

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: P224754

Luminaire Tested: **LD2B05D010 EU2B05FL409030 2LBDL**MW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409030 2LBDL*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 579.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

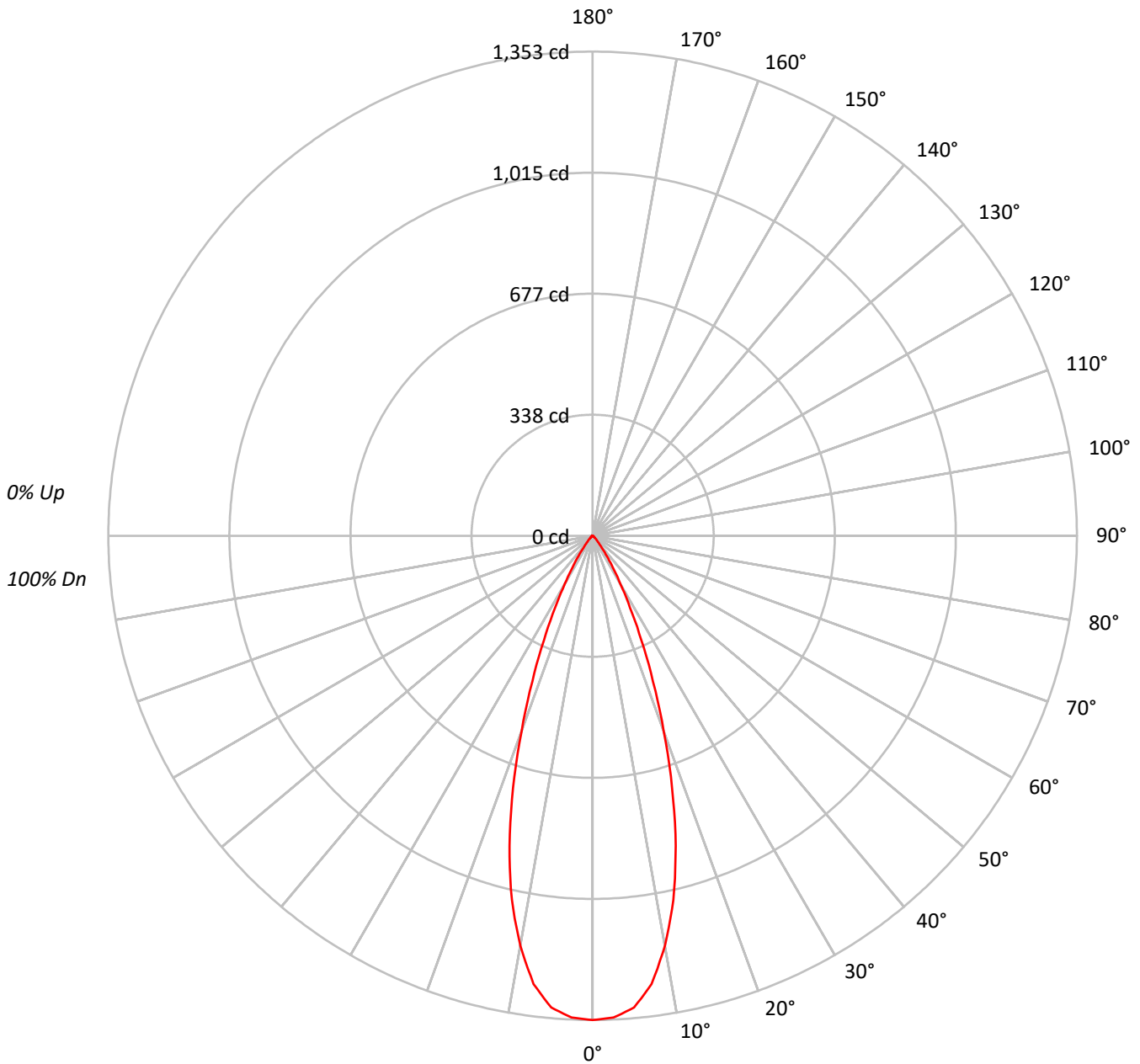
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224754

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDL*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224754

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDL*MW

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
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75			75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	524157
5°	514611
10°	457472
15°	359786
20°	239409
25°	137448
30°	69416
35°	32675
40°	13147
45°	6519
50°	3555
55°	2499
60°	2324
65°	1375
70°	1699
75°	1048
80°	1561
85°	0



TEST NUMBER: P224754

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDL*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	20.9
10°-20°	243.0	42.0
20°-30°	151.2	26.1
30°-40°	46.5	8.0
40°-50°	10.2	1.8
50°-60°	3.6	0.6
60°-70°	1.8	0.3
70°-80°	1.1	0.2
80°-90°	0.3	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°	515.4	89.0
0°-40°	561.9	97.1
0°-60°	575.8	99.5
0°-90°	579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	579.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1353	
5°	1324	121
15°	897	243
25°	322	151
35°	69	46
45°	12	10
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P224754

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDL*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1353.2
2.5°	1347.3
5°	1323.5
7.5°	1263.4
10°	1163.1
12.5°	1042.8
15°	897.2
17.5°	738.3
20°	580.8
22.5°	440.4
25°	321.6
27.5°	226.5
30°	155.2
32.5°	104.7
35°	69.1
37.5°	41.6
40°	26.0
42.5°	17.8
45°	11.9
47.5°	8.2
50°	5.9
52.5°	5.2
55°	3.7
57.5°	3.0
60°	3.0
62.5°	2.2
65°	1.5
67.5°	1.5
70°	1.5
72.5°	1.5
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)