

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: P224269

Luminaire Tested: **LD2B05D010 EU2B05FL408035 2LBDSQLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL408035 2LBDSQLC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

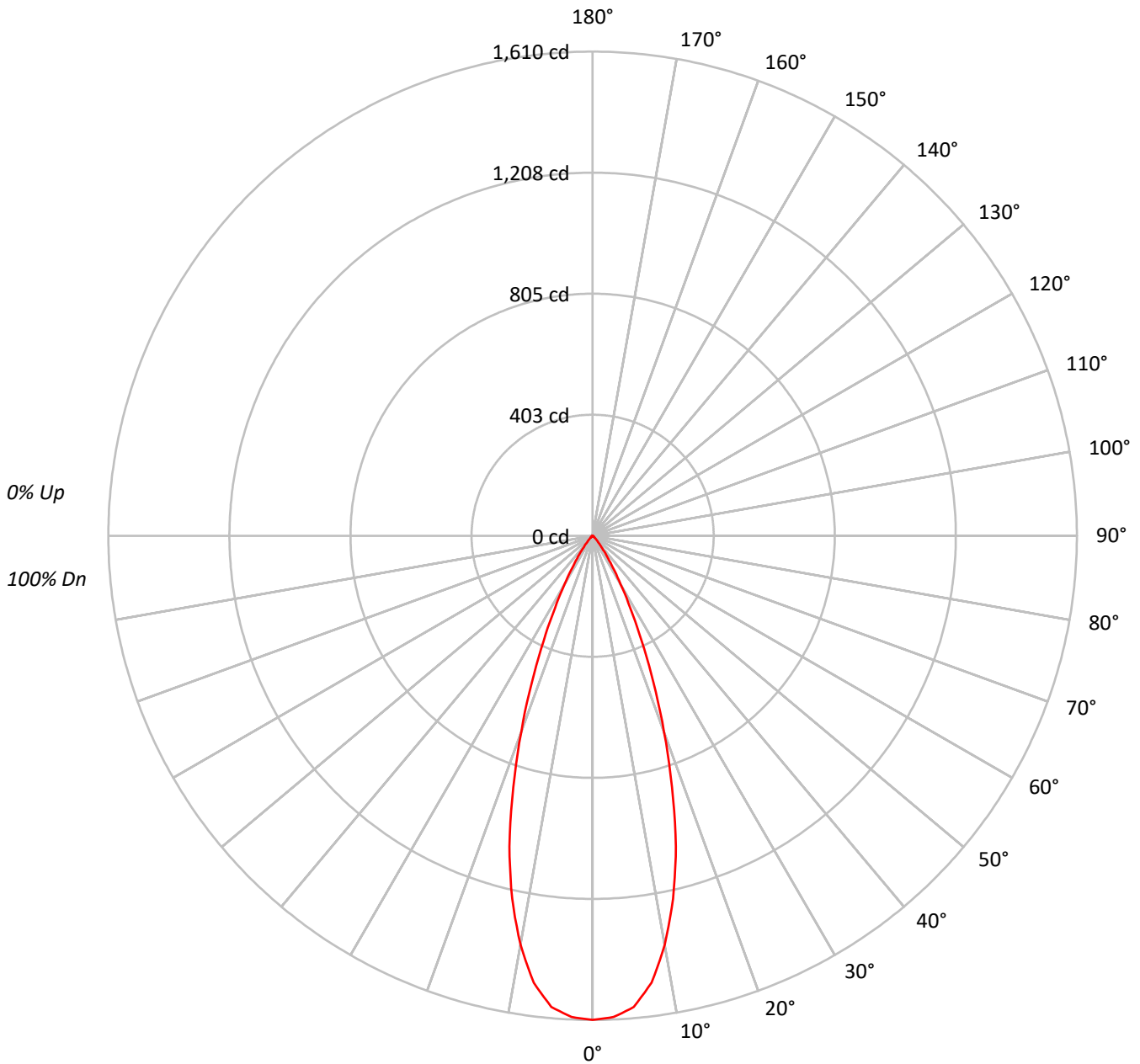
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224269

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDSQLC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P224269

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDSQLC*MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	623550
5°	611545
10°	543256
15°	428720
20°	285947
25°	164588
30°	83371
35°	39058
40°	15978
45°	7231
50°	3736
55°	2364
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224269

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDSQLC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	21.0
10°-20°	288.9	42.2
20°-30°	181.0	26.4
30°-40°	56.0	8.2
40°-50°	11.6	1.7
50°-60°	3.2	0.5
60°-70°	0.4	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°	613.8	89.6
0°-40°	669.8	97.8
0°-60°	684.6	99.9
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1610	
5°	1573	144
15°	1069	289
25°	385	181
35°	83	56
45°	13	12
55°	4	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224269

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDSQLC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1609.8
2.5°	1601.8
5°	1572.8
7.5°	1499.0
10°	1381.2
12.5°	1236.1
15°	1069.1
17.5°	876.5
20°	693.7
22.5°	527.5
25°	385.1
27.5°	270.8
30°	186.4
32.5°	124.8
35°	82.6
37.5°	51.9
40°	31.6
42.5°	20.2
45°	13.2
47.5°	8.8
50°	6.2
52.5°	4.4
55°	3.5
57.5°	2.6
60°	1.8
62.5°	0.9
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)