

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: P#

Luminaire Tested: **LD2B05D010 EU2B05WFL558050 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05WFL558050 2LBDSQLC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 656.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

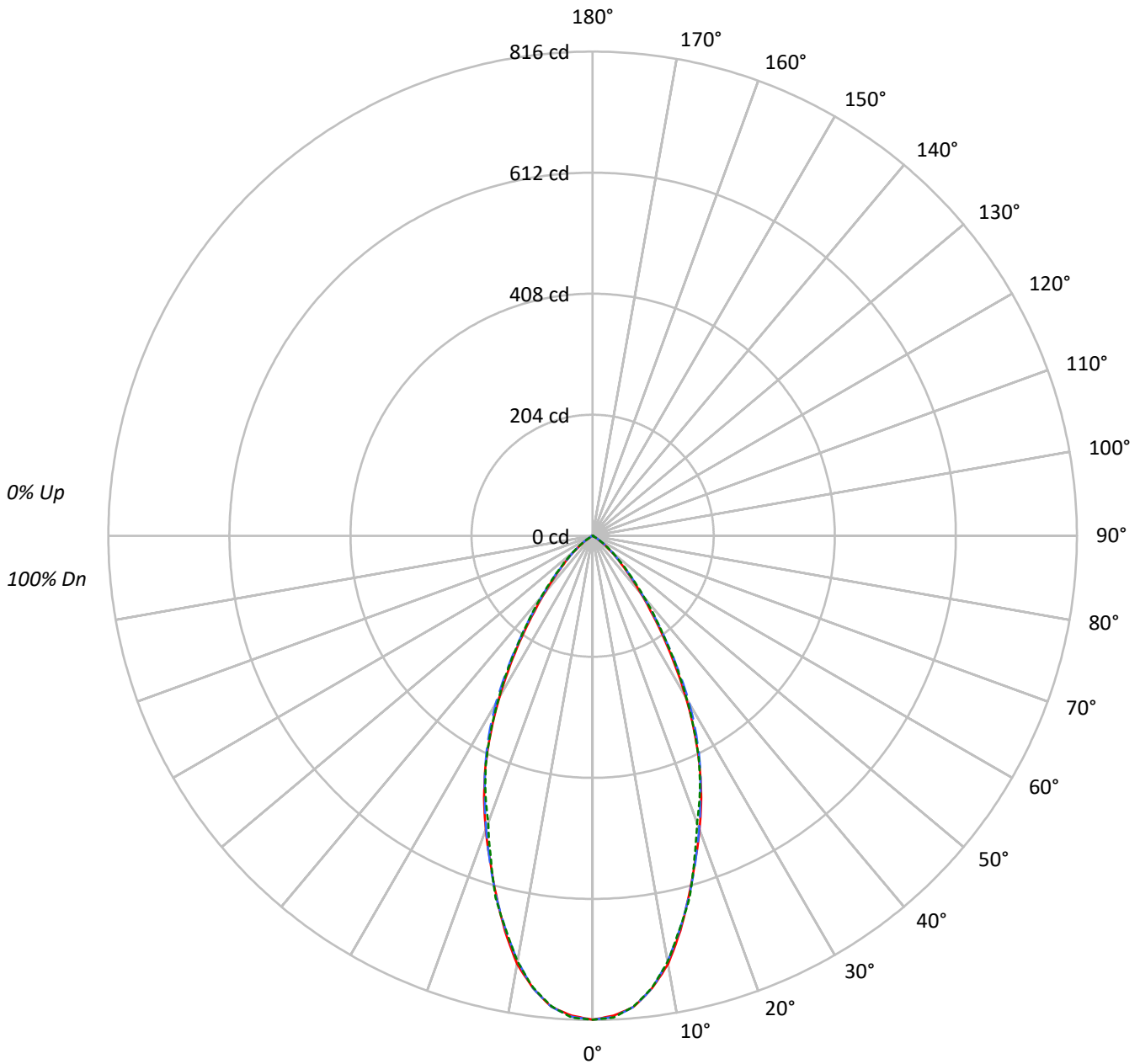
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

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

	0°	45°	90°
0°	315919	315919	315919
5°	309855	309855	309466
10°	288226	286181	286574
15°	251514	251915	253158
20°	217150	216284	212038
25°	182239	183136	181811
30°	140263	145810	141650
35°	97882	101807	100814
40°	63863	66442	68565
45°	39112	41413	43111
50°	23080	24948	26213
55°	9792	12561	11886
60°	1627	3176	2402
65°	917	917	917
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°	73.9	11.3
10°-20°	174.8	26.6
20°-30°	193.6	29.5
30°-40°	134.7	20.5
40°-50°	60.7	9.2
50°-60°	17.1	2.6
60°-70°	1.2	0.2
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°	442.3	67.4
0°-40°	577.0	88.0
0°-60°	654.8	99.8
0°-90°	656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	797	800	797	794	796	74
15°	627	630	628	627	631	175
25°	426	430	428	423	425	193
35°	207	213	215	215	213	131
45°	71	74	76	78	79	58
55°	14	17	19	19	18	15
65°	1	1	1	1	1	1
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°	815.6	815.6	815.6	815.6	815.6
2.5°	809.4	813.5	811.4	811.4	812.5
5°	796.9	800.0	796.9	793.8	795.9
7.5°	769.0	772.1	769.0	766.9	768.0
10°	732.8	730.7	727.6	725.5	728.6
12.5°	682.1	681.0	679.0	677.9	677.9
15°	627.2	630.3	628.2	627.2	631.3
17.5°	574.4	577.5	575.5	572.3	570.3
20°	526.8	527.8	524.7	519.6	514.4
22.5°	478.2	479.2	474.0	472.0	472.0
25°	426.4	429.5	428.5	423.3	425.4
27.5°	370.5	375.7	377.8	371.6	371.6
30°	313.6	317.7	326.0	317.7	316.7
32.5°	257.7	263.9	268.1	267.0	263.9
35°	207.0	213.2	215.3	215.3	213.2
37.5°	161.5	167.7	169.7	171.8	171.8
40°	126.3	129.4	131.4	134.5	135.6
42.5°	95.2	98.3	101.4	103.5	102.5
45°	71.4	73.5	75.6	77.6	78.7
47.5°	53.8	53.8	55.9	58.0	58.0
50°	38.3	40.4	41.4	42.4	43.5
52.5°	25.9	26.9	29.0	30.0	29.0
55°	14.5	16.6	18.6	18.6	17.6
57.5°	6.2	9.3	10.3	10.3	8.3
60°	2.1	4.1	4.1	5.2	3.1
62.5°	1.0	2.1	2.1	2.1	1.0
65°	1.0	1.0	1.0	1.0	1.0
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)