

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: P224709

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224709
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 EU2B05FL409024 2LBD*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 548.9 lumens
Efficiency: N/A
Efficacy: 75.2 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

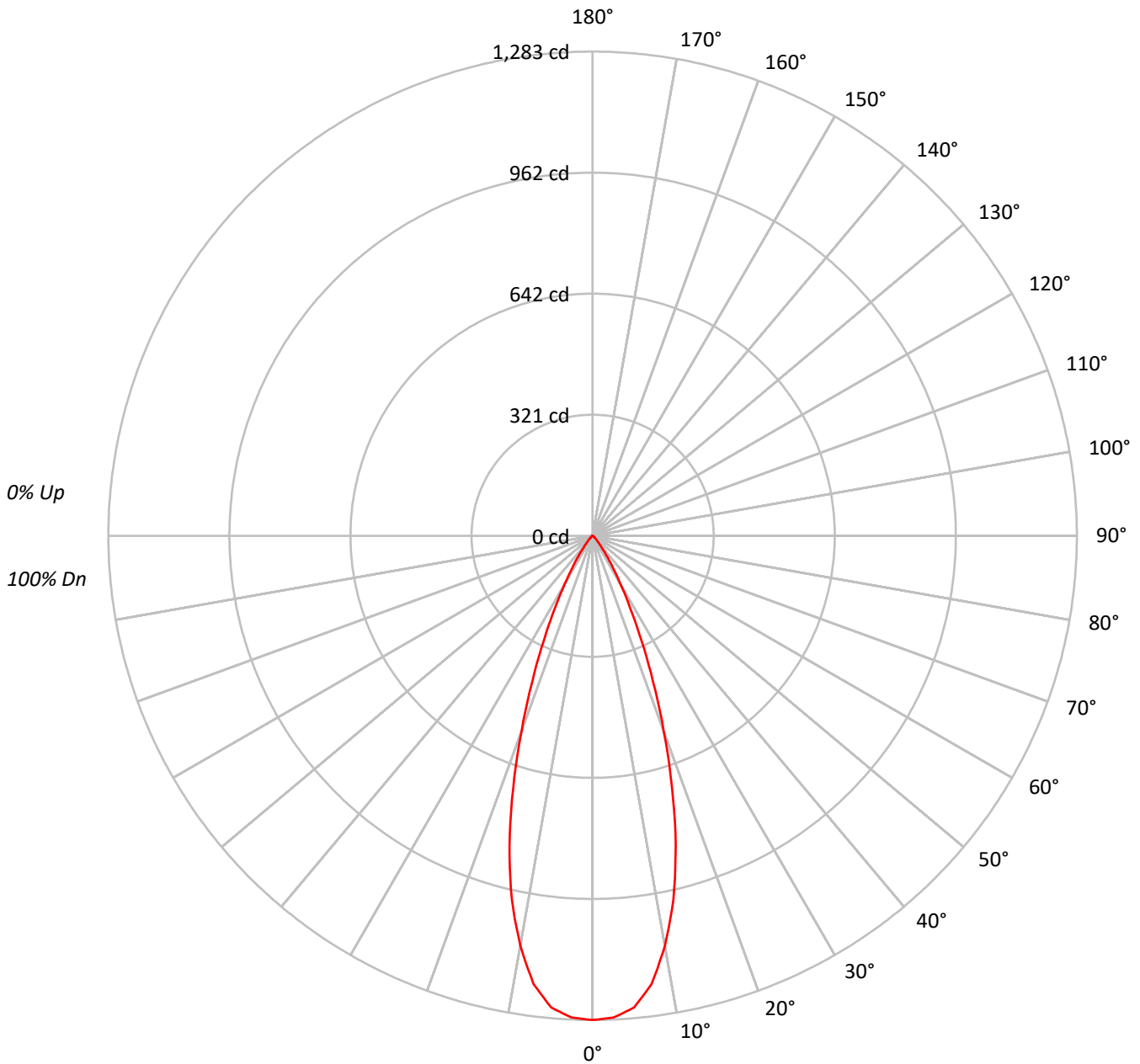
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224709

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224709

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*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°	497004
5°	487976
10°	433755
15°	341139
20°	227001
25°	130311
30°	65838
35°	30972
40°	12439
45°	6190
50°	3375
55°	2364
60°	2169
65°	1283
70°	1586
75°	1048
80°	1561
85°	0



TEST NUMBER: P224709

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	20.9
10°-20°	230.4	42.0
20°-30°	143.4	26.1
30°-40°	44.1	8.0
40°-50°	9.7	1.8
50°-60°	3.4	0.6
60°-70°	1.7	0.3
70°-80°	1.0	0.2
80°-90°	0.3	0.1
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°	488.7	89.0
0°-40°	532.8	97.1
0°-60°	545.9	99.4
0°-90°	548.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1283	
5°	1255	115
15°	851	230
25°	305	143
35°	66	44
45°	11	10
55°	4	3
65°	1	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P224709

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1283.1
2.5°	1277.5
5°	1255.0
7.5°	1197.9
10°	1102.8
12.5°	988.8
15°	850.7
17.5°	700.0
20°	550.7
22.5°	417.6
25°	304.9
27.5°	214.8
30°	147.2
32.5°	99.3
35°	65.5
37.5°	39.4
40°	24.6
42.5°	16.9
45°	11.3
47.5°	7.7
50°	5.6
52.5°	4.9
55°	3.5
57.5°	2.8
60°	2.8
62.5°	2.1
65°	1.4
67.5°	1.4
70°	1.4
72.5°	1.4
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)