

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 EU2B05WFL559024 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 EU2B05WFL559024 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: 450.0 lumens
Efficiency: N/A
Efficacy: 61.6 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

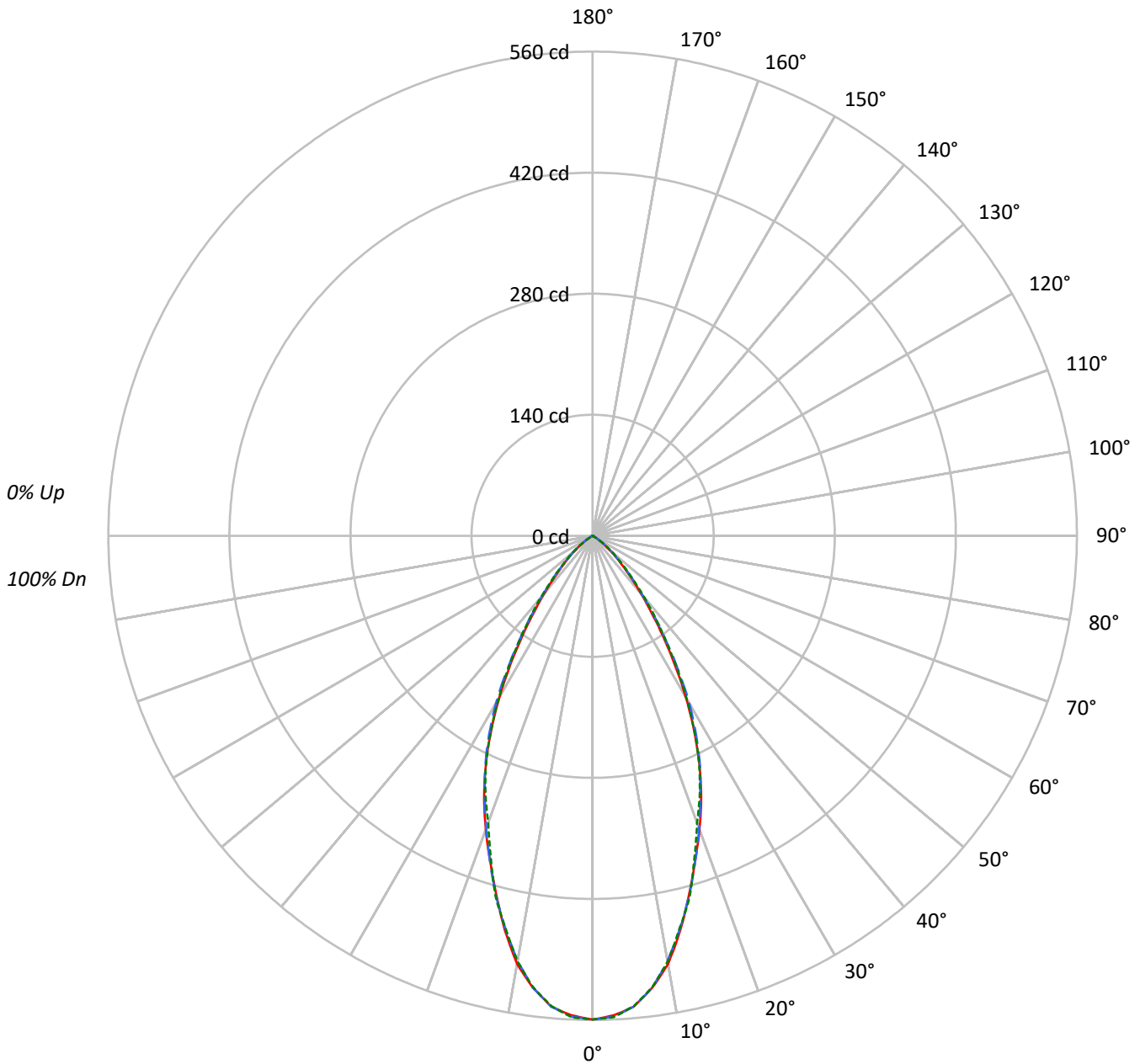
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	216720	216720	216720
5°	212571	212571	212299
10°	197723	196307	196582
15°	172515	172835	173677
20°	148971	148394	145467
25°	125011	125610	124712
30°	96207	100009	97191
35°	67146	69842	69180
40°	43789	45609	47025
45°	26842	28376	29581
50°	15848	17114	17958
55°	6686	8644	8171
60°	1085	2169	1627
65°	642	642	642
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°	50.7	11.3
10°-20°	119.9	26.6
20°-30°	132.8	29.5
30°-40°	92.4	20.5
40°-50°	41.6	9.2
50°-60°	11.7	2.6
60°-70°	0.8	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°	303.4	67.4
0°-40°	395.8	88.0
0°-60°	449.2	99.8
0°-90°	450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	547	549	547	545	546	51
15°	430	432	431	430	433	120
25°	292	295	294	290	292	133
35°	142	146	148	148	146	90
45°	49	50	52	53	54	40
55°	10	11	13	13	12	10
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°	559.5	559.5	559.5	559.5	559.5
2.5°	555.2	558.0	556.6	556.6	557.3
5°	546.7	548.8	546.7	544.6	546.0
7.5°	527.5	529.6	527.5	526.1	526.8
10°	502.7	501.2	499.1	497.7	499.8
12.5°	467.9	467.2	465.7	465.0	465.0
15°	430.2	432.4	431.0	430.2	433.1
17.5°	394.0	396.2	394.7	392.6	391.2
20°	361.4	362.1	360.0	356.4	352.9
22.5°	328.0	328.7	325.2	323.8	323.8
25°	292.5	294.6	293.9	290.4	291.8
27.5°	254.2	257.7	259.1	254.9	254.9
30°	215.1	218.0	223.6	218.0	217.3
32.5°	176.8	181.0	183.9	183.2	181.0
35°	142.0	146.3	147.7	147.7	146.3
37.5°	110.8	115.0	116.4	117.9	117.9
40°	86.6	88.7	90.2	92.3	93.0
42.5°	65.3	67.4	69.6	71.0	70.3
45°	49.0	50.4	51.8	53.2	54.0
47.5°	36.9	36.9	38.3	39.8	39.8
50°	26.3	27.7	28.4	29.1	29.8
52.5°	17.7	18.5	19.9	20.6	19.9
55°	9.9	11.4	12.8	12.8	12.1
57.5°	4.3	6.4	7.1	7.1	5.7
60°	1.4	2.8	2.8	3.5	2.1
62.5°	0.7	1.4	1.4	1.4	0.7
65°	0.7	0.7	0.7	0.7	0.7
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)