

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 EU2B15WFL559035 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 EU2B15WFL559035 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: 942.8 lumens
Efficiency: N/A
Efficacy: 65.9 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

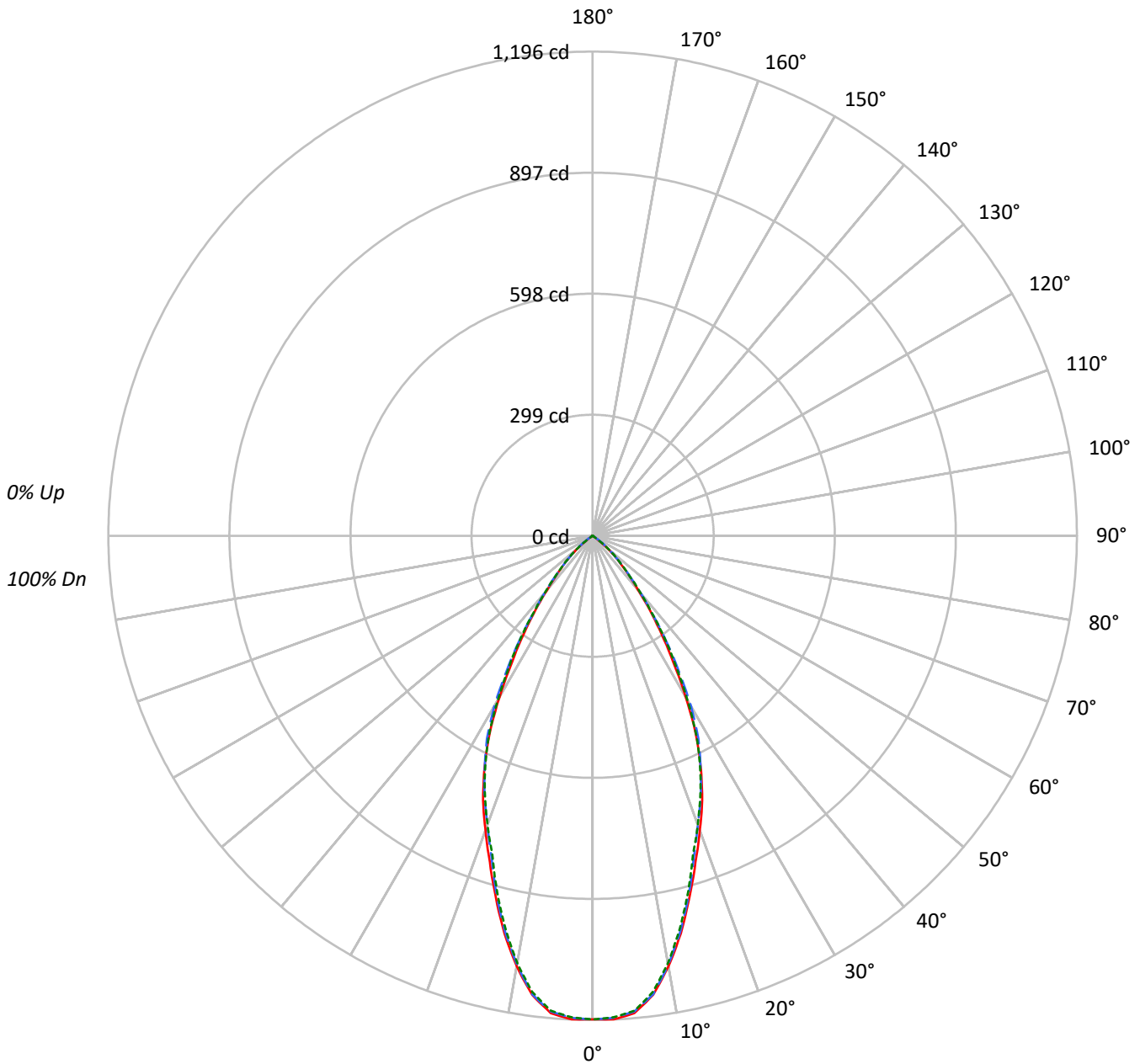
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	462685	462685	462685
5°	460214	458620	458075
10°	424708	423135	421523
15°	370614	367887	365160
20°	319047	312864	312864
25°	270153	269554	268400
30°	205788	216746	209456
35°	140062	148479	147202
40°	88336	93190	92482
45°	54615	55327	56094
50°	27961	31275	30431
55°	3714	11075	4592
60°	1085	1085	1085
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°	109.3	11.6
10°-20°	255.4	27.1
20°-30°	286.6	30.4
30°-40°	194.7	20.6
40°-50°	81.4	8.6
50°-60°	15.2	1.6
60°-70°	0.3	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°	651.3	69.1
0°-40°	846.0	89.7
0°-60°	942.6	100.0
0°-90°	942.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1184	1182	1180	1177	1178	110
15°	924	922	917	909	911	258
25°	632	638	631	629	628	286
35°	296	306	314	307	311	188
45°	100	98	101	102	102	79
55°	6	12	16	12	7	11
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1195.9	1193.2	1191.8	1190.4	1190.4
5°	1183.6	1182.2	1179.5	1176.8	1178.1
7.5°	1144.0	1142.6	1142.6	1137.2	1137.2
10°	1079.8	1079.8	1075.8	1075.8	1071.7
12.5°	1006.1	1000.7	1000.7	996.6	993.8
15°	924.2	921.5	917.4	909.2	910.6
17.5°	845.0	839.6	831.4	827.3	824.6
20°	774.0	772.7	759.0	756.3	759.0
22.5°	707.2	708.5	697.6	694.9	694.9
25°	632.1	637.5	630.7	629.3	628.0
27.5°	551.5	561.1	565.2	555.6	554.3
30°	460.1	476.4	484.6	475.1	468.3
32.5°	371.3	387.7	395.9	389.1	385.0
35°	296.2	305.8	314.0	307.2	311.3
37.5°	232.1	237.5	240.3	240.3	240.3
40°	174.7	180.2	184.3	185.7	182.9
42.5°	132.4	135.2	137.9	139.2	137.9
45°	99.7	98.3	101.0	102.4	102.4
47.5°	72.4	72.4	73.7	75.1	75.1
50°	46.4	49.1	51.9	50.5	50.5
52.5°	20.5	28.7	34.1	28.7	23.2
55°	5.5	12.3	16.4	12.3	6.8
57.5°	1.4	4.1	5.5	4.1	2.7
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
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)