

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 EU2B05WFL559035 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 EU2B05WFL559035 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: 525.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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

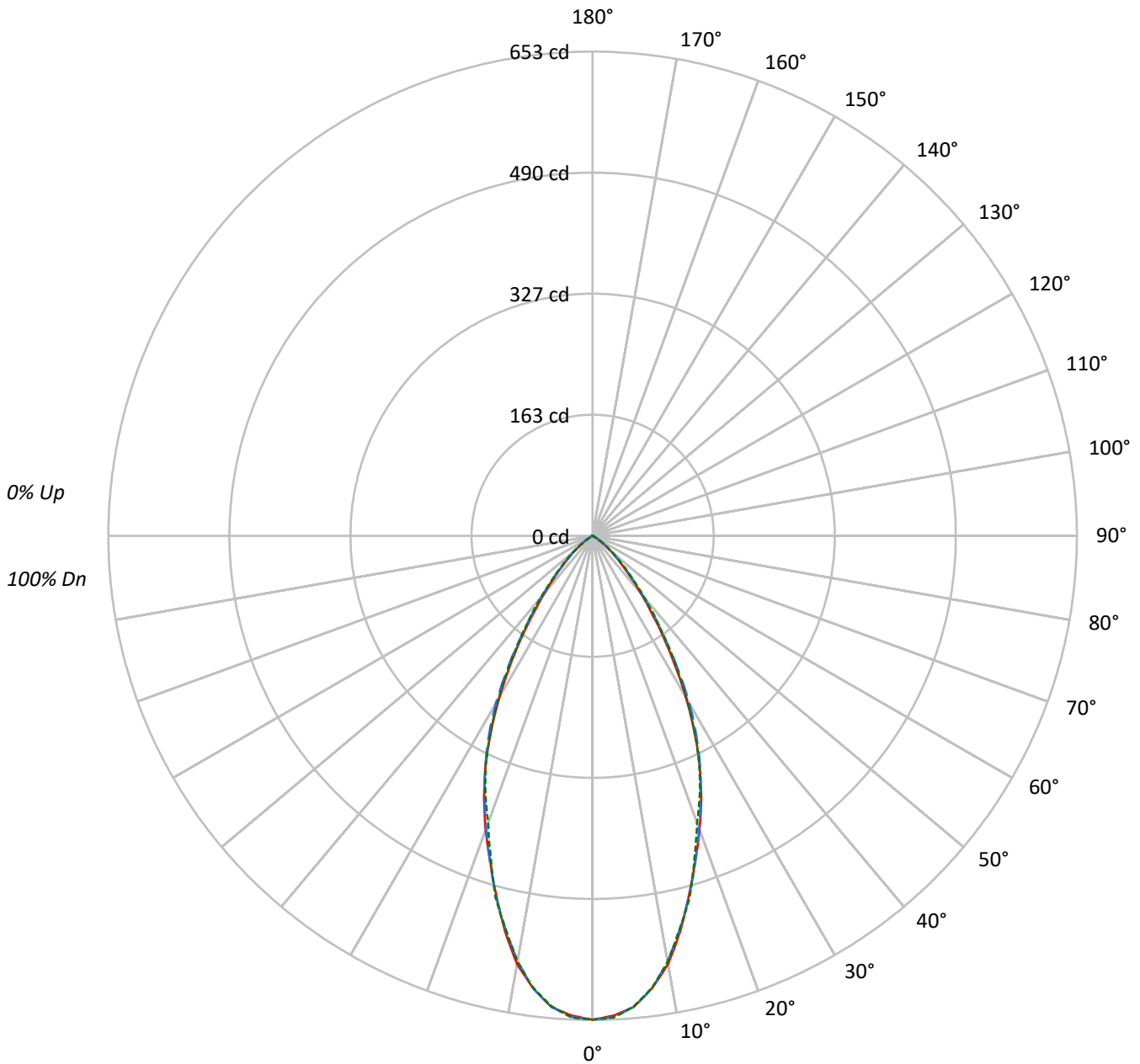
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	252821	252821	252821
5°	247993	247993	247682
10°	230644	229031	229346
15°	201307	201628	202630
20°	173786	173126	169705
25°	145868	146552	145483
30°	112264	116692	113383
35°	78353	81474	80670
40°	51121	53194	54862
45°	31334	33141	34511
50°	18440	19946	20971
55°	7834	10062	9522
60°	1317	2556	1937
65°	733	733	733
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°	59.1	11.3
10°-20°	139.9	26.6
20°-30°	155.0	29.5
30°-40°	107.8	20.5
40°-50°	48.6	9.2
50°-60°	13.7	2.6
60°-70°	0.9	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°	354.0	67.4
0°-40°	461.8	88.0
0°-60°	524.1	99.8
0°-90°	525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	638	640	638	635	637	59
15°	502	504	503	502	505	140
25°	341	344	343	339	340	155
35°	166	171	172	172	171	104
45°	57	59	60	62	63	46
55°	12	13	15	15	14	12
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°	652.7	652.7	652.7	652.7	652.7
2.5°	647.7	651.0	649.4	649.4	650.2
5°	637.8	640.3	637.8	635.3	637.0
7.5°	615.4	617.9	615.4	613.8	614.6
10°	586.4	584.8	582.3	580.6	583.1
12.5°	545.9	545.0	543.4	542.5	542.5
15°	502.0	504.4	502.8	502.0	505.3
17.5°	459.7	462.2	460.5	458.1	456.4
20°	421.6	422.4	420.0	415.8	411.7
22.5°	382.7	383.5	379.4	377.7	377.7
25°	341.3	343.7	342.9	338.8	340.4
27.5°	296.5	300.7	302.3	297.4	297.4
30°	251.0	254.3	260.9	254.3	253.5
32.5°	206.2	211.2	214.5	213.7	211.2
35°	165.7	170.6	172.3	172.3	170.6
37.5°	129.2	134.2	135.8	137.5	137.5
40°	101.1	103.5	105.2	107.7	108.5
42.5°	76.2	78.7	81.2	82.8	82.0
45°	57.2	58.8	60.5	62.1	63.0
47.5°	43.1	43.1	44.7	46.4	46.4
50°	30.6	32.3	33.1	34.0	34.8
52.5°	20.7	21.5	23.2	24.0	23.2
55°	11.6	13.3	14.9	14.9	14.1
57.5°	5.0	7.5	8.3	8.3	6.6
60°	1.7	3.3	3.3	4.1	2.5
62.5°	0.8	1.7	1.7	1.7	0.8
65°	0.8	0.8	0.8	0.8	0.8
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)