

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: P264435

Luminaire Tested: **LD2B05D010 EU2B0510SP159050 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264435
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 2LBD*GPH
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 605.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

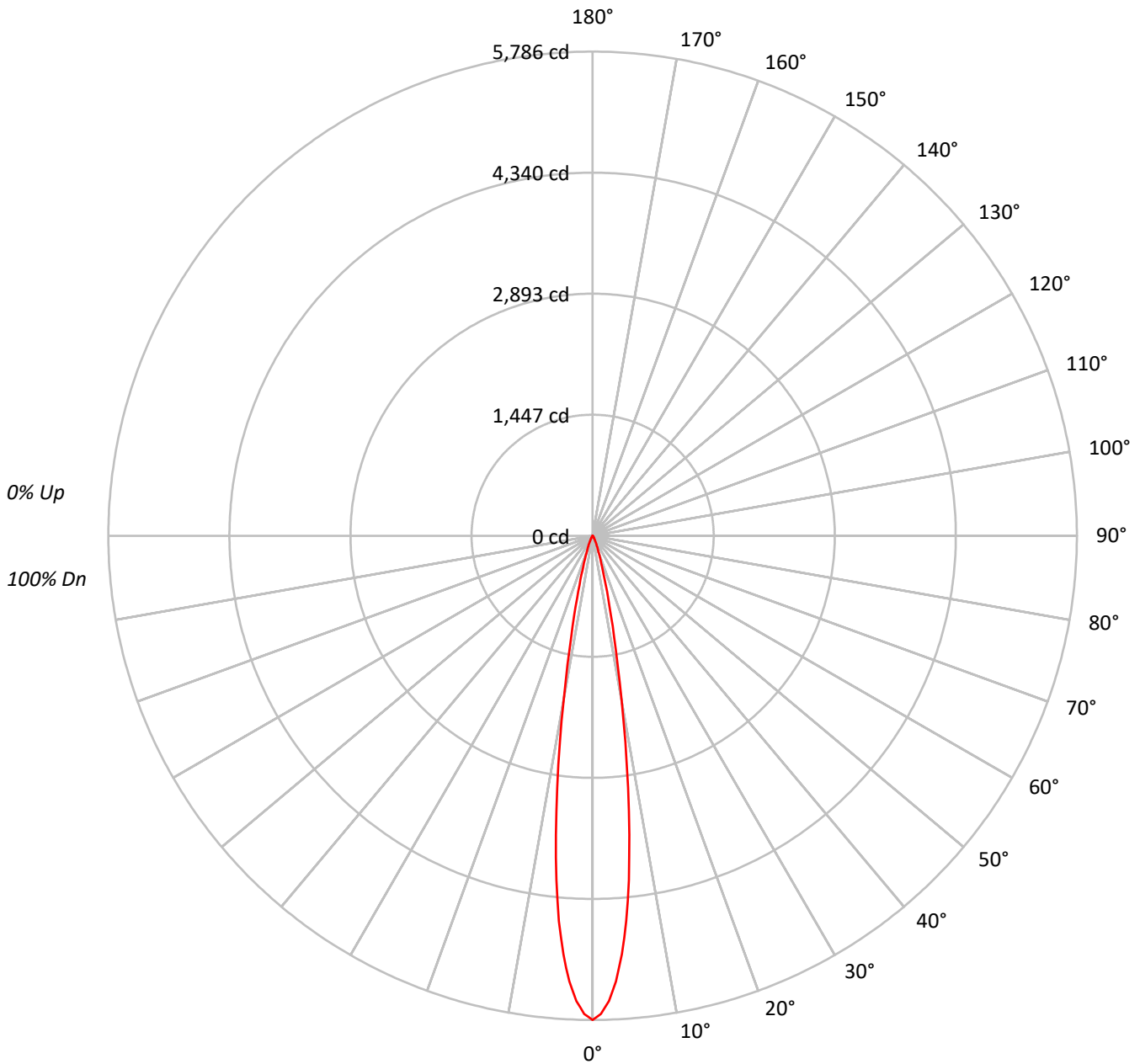
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	97	96	95	94	93	92	91	90	89																			
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	95	94	93	92	91	90	89	88	87																			
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94	93	92	91	90	89	88	87	86	85																			
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90	89	88	87	86	85	84	83																			
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	89	88	87	86	85	84	83	82	81																			
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	88	87	86	85	84	83	82	81	80																			
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	86	85	84	83	82	81	80	79	78																			
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	85	84	83	82	81	80	79	78	77																			
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	84	83	82	81	80	79	78	77	76	75																			
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83	82	81	80	79	78	77	76	75	74																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2854739
5°	2288236
10°	998739
15°	309524
20°	107893
25°	47632
30°	21591
35°	11202
40°	6376
45°	3000
50°	1919
55°	1032
60°	592
65°	700
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	58.0
10°-20°	192.2	31.8
20°-30°	43.8	7.2
30°-40°	12.6	2.1
40°-50°	3.9	0.6
50°-60°	1.2	0.2
60°-70°	0.5	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°	586.8	97.0
0°-40°	599.4	99.1
0°-60°	604.5	99.9
0°-90°	605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5786	
5°	4620	351
15°	606	192
25°	88	44
35°	19	13
45°	4	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5786.3
1°	5714.3
2°	5564.7
3°	5332.5
4°	5013.4
5°	4620.4
6°	4138.6
7°	3600.3
8°	3038.4
9°	2494.6
10°	1993.6
11°	1569.5
12°	1235.5
13°	972.3
14°	768.0
15°	606.0
16°	478.1
17°	380.6
18°	306.1
19°	249.0
20°	205.5
22.5°	132.9
25°	87.5
26°	73.9
27°	62.7
28°	52.8
29°	44.1
30°	37.9
32.5°	26.1
35°	18.6
37.5°	13.7
40°	9.9
42.5°	6.8
45°	4.3
47.5°	3.1
50°	2.5
52.5°	1.9
55°	1.2
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6



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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)