

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: P225217

Luminaire Tested: **LD2B05D010 EU2B05FL409035 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225217  
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 EU2B05FL409035 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: 561.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 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

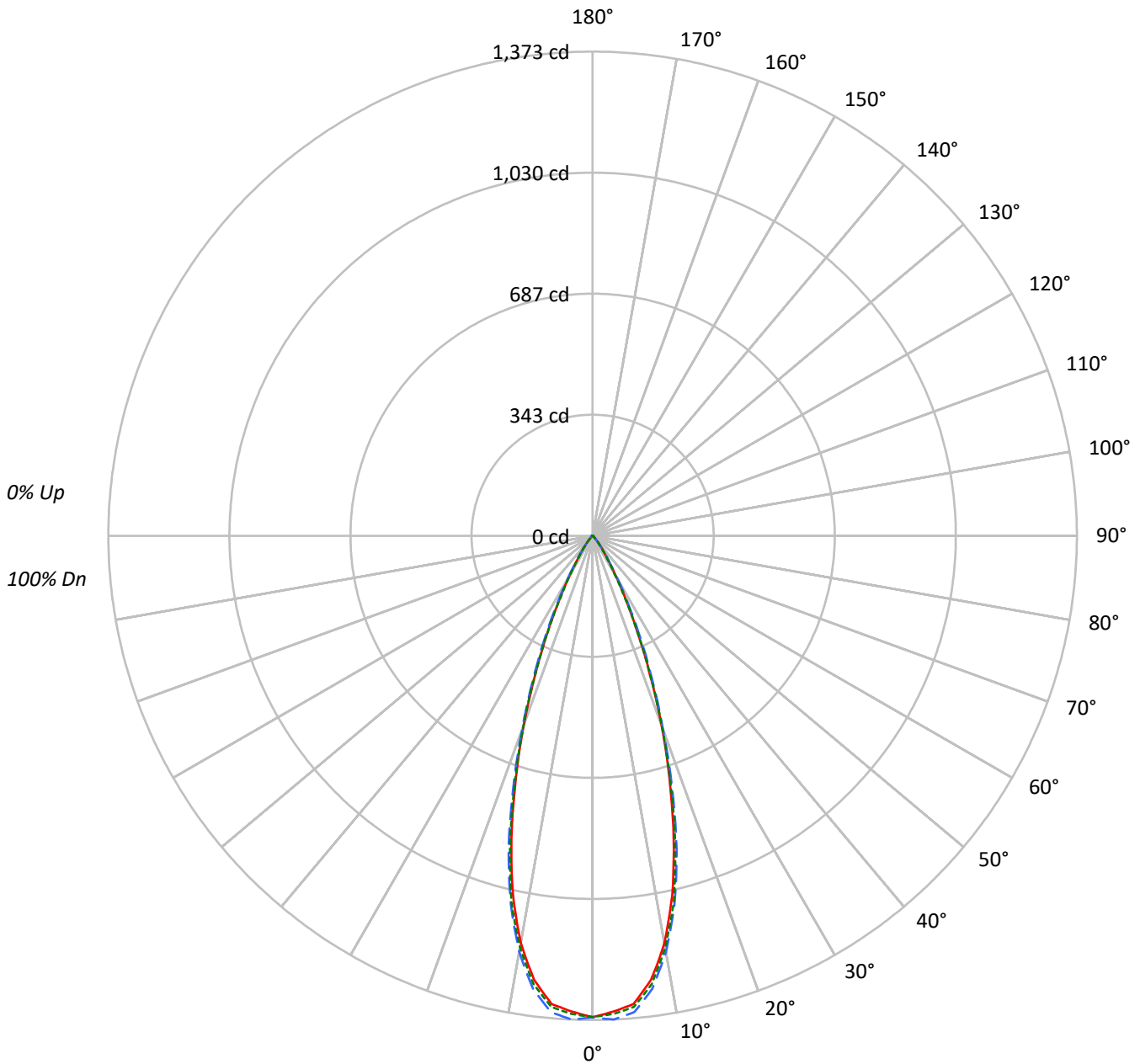
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96					96			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91					91			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87					87			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83					83			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80					80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77					77			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73					73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71					71			
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68					68			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65					65			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	528689	528689	528689
5°	518227	527131	521493
10°	461169	471081	466283
15°	356297	369170	362754
20°	235039	240068	236317
25°	128217	137021	128858
30°	57698	63825	55327
35°	24920	25629	22745
40°	10416	10821	9658
45°	4163	4601	4601
50°	1868	2290	2290
55°	1013	1013	1553
60°	620	620	620
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°	123.4	22.0
10°-20°	245.6	43.8
20°-30°	145.1	25.9
30°-40°	37.8	6.7
40°-50°	7.5	1.3
50°-60°	1.6	0.3
60°-70°	0.1	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°	514.0	91.6
0°-40°	551.8	98.4
0°-60°	560.9	100.0
0°-90°	561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1333	1344	1356	1346	1341	122
15°	888	908	921	907	905	241
25°	300	310	321	308	302	141
35°	53	55	54	53	48	37
45°	8	9	8	8	8	7
55°	2	2	2	2	2	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°	1364.9	1364.9	1364.9	1364.9	1364.9
2.5°	1350.4	1364.1	1373.3	1365.6	1357.2
5°	1332.8	1343.5	1355.7	1346.5	1341.2
7.5°	1270.2	1286.2	1295.4	1290.8	1282.4
10°	1172.5	1184.7	1197.7	1193.1	1185.5
12.5°	1043.5	1060.3	1072.5	1061.8	1063.3
15°	888.5	908.4	920.6	906.9	904.6
17.5°	724.4	739.7	748.1	739.7	733.6
20°	570.2	579.4	582.4	578.6	573.3
22.5°	421.4	431.3	440.4	431.3	424.4
25°	300.0	309.9	320.6	308.4	301.5
27.5°	202.3	208.4	217.6	206.1	196.2
30°	129.0	135.9	142.7	134.3	123.7
32.5°	81.7	86.3	87.0	85.5	76.3
35°	52.7	55.0	54.2	53.4	48.1
37.5°	33.6	33.6	34.4	33.6	30.5
40°	20.6	22.1	21.4	20.6	19.1
42.5°	12.2	13.7	13.0	13.0	12.2
45°	7.6	9.2	8.4	8.4	8.4
47.5°	5.3	6.1	5.3	5.3	6.1
50°	3.1	3.8	3.8	3.8	3.8
52.5°	2.3	2.3	2.3	2.3	3.1
55°	1.5	1.5	1.5	1.5	2.3
57.5°	1.5	1.5	0.8	0.8	1.5
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.0	0.0	0.0	0.8
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)