

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: P223737

Luminaire Tested: **LD2B05D010 EU2B05SP159040 2LBDC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223737  
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: LD2B05D010 EU2B05SP159040 2LBDC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 383.0 lumens  
Efficiency: N/A  
Efficacy: 52.5 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

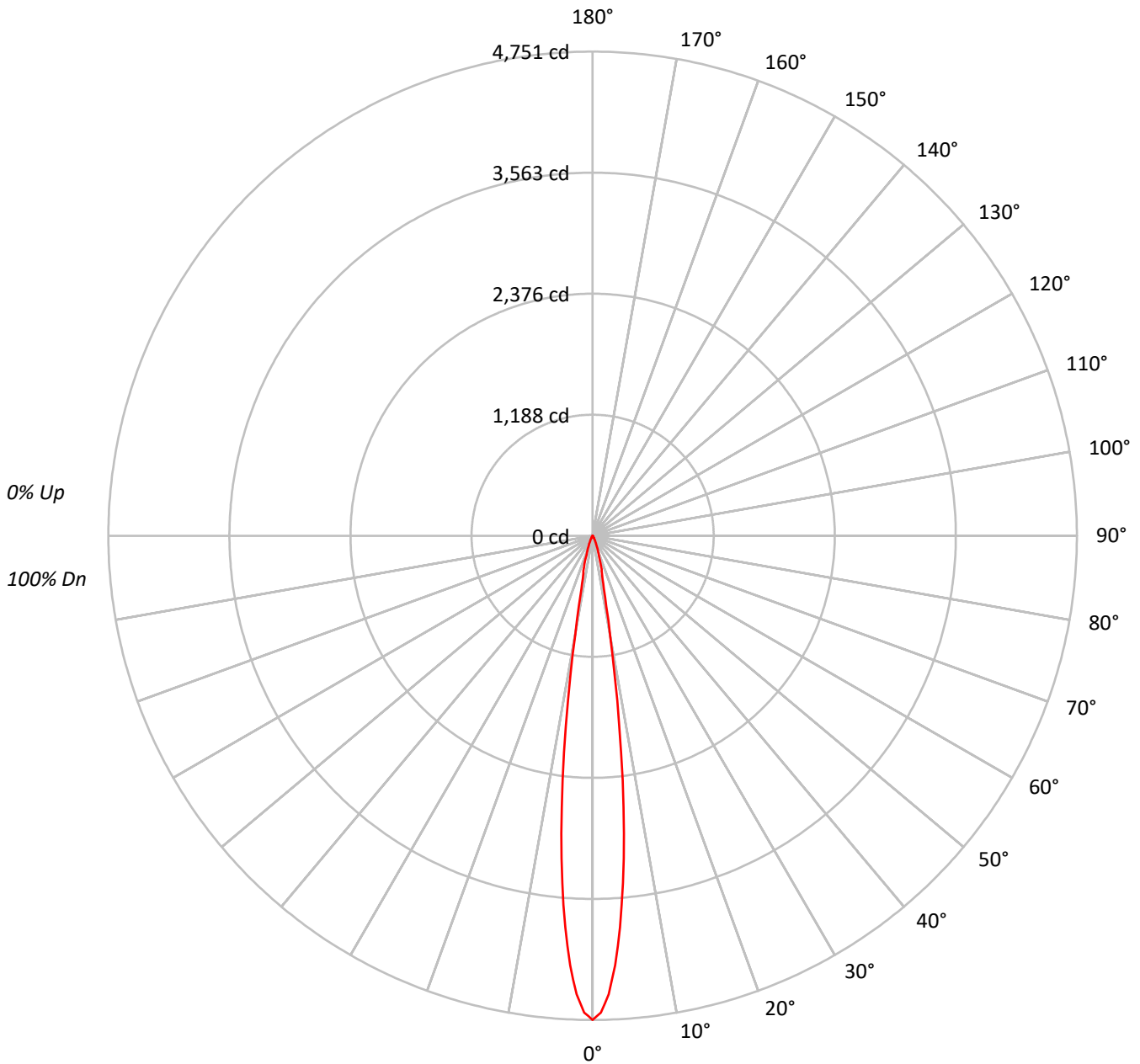
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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
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	98	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°	1840397
5°	1330406
10°	387304
15°	135902
20°	58203
25°	26199
30°	10108
35°	5060
40°	3388
45°	2191
50°	1205
55°	878
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.1	63.2
10°-20°	98.5	25.7
20°-30°	30.2	7.9
30°-40°	7.5	1.9
40°-50°	3.1	0.8
50°-60°	1.3	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°	370.9	96.8
0°-40°	378.3	98.8
0°-60°	382.8	99.9
0°-90°	383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	383.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4751	
5°	3422	242
15°	339	99
25°	61	30
35°	11	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4751.3
1°	4678.7
2°	4501.6
3°	4219.3
4°	3850.4
5°	3421.6
6°	2938.3
7°	2413.6
8°	1881.6
9°	1384.2
10°	984.7
11°	705.8
12°	530.7
13°	432.1
14°	378.2
15°	338.9
17.5°	209.1
20°	141.2
22.5°	94.5
25°	61.3
27.5°	37.3
30°	22.6
32.5°	14.6
35°	10.7
37.5°	8.7
40°	6.7
42.5°	5.3
45°	4.0
47.5°	2.7
50°	2.0
52.5°	2.0
55°	1.3
57.5°	1.3
60°	0.7
62.5°	0.7
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)