

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: P264018

Luminaire Tested: **LD2B05D010 EU2B0510SP158035 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-787-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B0510SP158035 2LBD*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 729.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

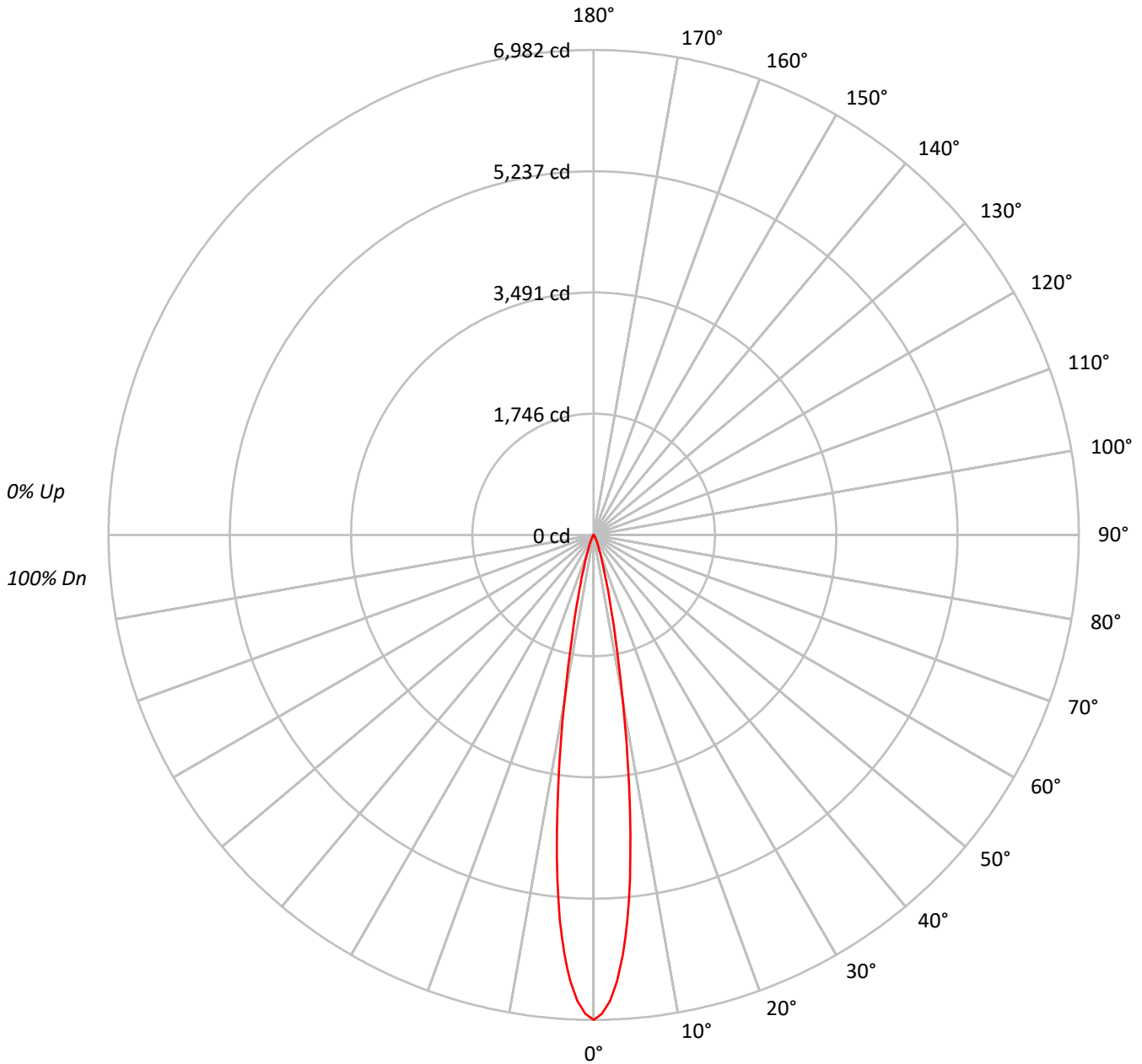
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3444603
5°	2760998
10°	1205040
15°	373421
20°	130206
25°	57485
30°	26035
35°	13551
40°	7728
45°	3628
50°	2303
55°	1290
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	58.0
10°-20°	231.9	31.8
20°-30°	52.8	7.2
30°-40°	15.2	2.1
40°-50°	4.7	0.6
50°-60°	1.4	0.2
60°-70°	0.6	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°	708.1	97.0
0°-40°	723.3	99.1
0°-60°	729.3	99.9
0°-90°	729.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6982	
5°	5575	423
15°	731	232
25°	106	53
35°	22	15
45°	5	5
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6981.9
1°	6895.0
2°	6714.4
3°	6434.3
4°	6049.2
5°	5575.0
6°	4993.7
7°	4344.2
8°	3666.2
9°	3010.0
10°	2405.4
11°	1893.8
12°	1490.8
13°	1173.1
14°	926.7
15°	731.1
16°	576.8
17°	459.2
18°	369.3
19°	300.4
20°	248.0
22.5°	160.3
25°	105.6
26°	89.1
27°	75.7
28°	63.7
29°	53.2
30°	45.7
32.5°	31.5
35°	22.5
37.5°	16.5
40°	12.0
42.5°	8.2
45°	5.2
47.5°	3.7
50°	3.0
52.5°	2.2
55°	1.5
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
67.5°	0.7



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CANDELA DISTRIBUTION (continued):

	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°







70°		0.0
72.5°		0.0



(END OF REPORT)