

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 EU2B05WFL558035 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 EU2B05WFL558035 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: 634.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

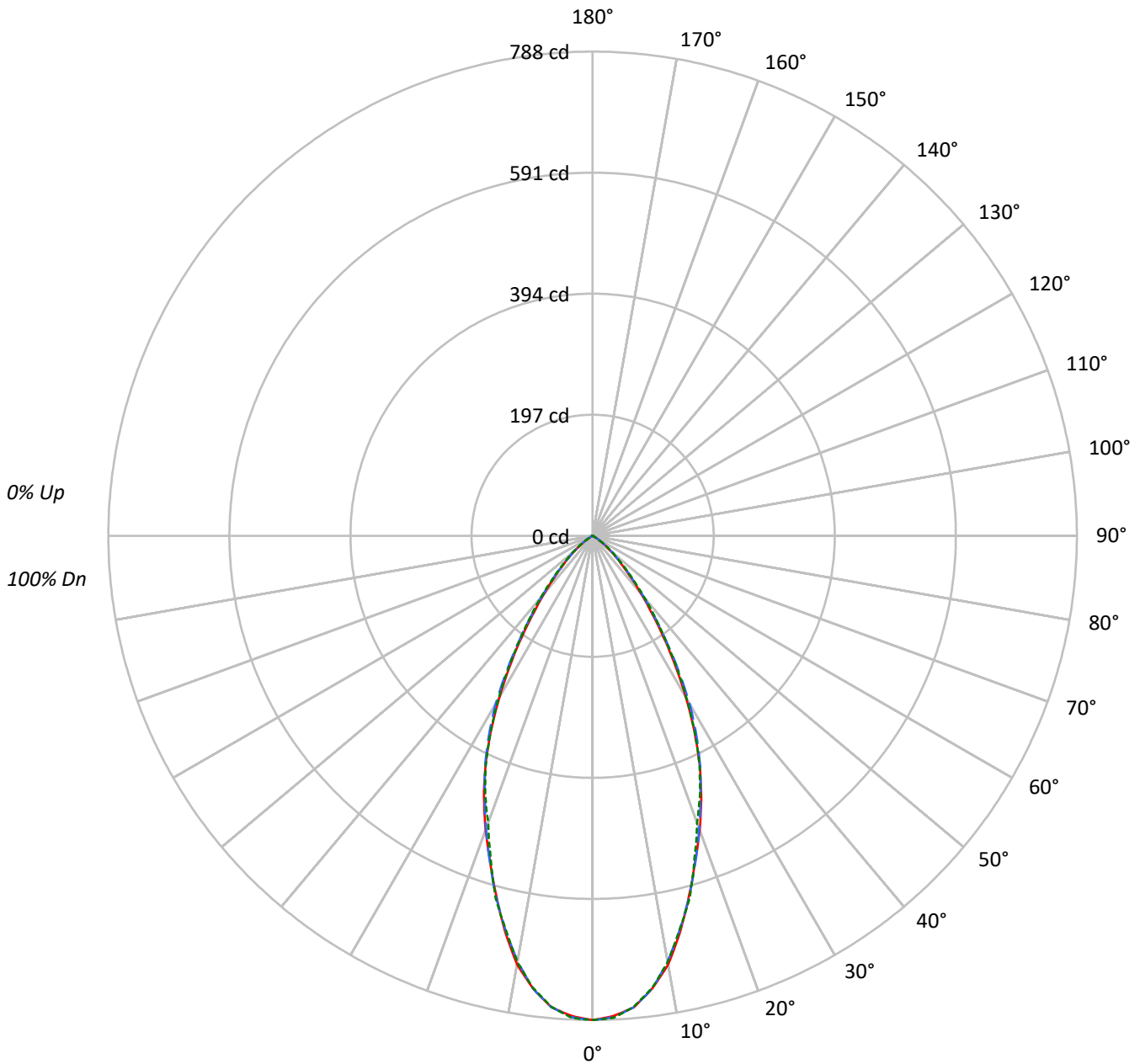
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	305306	305306	305306
5°	299473	299473	299085
10°	278550	276584	276977
15°	243092	243493	244696
20°	209854	209029	204907
25°	176127	176982	175700
30°	135567	140934	136909
35°	94620	98403	97457
40°	61689	64217	66239
45°	37798	39989	41632
50°	22296	24104	25309
55°	9454	12156	11480
60°	1549	3099	2324
65°	917	917	917
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°	71.4	11.3
10°-20°	168.9	26.6
20°-30°	187.1	29.5
30°-40°	130.2	20.5
40°-50°	58.6	9.2
50°-60°	16.5	2.6
60°-70°	1.1	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°	427.5	67.4
0°-40°	557.7	88.0
0°-60°	632.8	99.8
0°-90°	634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	770	773	770	767	769	71
15°	606	609	607	606	610	169
25°	412	415	414	409	411	187
35°	200	206	208	208	206	126
45°	69	71	73	75	76	56
55°	14	16	18	18	17	14
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°	788.2	788.2	788.2	788.2	788.2
2.5°	782.2	786.2	784.2	784.2	785.2
5°	770.2	773.2	770.2	767.2	769.2
7.5°	743.2	746.2	743.2	741.2	742.2
10°	708.2	706.2	703.2	701.2	704.2
12.5°	659.2	658.2	656.2	655.2	655.2
15°	606.2	609.2	607.2	606.2	610.2
17.5°	555.2	558.2	556.2	553.2	551.2
20°	509.1	510.1	507.1	502.1	497.1
22.5°	462.1	463.1	458.1	456.1	456.1
25°	412.1	415.1	414.1	409.1	411.1
27.5°	358.1	363.1	365.1	359.1	359.1
30°	303.1	307.1	315.1	307.1	306.1
32.5°	249.1	255.1	259.1	258.1	255.1
35°	200.1	206.1	208.1	208.1	206.1
37.5°	156.0	162.0	164.0	166.0	166.0
40°	122.0	125.0	127.0	130.0	131.0
42.5°	92.0	95.0	98.0	100.0	99.0
45°	69.0	71.0	73.0	75.0	76.0
47.5°	52.0	52.0	54.0	56.0	56.0
50°	37.0	39.0	40.0	41.0	42.0
52.5°	25.0	26.0	28.0	29.0	28.0
55°	14.0	16.0	18.0	18.0	17.0
57.5°	6.0	9.0	10.0	10.0	8.0
60°	2.0	4.0	4.0	5.0	3.0
62.5°	1.0	2.0	2.0	2.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
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)