

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 EU2B05WFL559727 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 EU2B05WFL559727 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: 436.0 lumens
Efficiency: N/A
Efficacy: 59.7 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

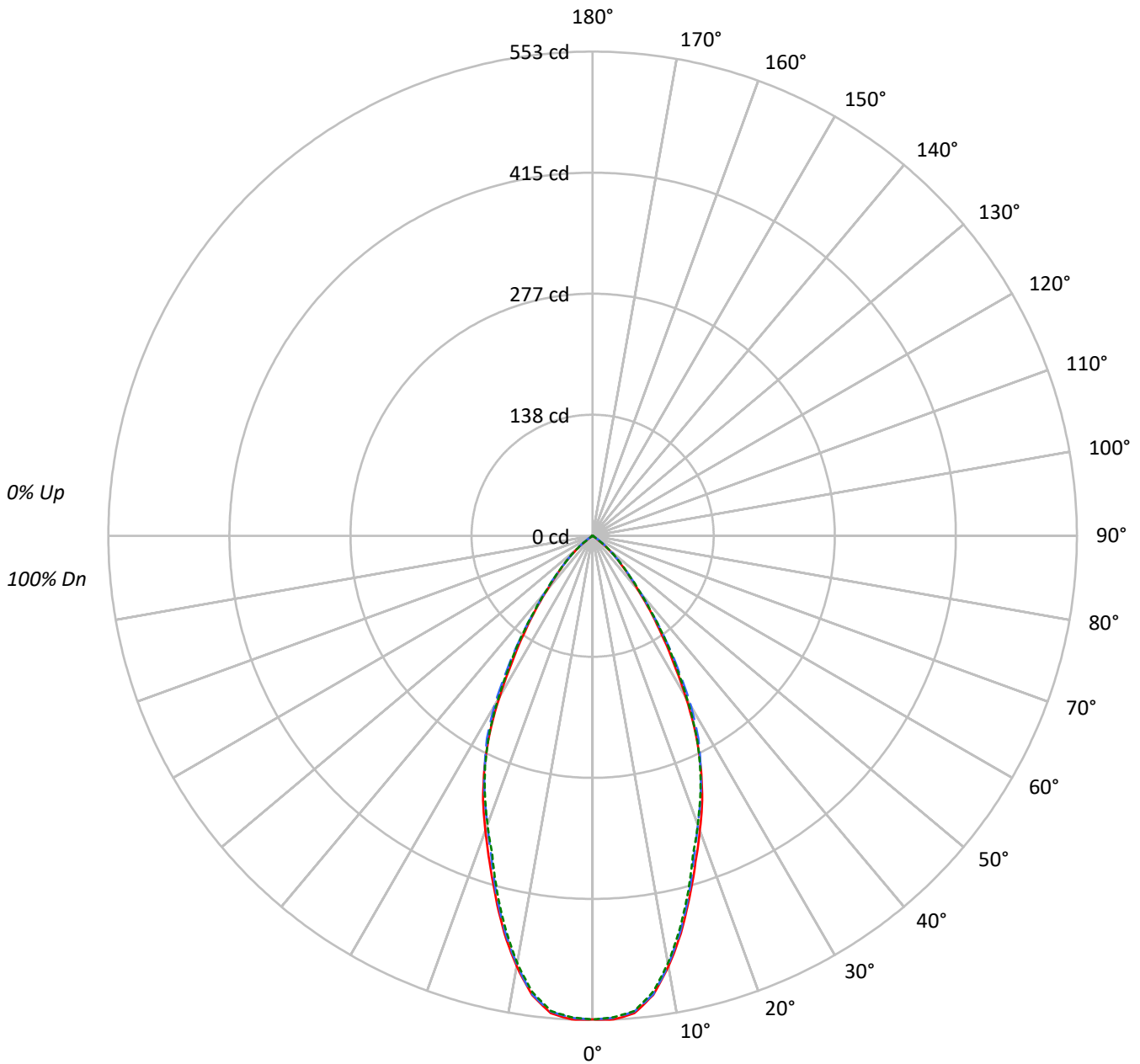
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	213970	213970	213970
5°	212843	212104	211832
10°	196425	195677	194930
15°	171392	170149	168865
20°	147569	144684	144684
25°	124926	124669	124114
30°	95179	100233	96834
35°	64782	68660	68045
40°	40856	43081	42778
45°	25253	25582	25910
50°	12956	14462	14101
55°	1688	5132	2161
60°	465	465	465
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°	50.5	11.6
10°-20°	118.1	27.1
20°-30°	132.5	30.4
30°-40°	90.0	20.6
40°-50°	37.6	8.6
50°-60°	7.0	1.6
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°	301.2	69.1
0°-40°	391.2	89.7
0°-60°	435.9	100.0
0°-90°	436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	547	547	546	544	545	51
15°	427	426	424	420	421	119
25°	292	295	292	291	290	132
35°	137	141	145	142	144	87
45°	46	46	47	47	47	37
55°	2	6	8	6	3	5
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°	552.4	552.4	552.4	552.4	552.4
2.5°	553.0	551.8	551.1	550.5	550.5
5°	547.4	546.7	545.5	544.2	544.8
7.5°	529.1	528.4	528.4	525.9	525.9
10°	499.4	499.4	497.5	497.5	495.6
12.5°	465.3	462.8	462.8	460.9	459.6
15°	427.4	426.1	424.3	420.5	421.1
17.5°	390.8	388.3	384.5	382.6	381.3
20°	358.0	357.3	351.0	349.8	351.0
22.5°	327.0	327.7	322.6	321.3	321.3
25°	292.3	294.8	291.7	291.0	290.4
27.5°	255.1	259.5	261.4	256.9	256.3
30°	212.8	220.3	224.1	219.7	216.5
32.5°	171.7	179.3	183.1	179.9	178.0
35°	137.0	141.4	145.2	142.0	143.9
37.5°	107.3	109.9	111.1	111.1	111.1
40°	80.8	83.3	85.2	85.9	84.6
42.5°	61.2	62.5	63.8	64.4	63.8
45°	46.1	45.5	46.7	47.3	47.3
47.5°	33.5	33.5	34.1	34.7	34.7
50°	21.5	22.7	24.0	23.4	23.4
52.5°	9.5	13.3	15.8	13.3	10.7
55°	2.5	5.7	7.6	5.7	3.2
57.5°	0.6	1.9	2.5	1.9	1.3
60°	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.0	0.0	0.0	0.6
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)