

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 EU2B05WFL559050 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 EU2B05WFL559050 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: 551.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

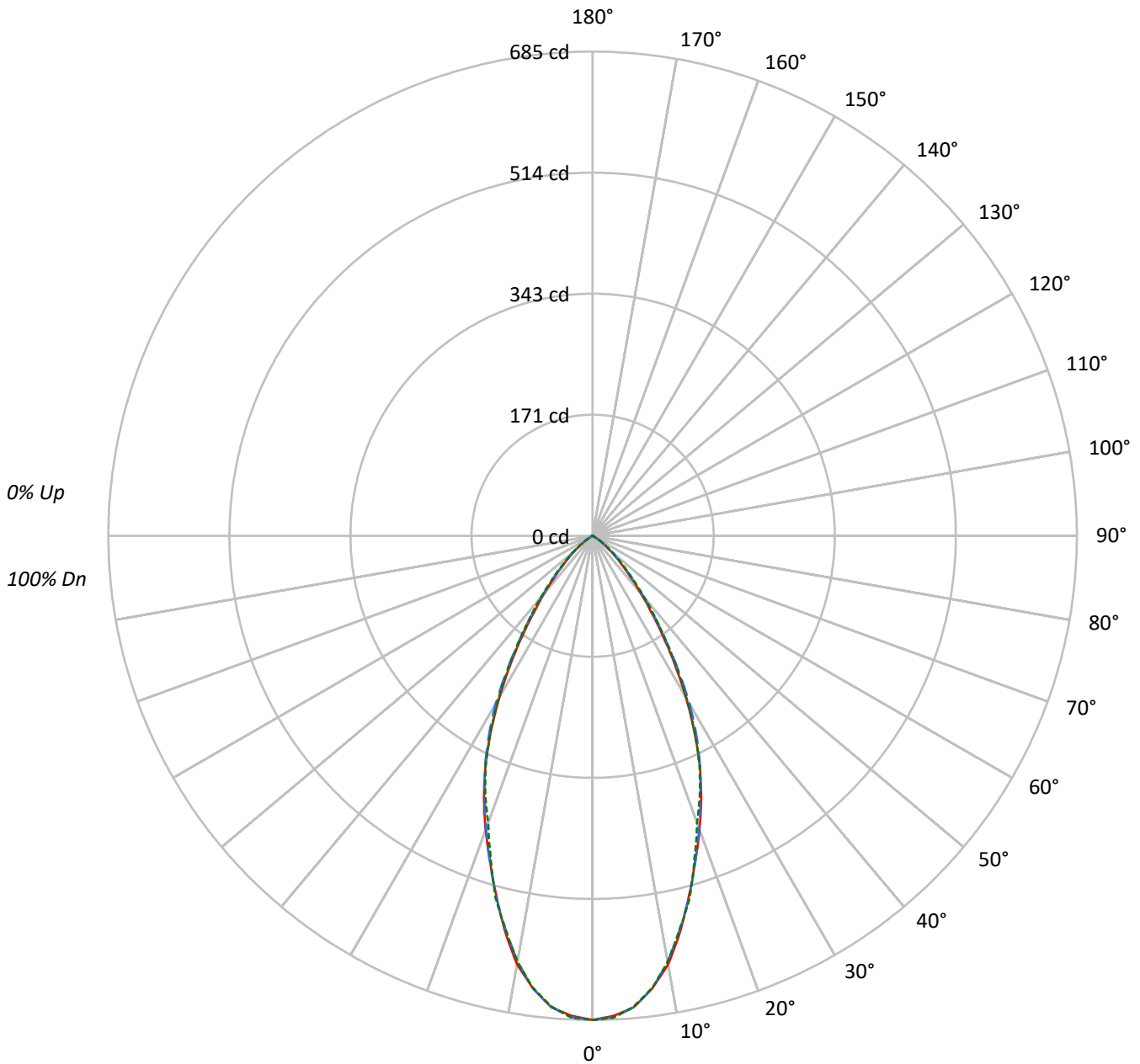
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	265332	265332	265332
5°	260280	260280	259930
10°	242089	240359	240713
15°	211252	211613	212656
20°	182401	181659	178114
25°	153091	153817	152706
30°	117811	122462	118973
35°	82231	85493	84690
40°	53649	55823	57593
45°	32867	34785	36209
50°	19404	20971	21995
55°	8239	10535	9995
60°	1317	2711	2014
65°	825	825	825
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°	62.1	11.3
10°-20°	146.8	26.6
20°-30°	162.6	29.5
30°-40°	113.2	20.5
40°-50°	51.0	9.2
50°-60°	14.4	2.6
60°-70°	1.0	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°	371.5	67.4
0°-40°	484.7	88.0
0°-60°	550.0	99.8
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	669	672	669	667	668	62
15°	527	529	528	527	530	147
25°	358	361	360	356	357	162
35°	174	179	181	181	179	110
45°	60	62	64	65	66	48
55°	12	14	16	16	15	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°	685.0	685.0	685.0	685.0	685.0
2.5°	679.8	683.3	681.6	681.6	682.4
5°	669.4	672.0	669.4	666.8	668.5
7.5°	645.9	648.5	645.9	644.2	645.0
10°	615.5	613.7	611.1	609.4	612.0
12.5°	572.9	572.0	570.3	569.4	569.4
15°	526.8	529.4	527.7	526.8	530.3
17.5°	482.5	485.1	483.3	480.7	479.0
20°	442.5	443.4	440.7	436.4	432.1
22.5°	401.6	402.5	398.2	396.4	396.4
25°	358.2	360.8	359.9	355.6	357.3
27.5°	311.2	315.6	317.3	312.1	312.1
30°	263.4	266.9	273.8	266.9	266.0
32.5°	216.5	221.7	225.2	224.3	221.7
35°	173.9	179.1	180.8	180.8	179.1
37.5°	135.6	140.8	142.6	144.3	144.3
40°	106.1	108.7	110.4	113.0	113.9
42.5°	80.0	82.6	85.2	86.9	86.1
45°	60.0	61.7	63.5	65.2	66.1
47.5°	45.2	45.2	46.9	48.7	48.7
50°	32.2	33.9	34.8	35.6	36.5
52.5°	21.7	22.6	24.3	25.2	24.3
55°	12.2	13.9	15.6	15.6	14.8
57.5°	5.2	7.8	8.7	8.7	7.0
60°	1.7	3.5	3.5	4.3	2.6
62.5°	0.9	1.7	1.7	1.7	0.9
65°	0.9	0.9	0.9	0.9	0.9
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)