

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: P223678

Luminaire Tested: **LD2B05D010 EU2B05SP159727 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223678
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 EU2B05SP159727 2LBDC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 310.0 lumens
Efficiency: N/A
Efficacy: 42.5 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

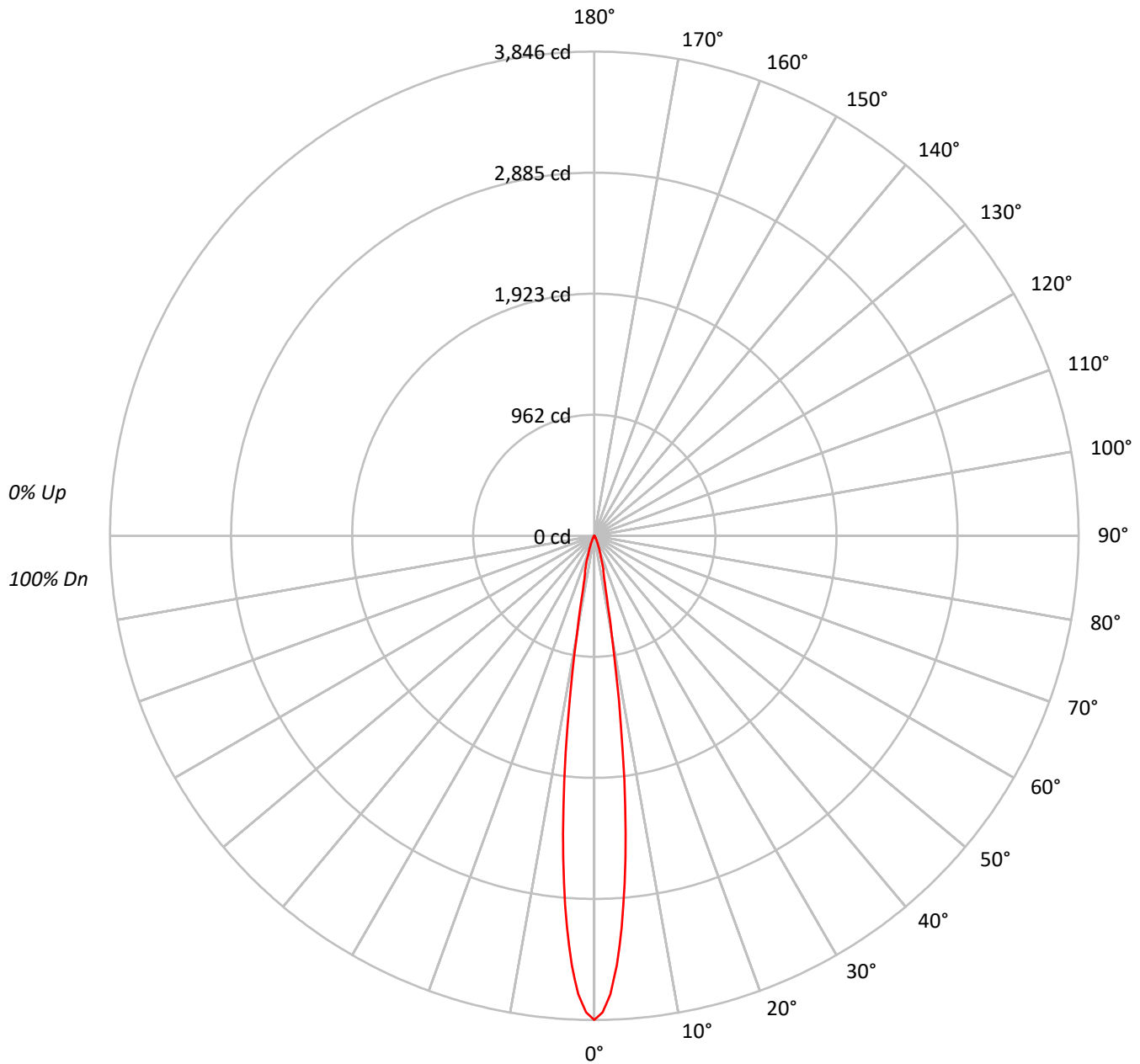
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223678

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P223678

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDC*MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	100		100
3	110	106	103	101	108	105	102	100	102	100	98		100	99	97		98
4	108	103	100	97	106	102	99	97	100	98	96		98	96	95		97
5	105	101	97	95	104	100	97	94	98	96	94		97	95	93		96
6	103	98	95	93	102	98	95	92	96	94	92		95	93	91		94
7	101	96	93	91	100	96	93	90	95	92	90		94	91	90		93
8	100	94	91	89	99	94	91	89	93	90	89		92	90	88		92
9	98	93	90	88	97	92	89	87	92	89	87		91	89	87		90
10	96	91	88	86	96	91	88	86	90	88	86		90	87	86		89

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1489616
5°	1076852
10°	313517
15°	109997
20°	47074
25°	21198
30°	8185
35°	4067
40°	2730
45°	1753
50°	964
55°	743
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223678

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	63.2
10°-20°	79.7	25.7
20°-30°	24.5	7.9
30°-40°	6.0	1.9
40°-50°	2.5	0.8
50°-60°	1.1	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°	300.2	96.8
0°-40°	306.2	98.8
0°-60°	309.8	99.9
0°-90°	310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	310.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3846	
5°	2770	196
15°	274	80
25°	50	24
35°	9	6
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223678

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDC*MMS

CANDELA DISTRIBUTION (FULL):

0°	
0°	3845.7
1°	3787.0
2°	3643.6
3°	3415.1
4°	3116.5
5°	2769.5
6°	2378.2
7°	1953.6
8°	1523.0
9°	1120.4
10°	797.1
11°	571.2
12°	429.5
13°	349.8
14°	306.1
15°	274.3
17.5°	169.2
20°	114.2
22.5°	76.5
25°	49.6
27.5°	30.2
30°	18.3
32.5°	11.9
35°	8.6
37.5°	7.0
40°	5.4
42.5°	4.3
45°	3.2
47.5°	2.2
50°	1.6
52.5°	1.6
55°	1.1
57.5°	1.1
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



TEST NUMBER: P223678

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDC*MMS

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)