

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: P223616

Luminaire Tested: **LD2B05D010 EU2B05SP159727 2LBDSQLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223616
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 2LBDSQLC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 292.0 lumens
Efficiency: N/A
Efficacy: 40.0 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

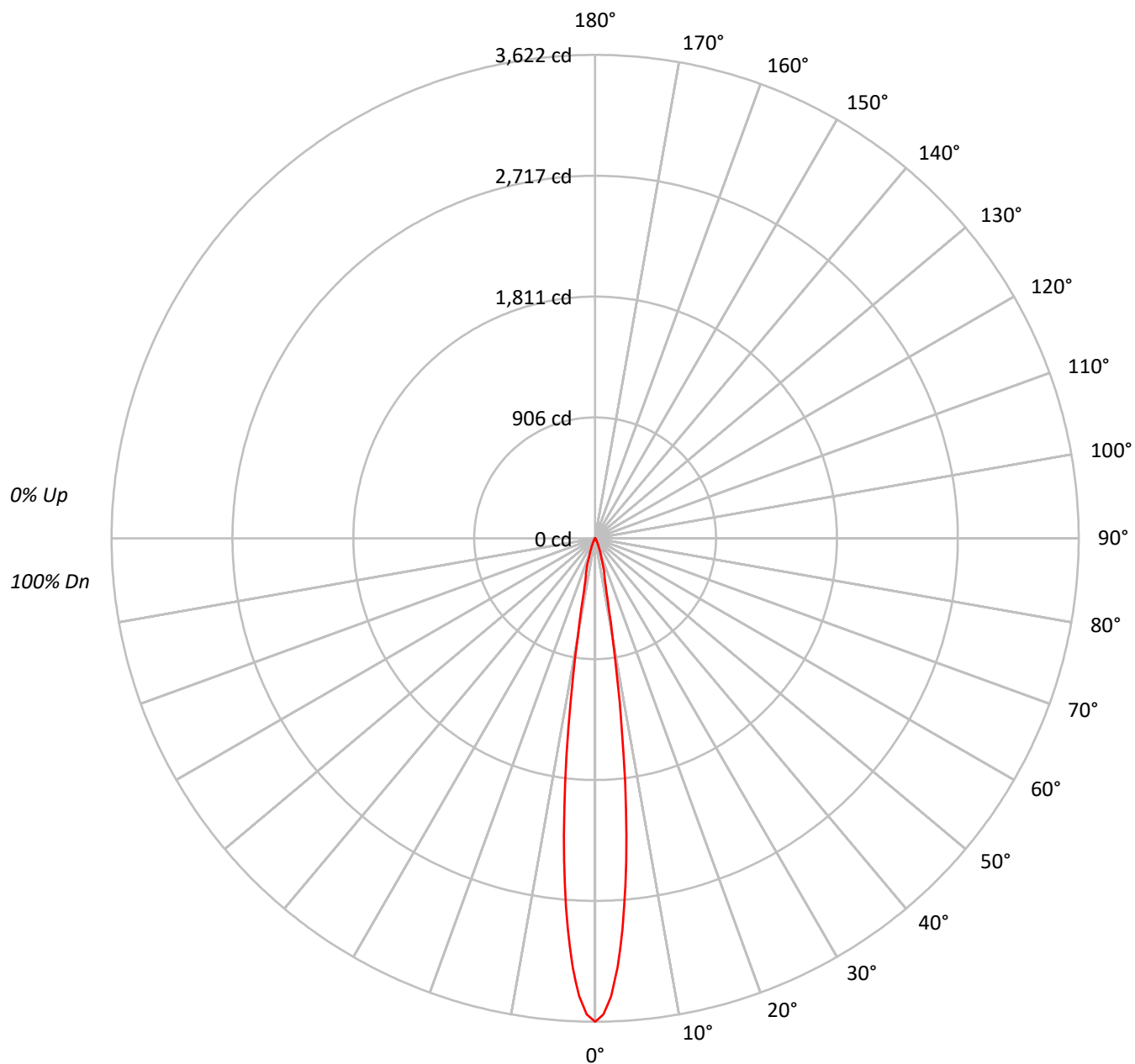
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223616

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQLC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P223616

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQLC*MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1403122
5°	1014329
10°	295306
15°	103621
20°	44353
25°	19959
30°	7738
35°	3830
40°	2579
45°	1643
50°	904
55°	675
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223616

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQLC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	63.2
10°-20°	75.1	25.7
20°-30°	23.1	7.9
30°-40°	5.7	1.9
40°-50°	2.4	0.8
50°-60°	1.0	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°	282.7	96.8
0°-40°	288.4	98.8
0°-60°	291.8	99.9
0°-90°	292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	292.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3622	
5°	2609	185
15°	258	75
25°	47	23
35°	8	6
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223616

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQLC*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3622.4
1°	3567.1
2°	3432.0
3°	3216.8
4°	2935.6
5°	2608.7
6°	2240.1
7°	1840.1
8°	1434.5
9°	1055.3
10°	750.8
11°	538.1
12°	404.6
13°	329.4
14°	288.3
15°	258.4
17.5°	159.4
20°	107.6
22.5°	72.1
25°	46.7
27.5°	28.4
30°	17.3
32.5°	11.2
35°	8.1
37.5°	6.6
40°	5.1
42.5°	4.1
45°	3.0
47.5°	2.0
50°	1.5
52.5°	1.5
55°	1.0
57.5°	1.0
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: P223616

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQLC*MW

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)