

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: P225242

Luminaire Tested: **LD2B05D010 EU2B05FL408035 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225242  
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 EU2B05FL408035 2LBDSQLC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 677.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

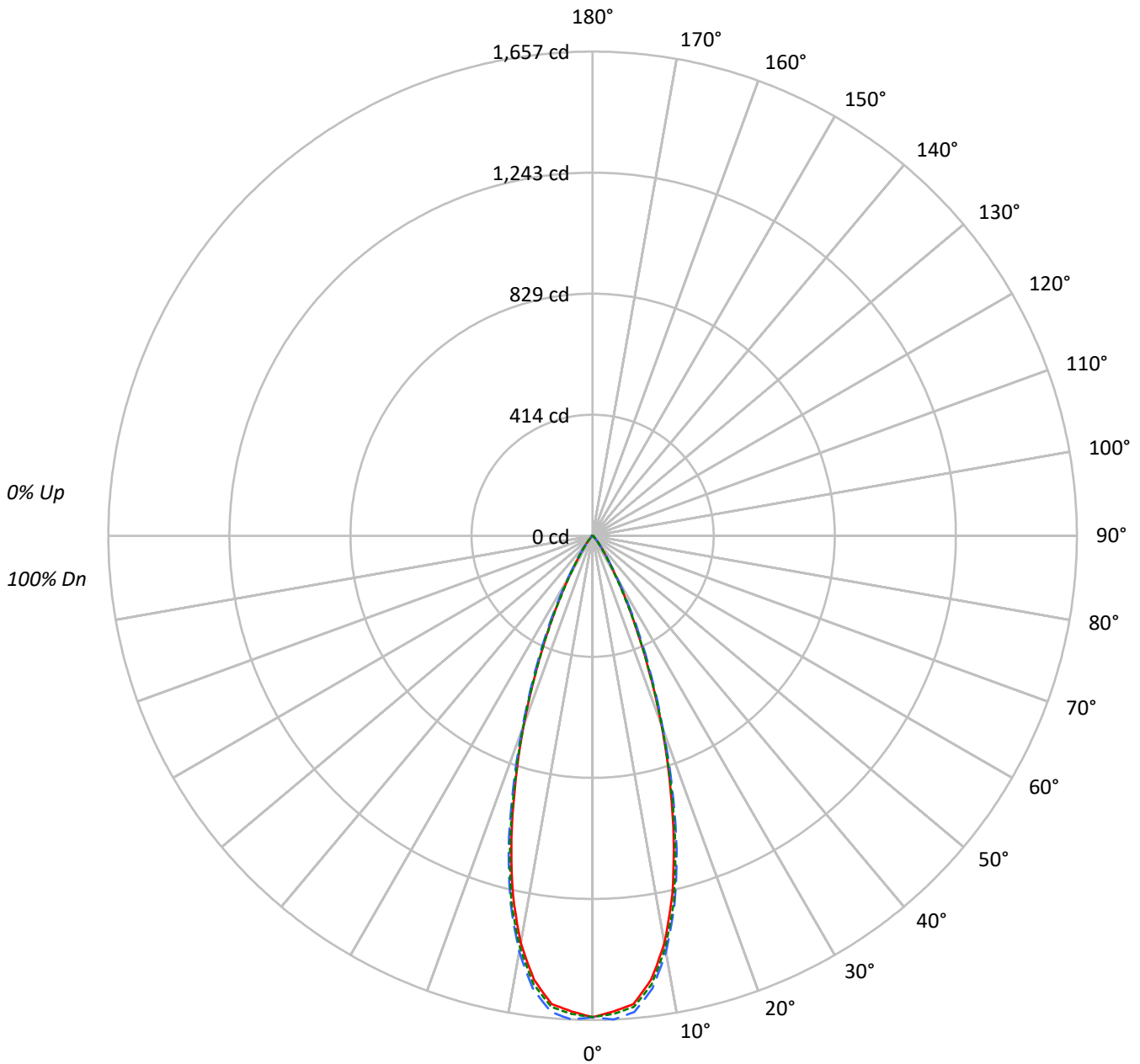
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	637998	637998	637998
5°	625387	636119	629314
10°	556510	568467	562686
15°	430003	445482	437743
20°	283638	289739	285163
25°	154715	165357	155527
30°	69640	77064	66732
35°	30074	30925	27426
40°	12591	13046	11630
45°	5040	5533	5533
50°	2230	2772	2772
55°	1216	1216	1891
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°	148.9	22.0
10°-20°	296.4	43.8
20°-30°	175.1	25.9
30°-40°	45.6	6.7
40°-50°	9.0	1.3
50°-60°	2.0	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°	620.3	91.6
0°-40°	665.9	98.4
0°-60°	676.8	100.0
0°-90°	677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1608	1621	1636	1625	1618	147
15°	1072	1096	1111	1094	1092	291
25°	362	374	387	372	364	171
35°	64	66	65	64	58	44
45°	9	11	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°	1647.1	1647.1	1647.1	1647.1	1647.1
2.5°	1629.6	1646.2	1657.2	1648.0	1637.9
5°	1608.4	1621.3	1636.0	1625.0	1618.5
7.5°	1532.8	1552.2	1563.2	1557.7	1547.6
10°	1414.9	1429.7	1445.3	1439.8	1430.6
12.5°	1259.3	1279.5	1294.3	1281.4	1283.2
15°	1072.3	1096.2	1110.9	1094.4	1091.6
17.5°	874.2	892.6	902.8	892.6	885.3
20°	688.1	699.2	702.9	698.3	691.8
22.5°	508.5	520.5	531.5	520.5	512.2
25°	362.0	374.0	386.9	372.2	363.9
27.5°	244.1	251.5	262.5	248.7	236.7
30°	155.7	164.0	172.3	162.1	149.2
32.5°	98.6	104.1	105.0	103.2	92.1
35°	63.6	66.3	65.4	64.5	58.0
37.5°	40.5	40.5	41.5	40.5	36.8
40°	24.9	26.7	25.8	24.9	23.0
42.5°	14.7	16.6	15.7	15.7	14.7
45°	9.2	11.1	10.1	10.1	10.1
47.5°	6.4	7.4	6.4	6.4	7.4
50°	3.7	4.6	4.6	4.6	4.6
52.5°	2.8	2.8	2.8	2.8	3.7
55°	1.8	1.8	1.8	1.8	2.8
57.5°	1.8	1.8	0.9	0.9	1.8
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)