

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: P264440

Luminaire Tested: **LD2B05D010 EU2B0510SP159050 2LBDC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264440
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 EU2B0510SP159050 2LBDC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 635.1 lumens
Efficiency: N/A
Efficacy: 87.0 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

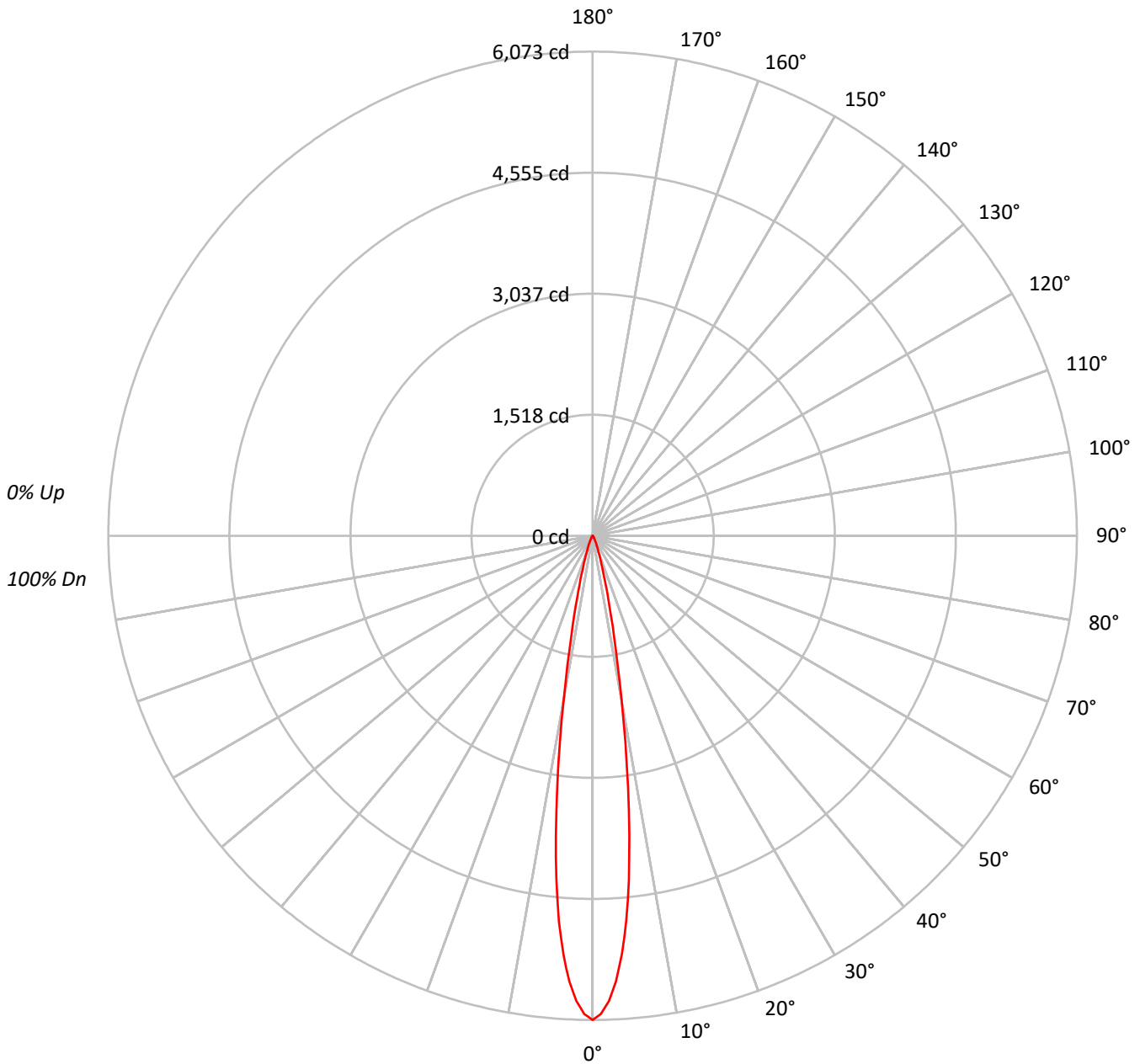
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2996334
5°	2401697
10°	1048235
15°	324847
20°	113248
25°	50027
30°	22616
35°	11745
40°	6698
45°	3210
50°	1996
55°	1118
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	58.0
10°-20°	201.7	31.8
20°-30°	46.0	7.2
30°-40°	13.2	2.1
40°-50°	4.1	0.6
50°-60°	1.2	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°	615.9	97.0
0°-40°	629.1	99.1
0°-60°	634.5	99.9
0°-90°	635.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6073	
5°	4850	368
15°	636	202
25°	92	46
35°	20	13
45°	5	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6073.3
1°	5997.7
2°	5840.6
3°	5596.9
4°	5262.0
5°	4849.5
6°	4343.8
7°	3778.8
8°	3189.1
9°	2618.3
10°	2092.4
11°	1647.3
12°	1296.8
13°	1020.5
14°	806.1
15°	636.0
16°	501.8
17°	399.5
18°	321.3
19°	261.3
20°	215.7
22.5°	139.5
25°	91.9
26°	77.5
27°	65.8
28°	55.4
29°	46.3
30°	39.7
32.5°	27.4
35°	19.5
37.5°	14.3
40°	10.4
42.5°	7.2
45°	4.6
47.5°	3.3
50°	2.6
52.5°	2.0
55°	1.3
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)