

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 EU2B05WFL558030 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 EU2B05WFL558030 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: 627.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

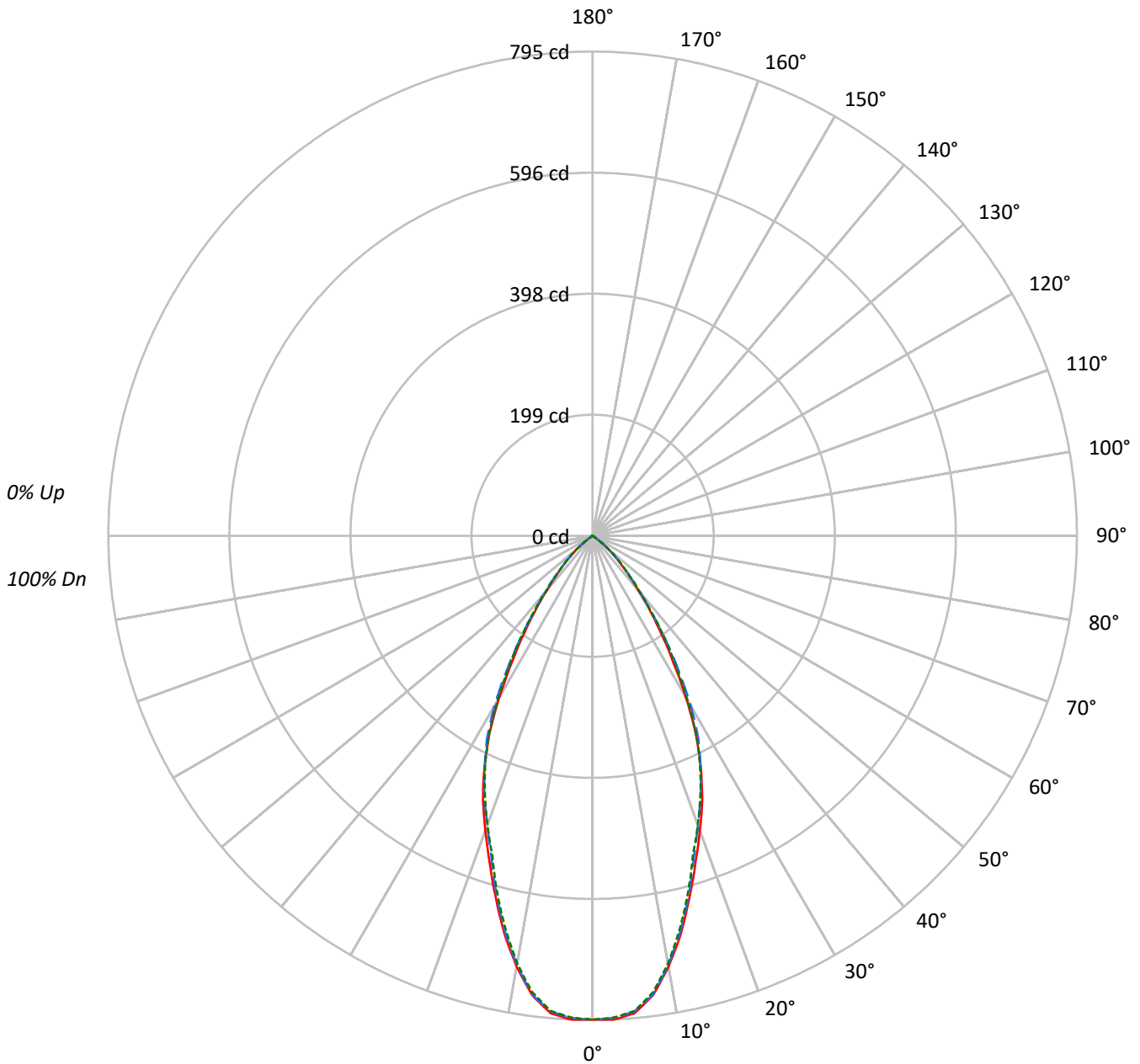
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	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°	307708	307708	307708
5°	306045	304995	304645
10°	282444	281382	280320
15°	246461	244656	242852
20°	212203	208081	208081
25°	179674	179247	178478
30°	136864	144155	139279
35°	93154	98734	97882
40°	58756	61992	61537
45°	36318	36811	37304
50°	18620	20790	20247
55°	2431	7361	3039
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°	72.7	11.6
10°-20°	169.9	27.1
20°-30°	190.6	30.4
30°-40°	129.5	20.6
40°-50°	54.1	8.6
50°-60°	10.1	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°	433.1	69.1
0°-40°	562.6	89.7
0°-60°	626.8	100.0
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	787	786	784	783	784	73
15°	615	613	610	605	606	171
25°	420	424	419	418	418	190
35°	197	203	209	204	207	125
45°	66	65	67	68	68	53
55°	4	8	11	8	4	7
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°	794.4	794.4	794.4	794.4	794.4
2.5°	795.3	793.5	792.6	791.7	791.7
5°	787.1	786.2	784.4	782.6	783.5
7.5°	760.8	759.9	759.9	756.3	756.3
10°	718.1	718.1	715.4	715.4	712.7
12.5°	669.1	665.5	665.5	662.8	660.9
15°	614.6	612.8	610.1	604.7	605.6
17.5°	562.0	558.4	552.9	550.2	548.4
20°	514.8	513.9	504.8	503.0	504.8
22.5°	470.3	471.2	463.9	462.1	462.1
25°	420.4	424.0	419.4	418.5	417.6
27.5°	366.8	373.1	375.9	369.5	368.6
30°	306.0	316.9	322.3	315.9	311.4
32.5°	246.9	257.8	263.3	258.7	256.0
35°	197.0	203.4	208.8	204.3	207.0
37.5°	154.3	158.0	159.8	159.8	159.8
40°	116.2	119.8	122.6	123.5	121.7
42.5°	88.1	89.9	91.7	92.6	91.7
45°	66.3	65.4	67.2	68.1	68.1
47.5°	48.1	48.1	49.0	49.9	49.9
50°	30.9	32.7	34.5	33.6	33.6
52.5°	13.6	19.1	22.7	19.1	15.4
55°	3.6	8.2	10.9	8.2	4.5
57.5°	0.9	2.7	3.6	2.7	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)