

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: P224289

Luminaire Tested: **LD2B05D010 EU2B05FL408030 2LBDSQLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224289
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 EU2B05FL408030 2LBDSQLC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 678.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

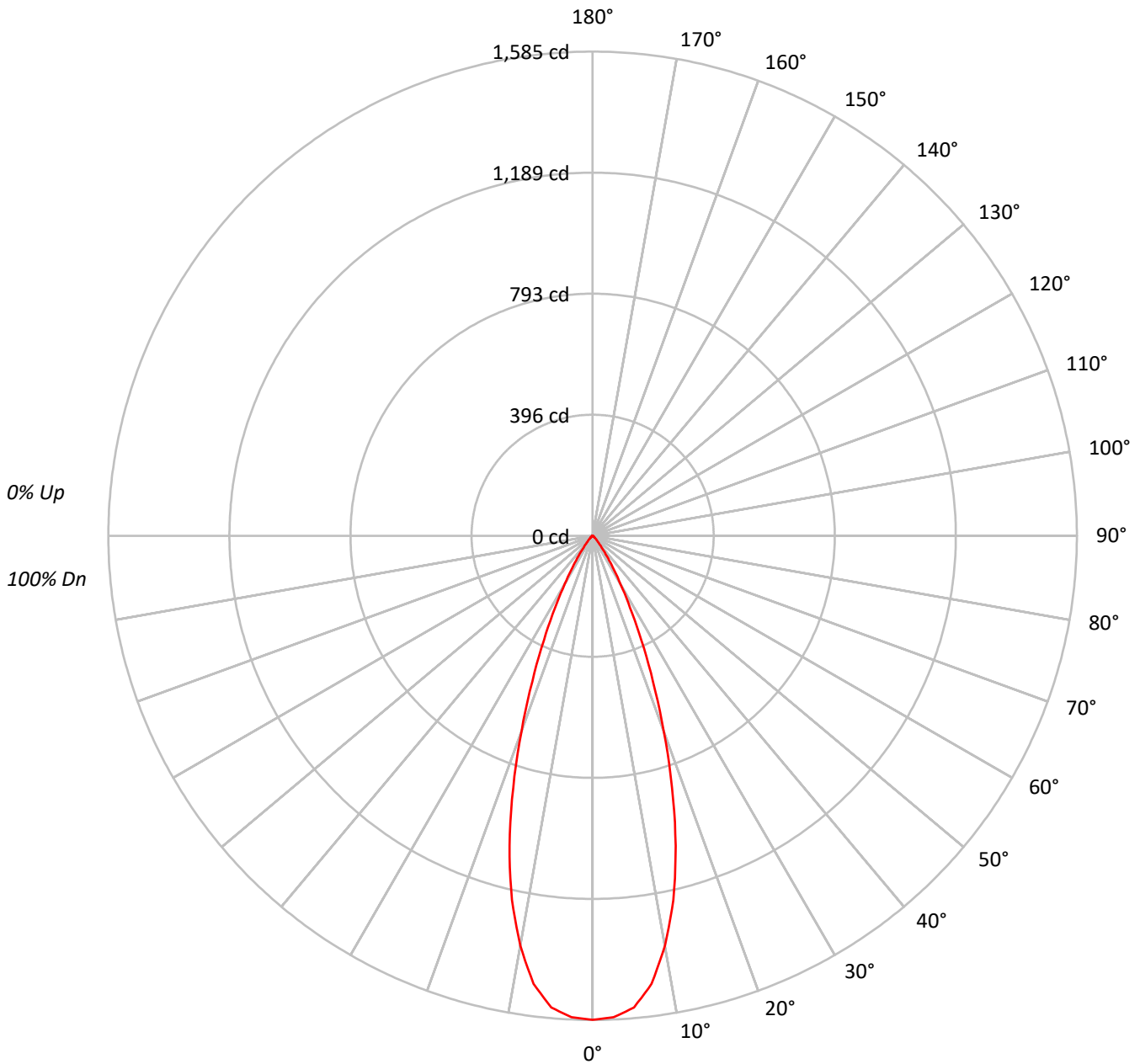
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91																			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75																			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72																			
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69																			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66																			
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	613788
5°	602602
10°	535704
15°	421301
20°	280341
25°	160955
30°	81313
35°	38255
40°	15372
45°	7614
50°	4218
55°	2904
60°	2711
65°	1558
70°	1925
75°	1347
80°	2008
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	20.9
10°-20°	284.6	42.0
20°-30°	177.1	26.1
30°-40°	54.4	8.0
40°-50°	12.0	1.8
50°-60°	4.3	0.6
60°-70°	2.1	0.3
70°-80°	1.3	0.2
80°-90°	0.4	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°	603.6	89.0
0°-40°	658.0	97.1
0°-60°	674.2	99.4
0°-90°	678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1585	
5°	1550	142
15°	1051	285
25°	377	177
35°	81	54
45°	14	12
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1584.6
2.5°	1577.7
5°	1549.8
7.5°	1479.4
10°	1362.0
12.5°	1221.1
15°	1050.6
17.5°	864.5
20°	680.1
22.5°	515.7
25°	376.6
27.5°	265.3
30°	181.8
32.5°	122.6
35°	80.9
37.5°	48.7
40°	30.4
42.5°	20.9
45°	13.9
47.5°	9.6
50°	7.0
52.5°	6.1
55°	4.3
57.5°	3.5
60°	3.5
62.5°	2.6
65°	1.7
67.5°	1.7
70°	1.7
72.5°	1.7
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)