

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 EU2B05WFL558040 2LBDSQC\*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 (P14813)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05WFL558040 2LBDSQC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 660.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

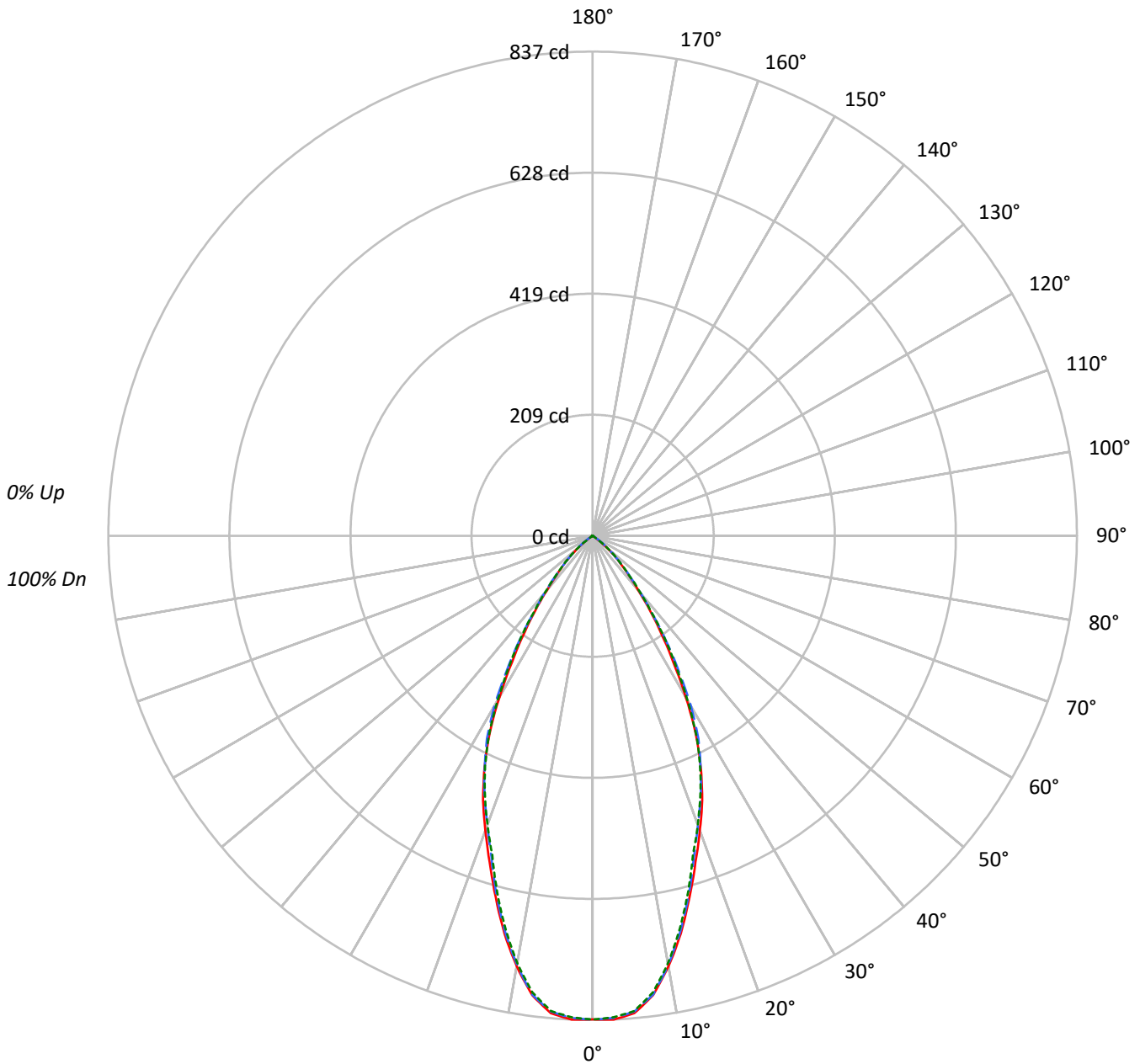
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51																			

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

	0°	45°	90°
0°	323899	323899	323899
5°	322181	321053	320664
10°	297312	296210	295070
15°	259454	257529	255604
20°	223374	219046	219046
25°	189120	188692	187880
30°	144065	151758	146615
35°	98072	103935	103037
40°	61840	65228	64773
45°	38236	38729	39277
50°	19585	21875	21332
55°	2566	7766	3242
60°	775	775	775
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°	76.5	11.6
10°-20°	178.8	27.1
20°-30°	200.6	30.4
30°-40°	136.3	20.6
40°-50°	57.0	8.6
50°-60°	10.7	1.6
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°	455.9	69.1
0°-40°	592.2	89.7
0°-60°	659.8	100.0
0°-90°	660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	829	828	826	824	825	77
15°	647	645	642	636	637	181
25°	442	446	442	441	440	200
35°	207	214	220	215	218	131
45°	70	69	71	72	72	55
55°	4	9	12	9	5	8
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°	836.2	836.2	836.2	836.2	836.2
2.5°	837.2	835.3	834.3	833.3	833.3
5°	828.6	827.6	825.7	823.8	824.7
7.5°	800.9	799.9	799.9	796.1	796.1
10°	755.9	755.9	753.1	753.1	750.2
12.5°	704.3	700.5	700.5	697.6	695.7
15°	647.0	645.1	642.2	636.5	637.4
17.5°	591.6	587.7	582.0	579.1	577.2
20°	541.9	540.9	531.4	529.4	531.4
22.5°	495.0	496.0	488.3	486.4	486.4
25°	442.5	446.3	441.5	440.6	439.6
27.5°	386.1	392.8	395.6	389.0	388.0
30°	322.1	333.5	339.3	332.6	327.8
32.5°	259.9	271.4	277.1	272.4	269.5
35°	207.4	214.1	219.8	215.0	217.9
37.5°	162.5	166.3	168.2	168.2	168.2
40°	122.3	126.1	129.0	130.0	128.1
42.5°	92.7	94.6	96.5	97.5	96.5
45°	69.8	68.8	70.7	71.7	71.7
47.5°	50.7	50.7	51.6	52.6	52.6
50°	32.5	34.4	36.3	35.4	35.4
52.5°	14.3	20.1	23.9	20.1	16.2
55°	3.8	8.6	11.5	8.6	4.8
57.5°	1.0	2.9	3.8	2.9	1.9
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)