

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: P224493

Luminaire Tested: **LD2B05D010 EU2B05FL409035 2LBDL*WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409035 2LBDL*WMH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.5 lumens
Efficiency: N/A
Efficacy: 84.6 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

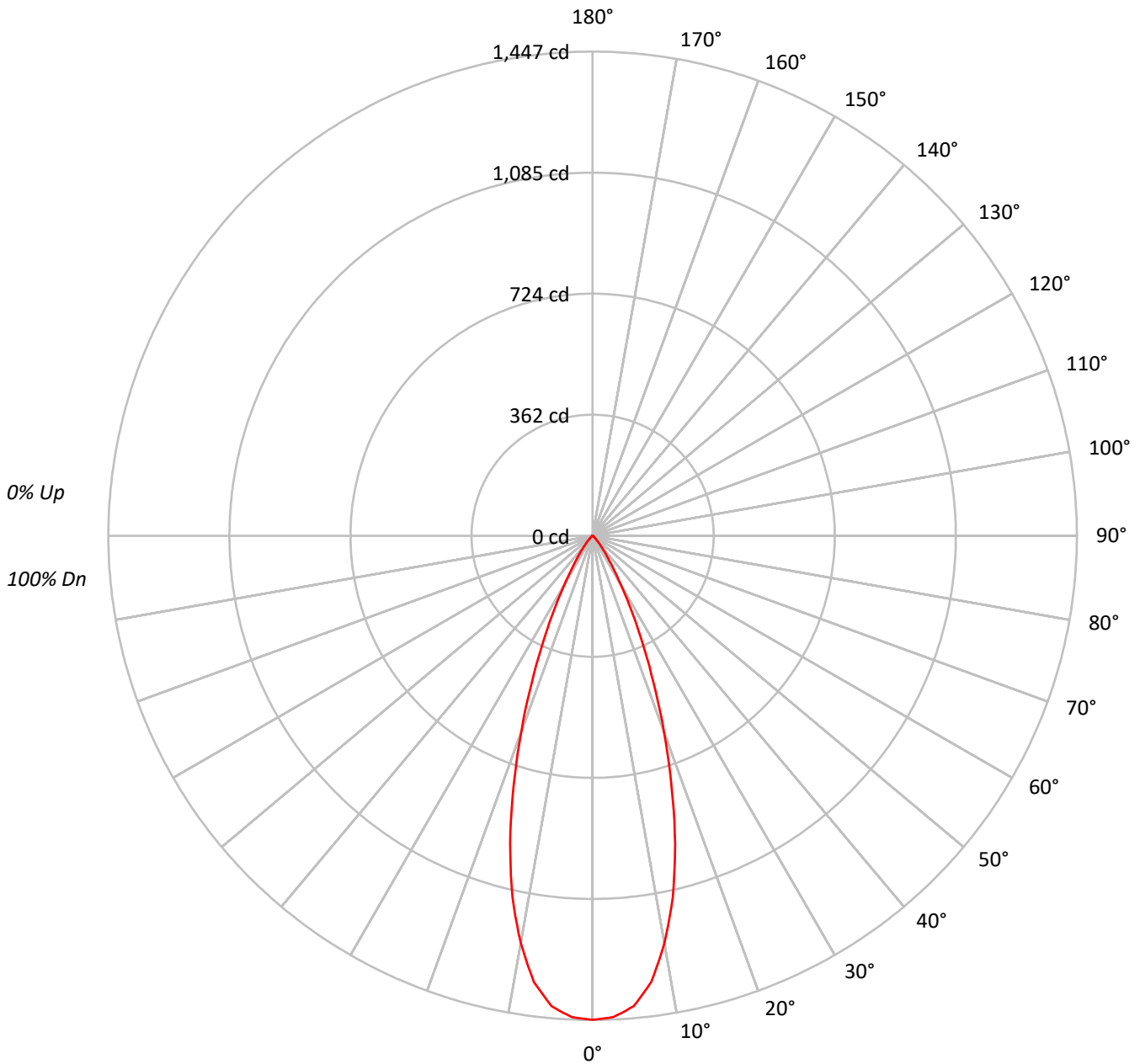
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224493

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDL*WMH

Luminous Intensity Polar Plot





TEST NUMBER: P224493

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDL*WMH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	560335
5°	548788
10°	486145
15°	382042
20°	256845
25°	149202
30°	74560
35°	35181
40°	16636
45°	7286
50°	3796
55°	2093
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224493

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDL*WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	20.9
10°-20°	258.4	41.8
20°-30°	163.3	26.5
30°-40°	51.1	8.3
40°-50°	11.9	1.9
50°-60°	3.1	0.5
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°	550.9	89.2
0°-40°	602.0	97.5
0°-60°	617.0	99.9
0°-90°	617.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1447	
5°	1411	129
15°	953	258
25°	349	163
35°	74	51
45°	13	12
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224493

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDL*WMH

CANDELA DISTRIBUTION (FULL):

0°	
0°	1446.6
2.5°	1439.6
5°	1411.4
7.5°	1344.8
10°	1236.0
12.5°	1106.9
15°	952.7
17.5°	784.4
20°	623.1
22.5°	474.4
25°	349.1
27.5°	246.6
30°	166.7
32.5°	111.2
35°	74.4
37.5°	50.1
40°	32.9
42.5°	20.4
45°	13.3
47.5°	9.4
50°	6.3
52.5°	4.7
55°	3.1
57.5°	2.3
60°	1.6
62.5°	1.6
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)