

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: P223878

Luminaire Tested: **LD2B05D010 EU2B05SP159024 2LBDSQC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223878  
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 EU2B05SP159024 2LBDSQC\*MMS  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SQUARE CAST TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 278.0 lumens  
Efficiency: N/A  
Efficacy: 38.1 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

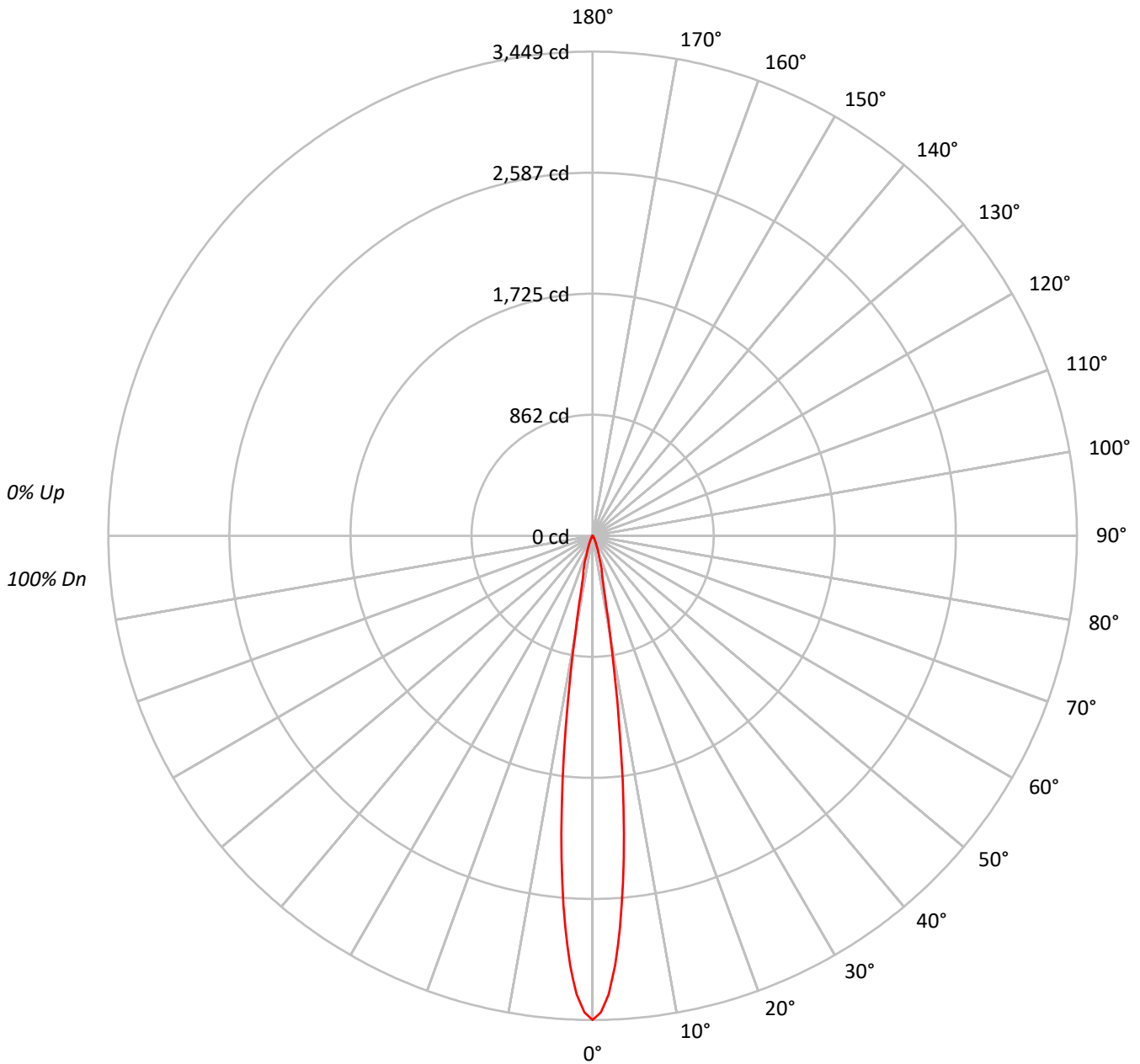
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									20																	
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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																																				
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96																																				
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94																																				
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																																				
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91																																				
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90																																				
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88																																				
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87																																				
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86																																				
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85																																				

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

	0°
0°	1335840
5°	965687
10°	281146
15°	98648
20°	42251
25°	19019
30°	7335
35°	3641
40°	2427
45°	1589
50°	844
55°	675
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.7	63.2
10°-20°	71.5	25.7
20°-30°	22.0	7.9
30°-40°	5.4	1.9
40°-50°	2.2	0.8
50°-60°	1.0	0.3
60°-70°	0.2	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°	269.2	96.8
0°-40°	274.6	98.8
0°-60°	277.8	99.9
0°-90°	278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	278.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3449	
5°	2484	176
15°	246	72
25°	44	22
35°	8	5
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3448.7
1°	3396.0
2°	3267.5
3°	3062.6
4°	2794.8
5°	2483.6
6°	2132.7
7°	1751.9
8°	1365.8
9°	1004.7
10°	714.8
11°	512.3
12°	385.2
13°	313.7
14°	274.5
15°	246.0
17.5°	151.8
20°	102.5
22.5°	68.6
25°	44.5
27.5°	27.1
30°	16.4
32.5°	10.6
35°	7.7
37.5°	6.3
40°	4.8
42.5°	3.9
45°	2.9
47.5°	1.9
50°	1.4
52.5°	1.4
55°	1.0
57.5°	1.0
60°	0.5
62.5°	0.5
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)