

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 EU2B15WFL559727 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 EU2B15WFL559727 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: 783.0 lumens
Efficiency: N/A
Efficacy: 54.8 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

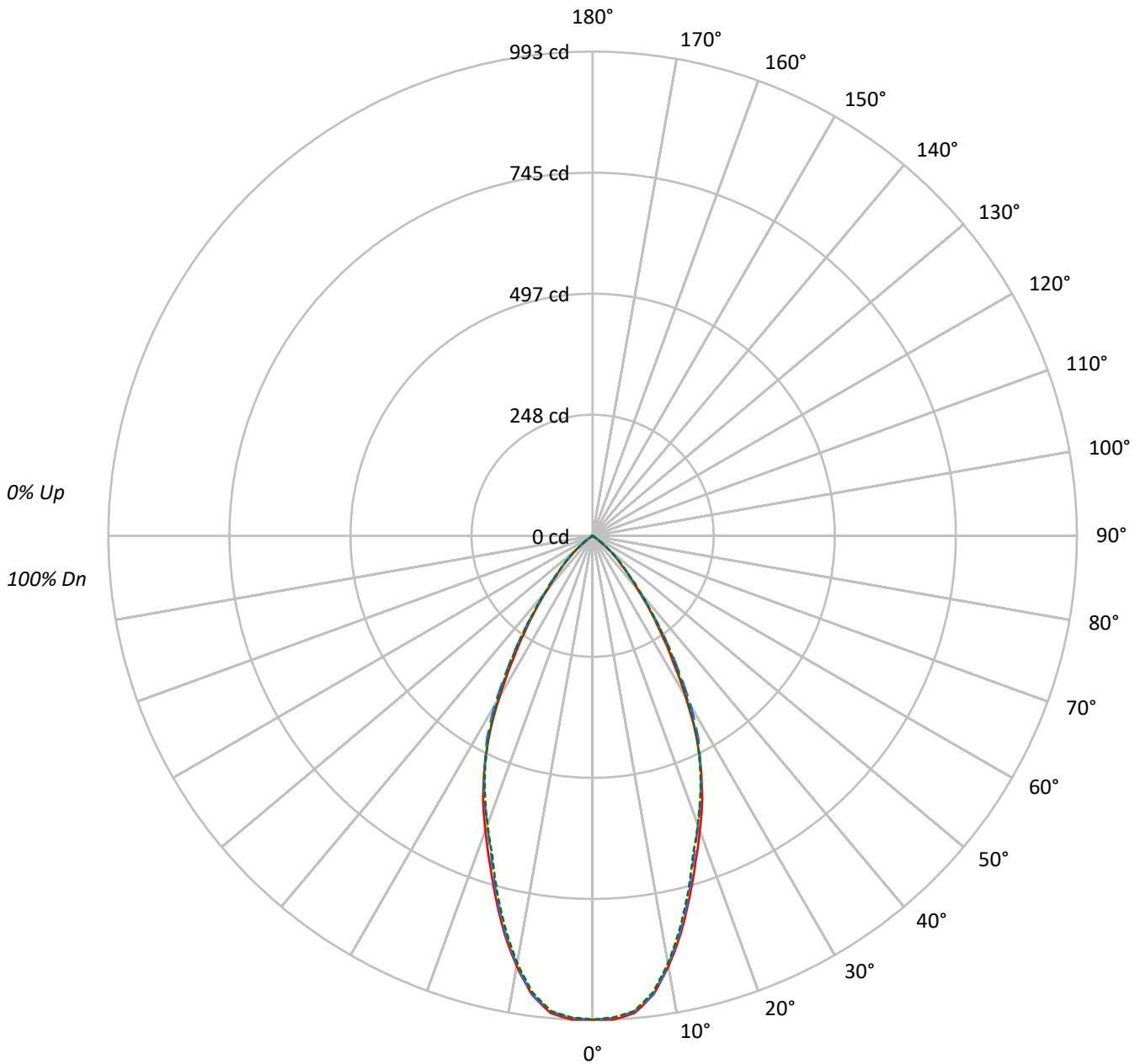
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	384286	384286	384286
5°	382216	380894	380466
10°	352731	351393	350056
15°	307815	305530	303244
20°	265007	259854	259854
25°	224336	223866	222883
30°	170901	180026	173943
35°	116324	123322	122235
40°	73369	77414	76807
45°	45357	45960	46562
50°	23200	25972	25249
55°	3039	9184	3849
60°	852	852	852
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°	90.7	11.6
10°-20°	212.1	27.1
20°-30°	238.0	30.4
30°-40°	161.7	20.6
40°-50°	67.6	8.6
50°-60°	12.6	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°	540.9	69.1
0°-40°	702.6	89.7
0°-60°	782.8	100.0
0°-90°	783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	983	982	980	977	978	91
15°	768	765	762	755	756	214
25°	525	530	524	523	522	237
35°	246	254	261	255	258	156
45°	83	82	84	85	85	66
55°	4	10	14	10	6	9
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°	992.1	992.1	992.1	992.1	992.1
2.5°	993.2	990.9	989.8	988.7	988.7
5°	983.0	981.9	979.6	977.3	978.5
7.5°	950.1	949.0	949.0	944.4	944.4
10°	896.8	896.8	893.4	893.4	890.0
12.5°	835.6	831.1	831.1	827.7	825.4
15°	767.6	765.3	761.9	755.1	756.2
17.5°	701.8	697.3	690.5	687.1	684.8
20°	642.9	641.7	630.4	628.1	630.4
22.5°	587.3	588.4	579.4	577.1	577.1
25°	524.9	529.5	523.8	522.7	521.5
27.5°	458.0	466.0	469.4	461.4	460.3
30°	382.1	395.7	402.5	394.6	388.9
32.5°	308.4	322.0	328.8	323.1	319.7
35°	246.0	254.0	260.8	255.1	258.5
37.5°	192.7	197.3	199.5	199.5	199.5
40°	145.1	149.7	153.1	154.2	151.9
42.5°	110.0	112.2	114.5	115.6	114.5
45°	82.8	81.6	83.9	85.0	85.0
47.5°	60.1	60.1	61.2	62.4	62.4
50°	38.5	40.8	43.1	41.9	41.9
52.5°	17.0	23.8	28.3	23.8	19.3
55°	4.5	10.2	13.6	10.2	5.7
57.5°	1.1	3.4	4.5	3.4	2.3
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	0.0	0.0	0.0	1.1
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)