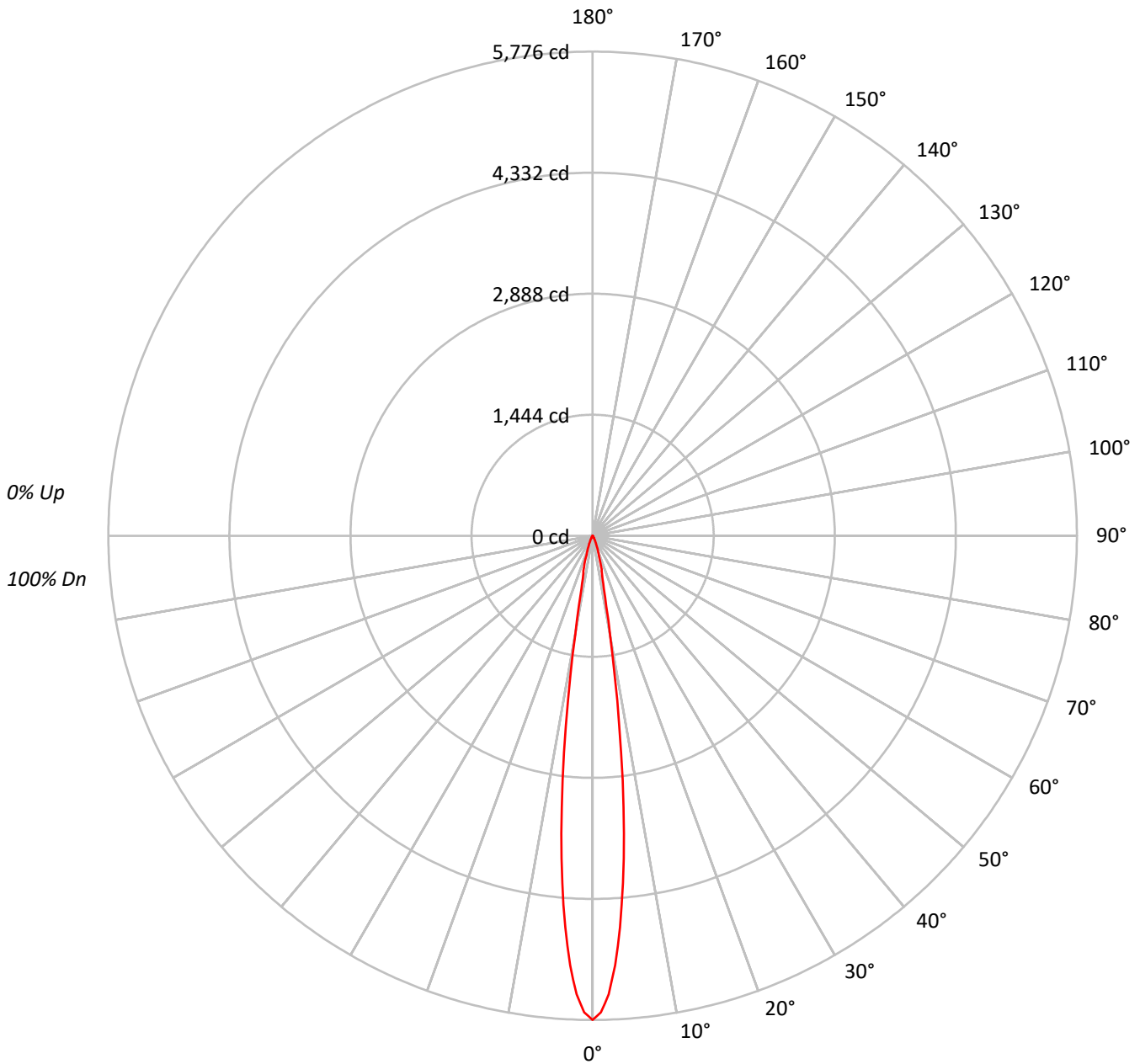
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96						96													
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94						94													
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93						93													
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91						91													
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90						90													
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88						88													
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87						87													
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86						86													
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85						85													

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

	0°
0°	2237310
5°	1617359
10°	470845
15°	165216
20°	70734
25°	31840
30°	12300
35°	6147
40°	4096
45°	2684
50°	1446
55°	1081
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.3	63.2
10°-20°	119.7	25.7
20°-30°	36.8	7.9
30°-40°	9.1	1.9
40°-50°	3.8	0.8
50°-60°	1.6	0.3
60°-70°	0.3	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°	450.8	96.8
0°-40°	459.9	98.8
0°-60°	465.3	99.9
0°-90°	465.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5776	
5°	4160	294
15°	412	120
25°	74	37
35°	13	9
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5776.0
1°	5687.8
2°	5472.5
3°	5129.3
4°	4680.8
5°	4159.6
6°	3571.9
7°	2934.1
8°	2287.4
9°	1682.8
10°	1197.1
11°	858.0
12°	645.1
13°	525.3
14°	459.7
15°	412.0
17.5°	254.2
20°	171.6
22.5°	114.9
25°	74.5
27.5°	45.3
30°	27.5
32.5°	17.8
35°	13.0
37.5°	10.5
40°	8.1
42.5°	6.5
45°	4.9
47.5°	3.2
50°	2.4
52.5°	2.4
55°	1.6
57.5°	1.6
60°	0.8
62.5°	0.8
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



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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)