

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: P223785

Luminaire Tested: **LD2B10D010 EU2B10SP159040 2LBD*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223785
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: LD2B10D010 EU2B10SP159040 2LBD*WH
Description: 1000 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
SPUN ROUND TRIM WITH WHEAT HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 487.0 lumens
Efficiency: N/A
Efficacy: 47.3 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

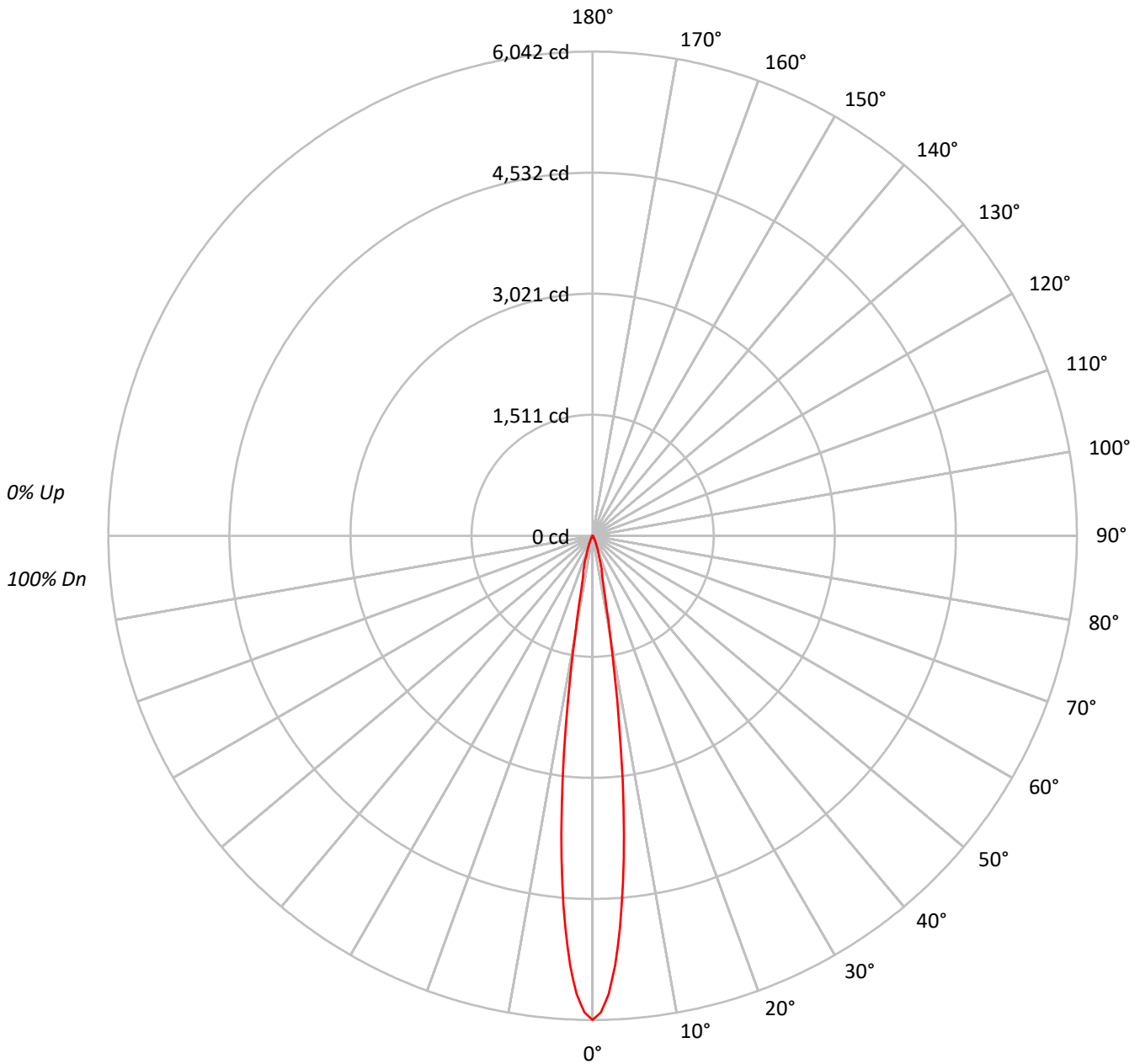
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223785

CATALOG NUMBER: LD2B10D010 EU2B10SP159040 2LBD*WH

Luminous Intensity Polar Plot





TEST NUMBER: P223785

CATALOG NUMBER: LD2B10D010 EU2B10SP159040 2LBD*WH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2340151
5°	1691702
10°	492478
15°	172795
20°	73991
25°	33294
30°	12881
35°	6384
40°	4298
45°	2794
50°	1507
55°	1148
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223785

CATALOG NUMBER: LD2B10D010 EU2B10SP159040 2LBD*WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	63.2
10°-20°	125.2	25.7
20°-30°	38.4	7.9
30°-40°	9.5	1.9
40°-50°	4.0	0.8
50°-60°	1.7	0.3
60°-70°	0.3	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°	471.6	96.8
0°-40°	481.0	98.8
0°-60°	486.7	99.9
0°-90°	487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	487.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6042	
5°	4351	308
15°	431	125
25°	78	38
35°	14	9
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223785

CATALOG NUMBER: LD2B10D010 EU2B10SP159040 2LBD*WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	6041.5
1°	5949.2
2°	5724.0
3°	5365.0
4°	4896.0
5°	4350.8
6°	3736.1
7°	3069.0
8°	2392.5
9°	1760.1
10°	1252.1
11°	897.4
12°	674.8
13°	549.5
14°	480.9
15°	430.9
17.5°	265.8
20°	179.5
22.5°	120.2
25°	77.9
27.5°	47.4
30°	28.8
32.5°	18.6
35°	13.5
37.5°	11.0
40°	8.5
42.5°	6.8
45°	5.1
47.5°	3.4
50°	2.5
52.5°	2.5
55°	1.7
57.5°	1.7
60°	0.8
62.5°	0.8
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: P223785

CATALOG NUMBER: LD2B10D010 EU2B10SP159040 2LBD*WH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)