

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: **LD2B15D010 EU2B15WFL559730 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: LD2B15D010 EU2B15WFL559730 2LBDSQC*MB
Description: 1500 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: 833.3 lumens
Efficiency: N/A
Efficacy: 58.3 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

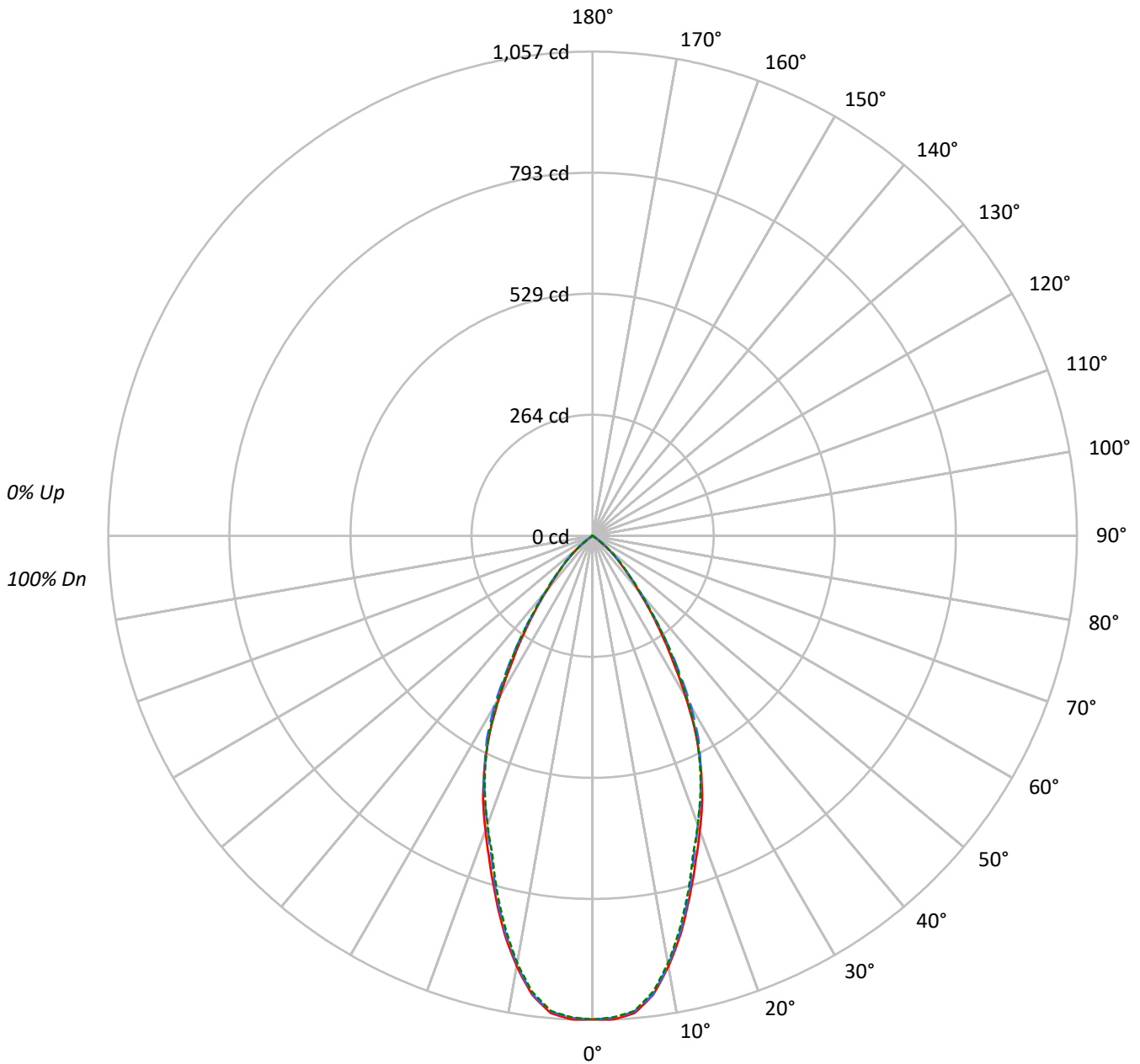
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	408960	408960	408960
5°	406750	405351	404884
10°	375386	373970	372554
15°	327585	325139	322733
20°	281989	276548	276548
25°	238782	238269	237201
30°	181859	191565	185124
35°	123795	131219	130084
40°	78071	82369	81763
45°	48260	48918	49575
50°	24707	27659	26876
55°	3242	9792	4052
60°	930	930	930
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°	96.6	11.6
10°-20°	225.7	27.1
20°-30°	253.3	30.4
30°-40°	172.1	20.6
40°-50°	71.9	8.6
50°-60°	13.4	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°	575.6	69.1
0°-40°	747.7	89.7
0°-60°	833.1	100.0
0°-90°	833.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1046	1045	1042	1040	1041	97
15°	817	814	811	804	805	228
25°	559	564	558	556	555	253
35°	262	270	278	272	275	166
45°	88	87	89	90	90	70
55°	5	11	14	11	6	10
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°	1055.8	1055.8	1055.8	1055.8	1055.8
2.5°	1057.0	1054.6	1053.4	1052.2	1052.2
5°	1046.1	1044.9	1042.5	1040.1	1041.3
7.5°	1011.1	1009.9	1009.9	1005.1	1005.1
10°	954.4	954.4	950.8	950.8	947.2
12.5°	889.3	884.4	884.4	880.8	878.4
15°	816.9	814.5	810.8	803.6	804.8
17.5°	746.9	742.1	734.8	731.2	728.8
20°	684.1	682.9	670.9	668.5	670.9
22.5°	625.0	626.2	616.6	614.2	614.2
25°	558.7	563.5	557.5	556.2	555.0
27.5°	487.5	495.9	499.5	491.1	489.9
30°	406.6	421.1	428.3	419.9	413.9
32.5°	328.2	342.7	349.9	343.9	340.3
35°	261.8	270.3	277.5	271.5	275.1
37.5°	205.1	210.0	212.4	212.4	212.4
40°	154.4	159.3	162.9	164.1	161.7
42.5°	117.0	119.5	121.9	123.1	121.9
45°	88.1	86.9	89.3	90.5	90.5
47.5°	64.0	64.0	65.2	66.4	66.4
50°	41.0	43.4	45.9	44.6	44.6
52.5°	18.1	25.3	30.2	25.3	20.5
55°	4.8	10.9	14.5	10.9	6.0
57.5°	1.2	3.6	4.8	3.6	2.4
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	0.0	0.0	0.0	1.2
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)