

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: P263974

Luminaire Tested: **LD2B05D010 EU2B0510SP158030 2LBSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P263974
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 EU2B0510SP158030 2LBSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 713.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

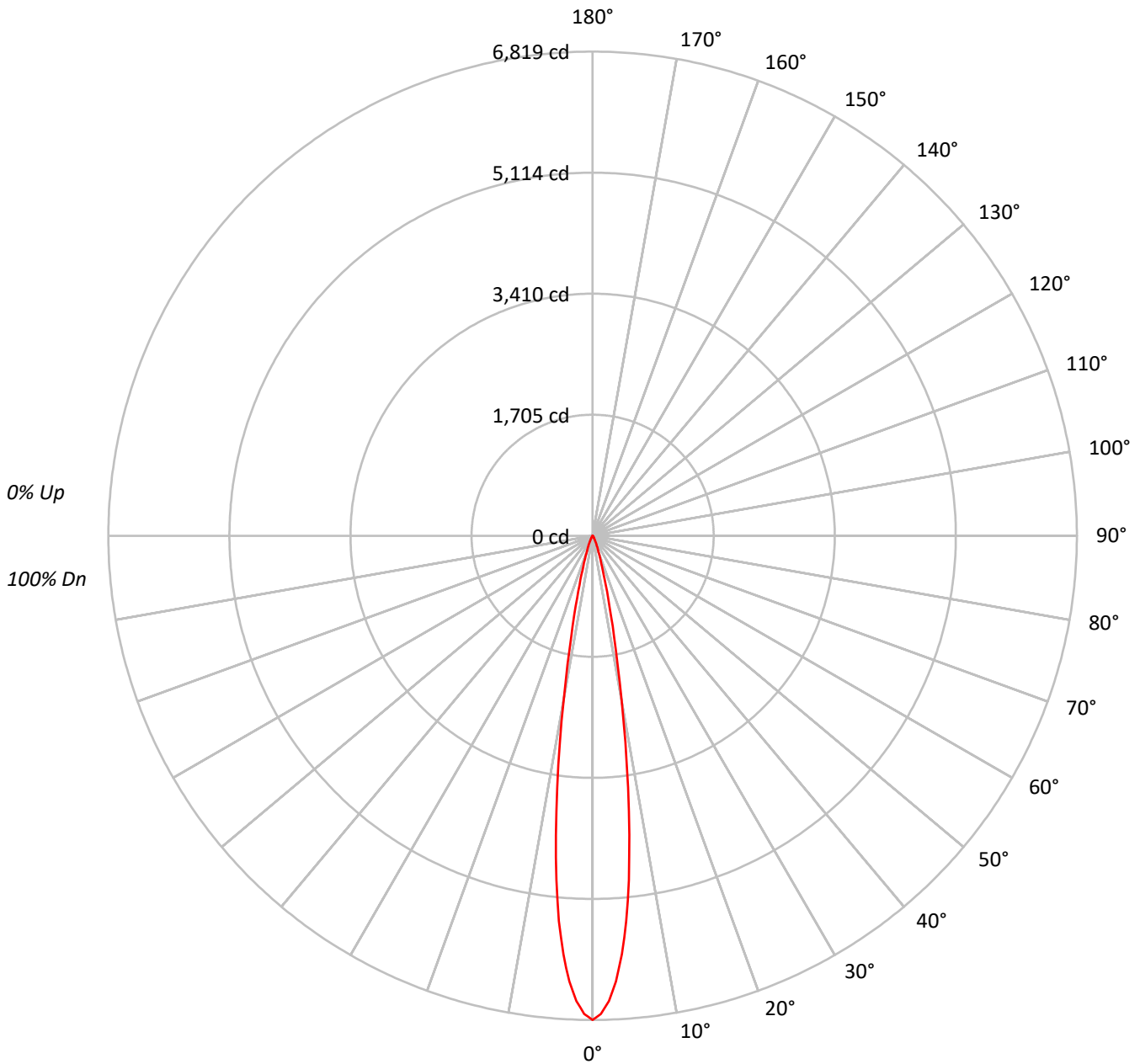
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263974

CATALOG NUMBER: LD2B05D010 EU2B0510SP158030 2LBSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P263974

CATALOG NUMBER: LD2B05D010 EU2B0510SP158030 2LBSQC*MB

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98	98	98	98
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	96	96	96
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94	94	94	94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	90	90	90
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	89	89	89
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	87	87	87
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	86	86	86
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85	85	85	85
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83	83	83	83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3364382
5°	2696715
10°	1176985
15°	364738
20°	127161
25°	56178
30°	25408
35°	13250
40°	7535
45°	3558
50°	2226
55°	1290
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P263974

CATALOG NUMBER: LD2B05D010 EU2B0510SP158030 2LBSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	58.0
10°-20°	226.5	31.8
20°-30°	51.6	7.2
30°-40°	14.8	2.1
40°-50°	4.6	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°	691.6	97.0
0°-40°	706.4	99.1
0°-60°	712.4	99.9
0°-90°	713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6819	
5°	5445	413
15°	714	226
25°	103	52
35°	22	15
45°	5	5
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P263974

CATALOG NUMBER: LD2B05D010 EU2B0510SP158030 2LBSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	6819.3
1°	6734.4
2°	6558.1
3°	6284.4
4°	5908.3
5°	5445.2
6°	4877.4
7°	4243.0
8°	3580.9
9°	2939.9
10°	2349.4
11°	1849.7
12°	1456.0
13°	1145.8
14°	905.1
15°	714.1
16°	563.4
17°	448.5
18°	360.7
19°	293.4
20°	242.2
22.5°	156.6
25°	103.2
26°	87.1
27°	73.9
28°	62.2
29°	51.9
30°	44.6
32.5°	30.7
35°	22.0
37.5°	16.1
40°	11.7
42.5°	8.0
45°	5.1
47.5°	3.7
50°	2.9
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



TEST NUMBER: P263974

CATALOG NUMBER: LD2B05D010 EU2B0510SP158030 2LBSQC*MB

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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)