

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: P224281

Luminaire Tested: **LD2B05D010 EU2B05FL409730 2LBDSQLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224281
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 EU2B05FL409730 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: 502.0 lumens
Efficiency: N/A
Efficacy: 68.8 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

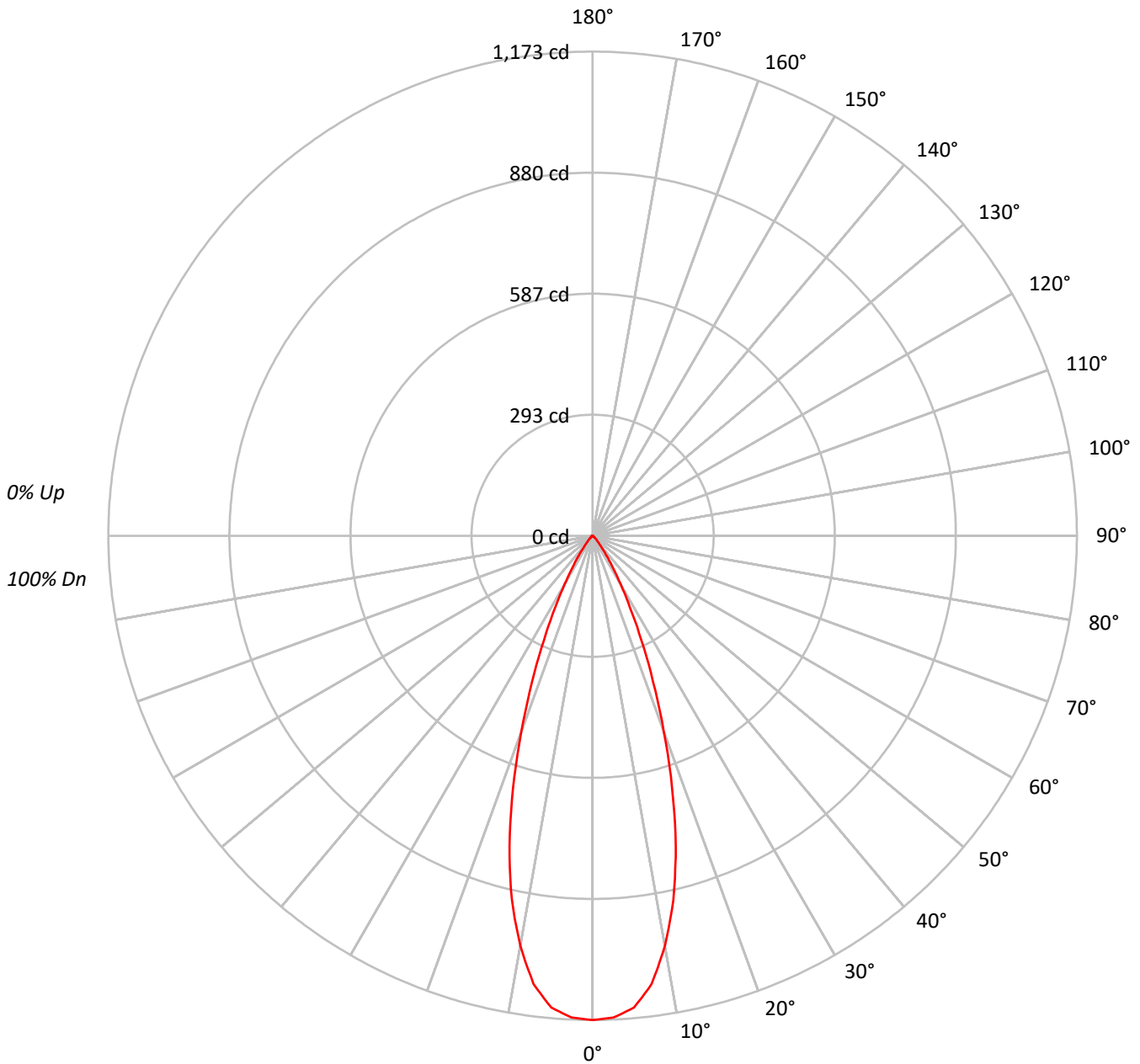
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	454473
5°	446177
10°	396625
15°	311946
20°	207586
25°	119156
30°	60202
35°	28324
40°	11377
45°	5642
50°	3134
55°	2161
60°	2014
65°	1192
70°	1472
75°	898
80°	1338
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	20.9
10°-20°	210.7	42.0
20°-30°	131.1	26.1
30°-40°	40.3	8.0
40°-50°	8.9	1.8
50°-60°	3.2	0.6
60°-70°	1.6	0.3
70°-80°	0.9	0.2
80°-90°	0.2	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°	446.9	89.0
0°-40°	487.2	97.1
0°-60°	499.2	99.5
0°-90°	502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1173	
5°	1148	105
15°	778	211
25°	279	131
35°	60	40
45°	10	9
55°	3	3
65°	1	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1173.3
2.5°	1168.1
5°	1147.5
7.5°	1095.4
10°	1008.4
12.5°	904.1
15°	777.9
17.5°	640.1
20°	503.6
22.5°	381.9
25°	278.8
27.5°	196.4
30°	134.6
32.5°	90.8
35°	59.9
37.5°	36.1
40°	22.5
42.5°	15.5
45°	10.3
47.5°	7.1
50°	5.2
52.5°	4.5
55°	3.2
57.5°	2.6
60°	2.6
62.5°	1.9
65°	1.3
67.5°	1.3
70°	1.3
72.5°	1.3
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)