

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 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: LD2B15D010 EU2B15WFL559730 2LBDSQLC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

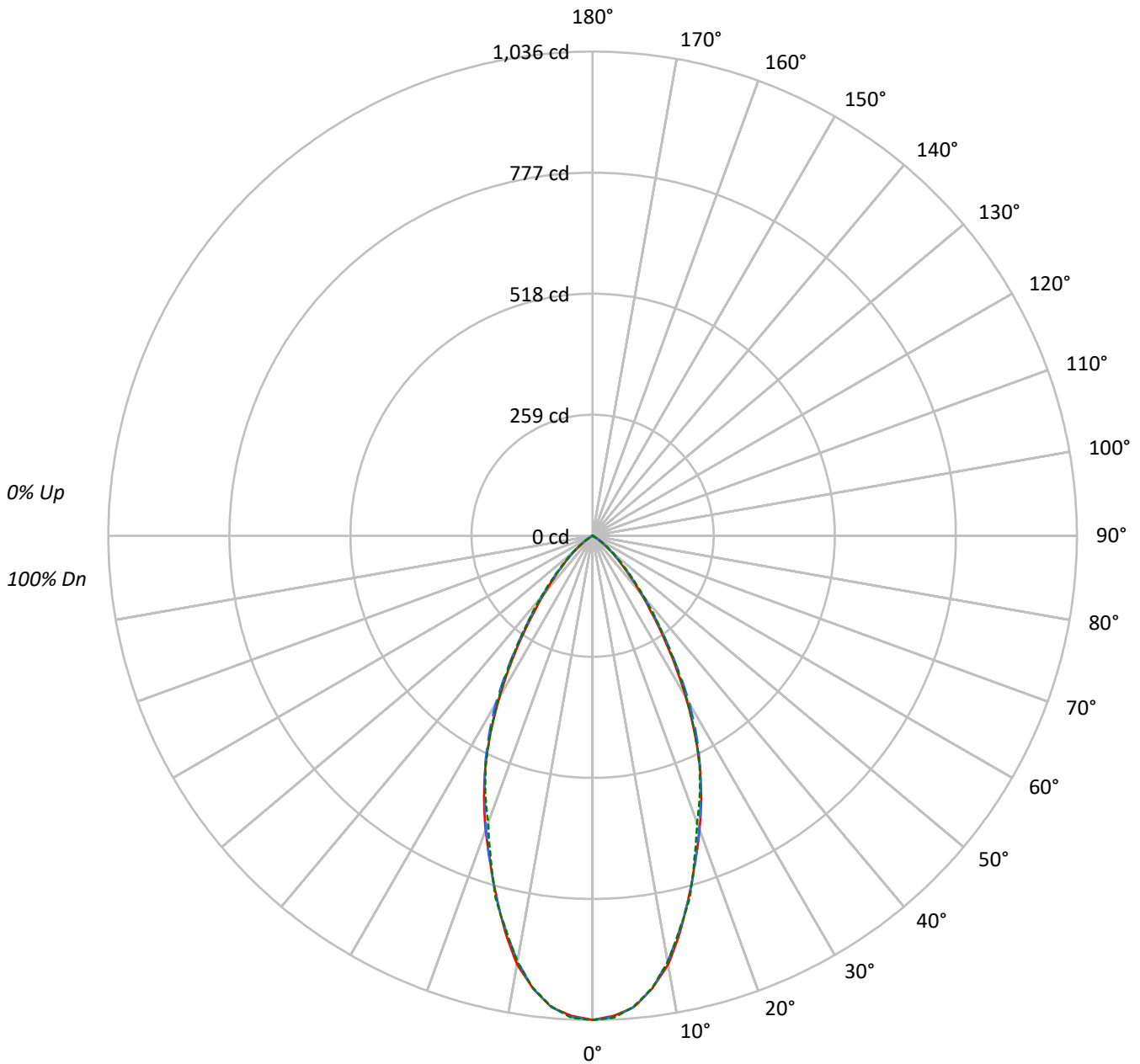
Lumens per Lamp: N/A
Luminaire Lumens: 833.3 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	401290	401290	401290
5°	393608	393608	393103
10°	366104	363508	364058
15°	319485	320006	321610
20°	275848	274776	269335
25°	231517	232628	230961
30°	178192	185214	179936
35°	124315	129328	128051
40°	81105	84443	87072
45°	49685	52588	54724
50°	29287	31697	33264
55°	12426	16005	15127
60°	2014	4106	3021
65°	1192	1192	1192
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°	93.9	11.3
10°-20°	222.0	26.6
20°-30°	246.0	29.5
30°-40°	171.2	20.5
40°-50°	77.1	9.2
50°-60°	21.7	2.6
60°-70°	1.5	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°	561.8	67.4
0°-40°	733.0	88.0
0°-60°	831.8	99.8
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°	1036	1036	1036	1036	1036	
5°	1012	1016	1012	1008	1011	94
15°	797	801	798	797	802	222
25°	542	546	544	538	540	246
35°	263	271	274	274	271	166
45°	91	93	96	99	100	73
55°	18	21	24	24	22	19
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°	1036.0	1036.0	1036.0	1036.0	1036.0
2.5°	1028.1	1033.4	1030.7	1030.7	1032.1
5°	1012.3	1016.3	1012.3	1008.4	1011.0
7.5°	976.8	980.8	976.8	974.2	975.5
10°	930.8	928.2	924.2	921.6	925.6
12.5°	866.4	865.1	862.5	861.1	861.1
15°	796.7	800.7	798.0	796.7	802.0
17.5°	729.7	733.6	731.0	727.0	724.4
20°	669.2	670.5	666.6	660.0	653.4
22.5°	607.4	608.7	602.1	599.5	599.5
25°	541.7	545.6	544.3	537.7	540.4
27.5°	470.7	477.2	479.9	472.0	472.0
30°	398.4	403.6	414.1	403.6	402.3
32.5°	327.4	335.3	340.5	339.2	335.3
35°	262.9	270.8	273.5	273.5	270.8
37.5°	205.1	213.0	215.6	218.2	218.2
40°	160.4	164.3	167.0	170.9	172.2
42.5°	121.0	124.9	128.8	131.5	130.2
45°	90.7	93.3	96.0	98.6	99.9
47.5°	68.4	68.4	71.0	73.6	73.6
50°	48.6	51.3	52.6	53.9	55.2
52.5°	32.9	34.2	36.8	38.1	36.8
55°	18.4	21.0	23.7	23.7	22.4
57.5°	7.9	11.8	13.1	13.1	10.5
60°	2.6	5.3	5.3	6.6	3.9
62.5°	1.3	2.6	2.6	2.6	1.3
65°	1.3	1.3	1.3	1.3	1.3
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)