

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: P225172

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409050 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 639.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

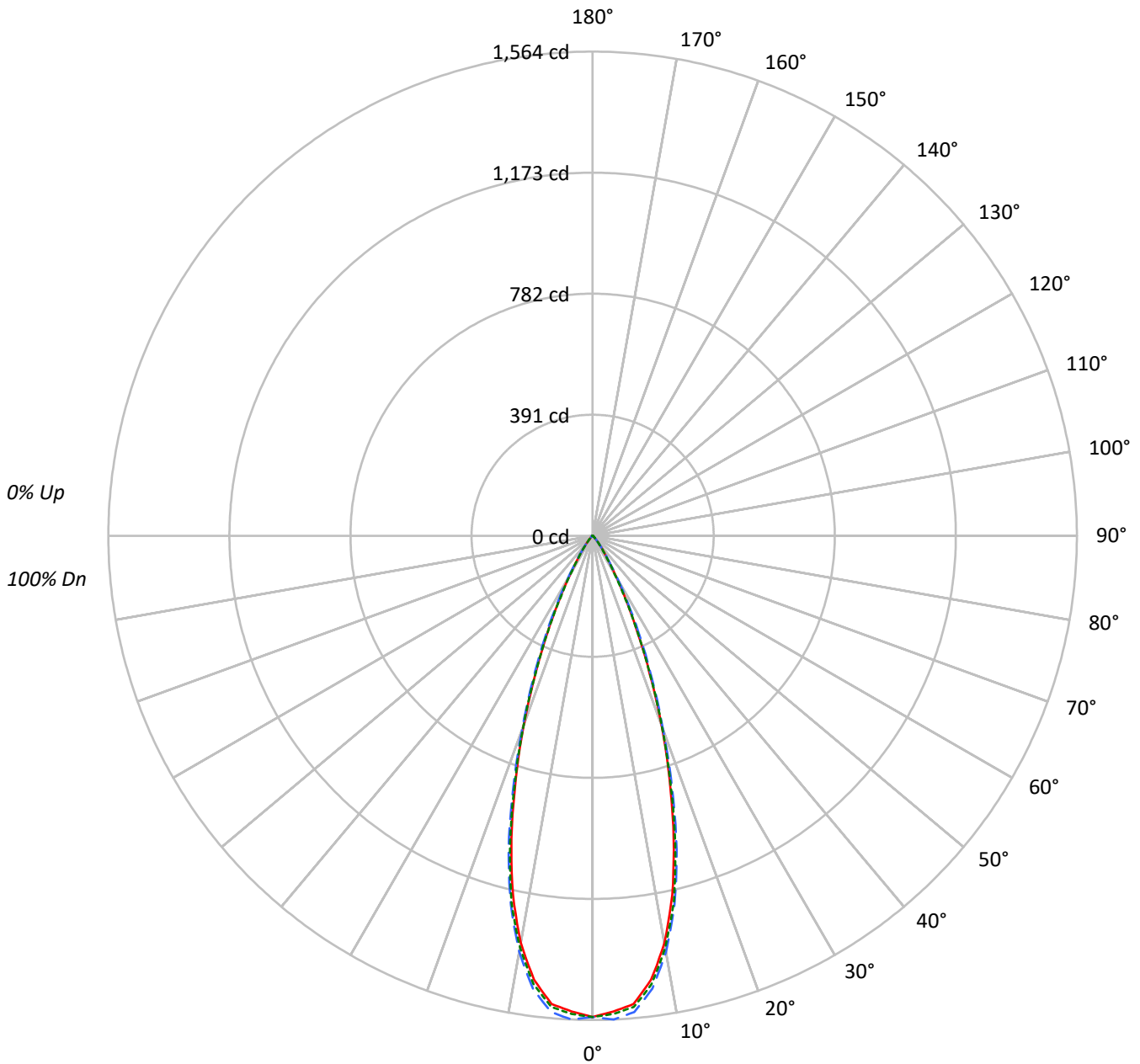
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	602168	602168	602168
5°	590276	600424	594009
10°	525281	536569	531102
15°	405862	420499	413161
20°	267727	273457	269170
25°	146039	156082	146765
30°	65704	72726	63020
35°	28372	29176	25913
40°	11883	12287	10972
45°	4766	5259	5259
50°	2109	2591	2591
55°	1148	1148	1756
60°	697	697	697
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	22.0
10°-20°	279.7	43.8
20°-30°	165.2	25.9
30°-40°	43.0	6.7
40°-50°	8.5	1.3
50°-60°	1.9	0.3
60°-70°	0.2	0.0
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°	585.5	91.6
0°-40°	628.5	98.4
0°-60°	638.8	100.0
0°-90°	639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1518	1530	1544	1534	1528	139
15°	1012	1035	1049	1033	1030	275
25°	342	353	365	351	343	161
35°	60	63	62	61	55	42
45°	9	10	10	10	10	8
55°	2	2	2	2	3	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.6	1554.6	1554.6	1554.6	1554.6
2.5°	1538.1	1553.8	1564.2	1555.5	1545.9
5°	1518.1	1530.3	1544.2	1533.8	1527.7
7.5°	1446.8	1465.1	1475.5	1470.3	1460.7
10°	1335.5	1349.4	1364.2	1359.0	1350.3
12.5°	1188.6	1207.7	1221.6	1209.4	1211.2
15°	1012.1	1034.7	1048.6	1032.9	1030.3
17.5°	825.1	842.5	852.1	842.5	835.6
20°	649.5	659.9	663.4	659.1	653.0
22.5°	480.0	491.3	501.7	491.3	483.4
25°	341.7	353.0	365.2	351.3	343.4
27.5°	230.4	237.4	247.8	234.8	223.5
30°	146.9	154.8	162.6	153.0	140.9
32.5°	93.0	98.3	99.1	97.4	86.9
35°	60.0	62.6	61.7	60.9	54.8
37.5°	38.3	38.3	39.1	38.3	34.8
40°	23.5	25.2	24.3	23.5	21.7
42.5°	13.9	15.7	14.8	14.8	13.9
45°	8.7	10.4	9.6	9.6	9.6
47.5°	6.1	7.0	6.1	6.1	7.0
50°	3.5	4.3	4.3	4.3	4.3
52.5°	2.6	2.6	2.6	2.6	3.5
55°	1.7	1.7	1.7	1.7	2.6
57.5°	1.7	1.7	0.9	0.9	1.7
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)