

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: **LD2B20D010 EU2B20WFL559730 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: LD2B20D010 EU2B20WFL559730 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

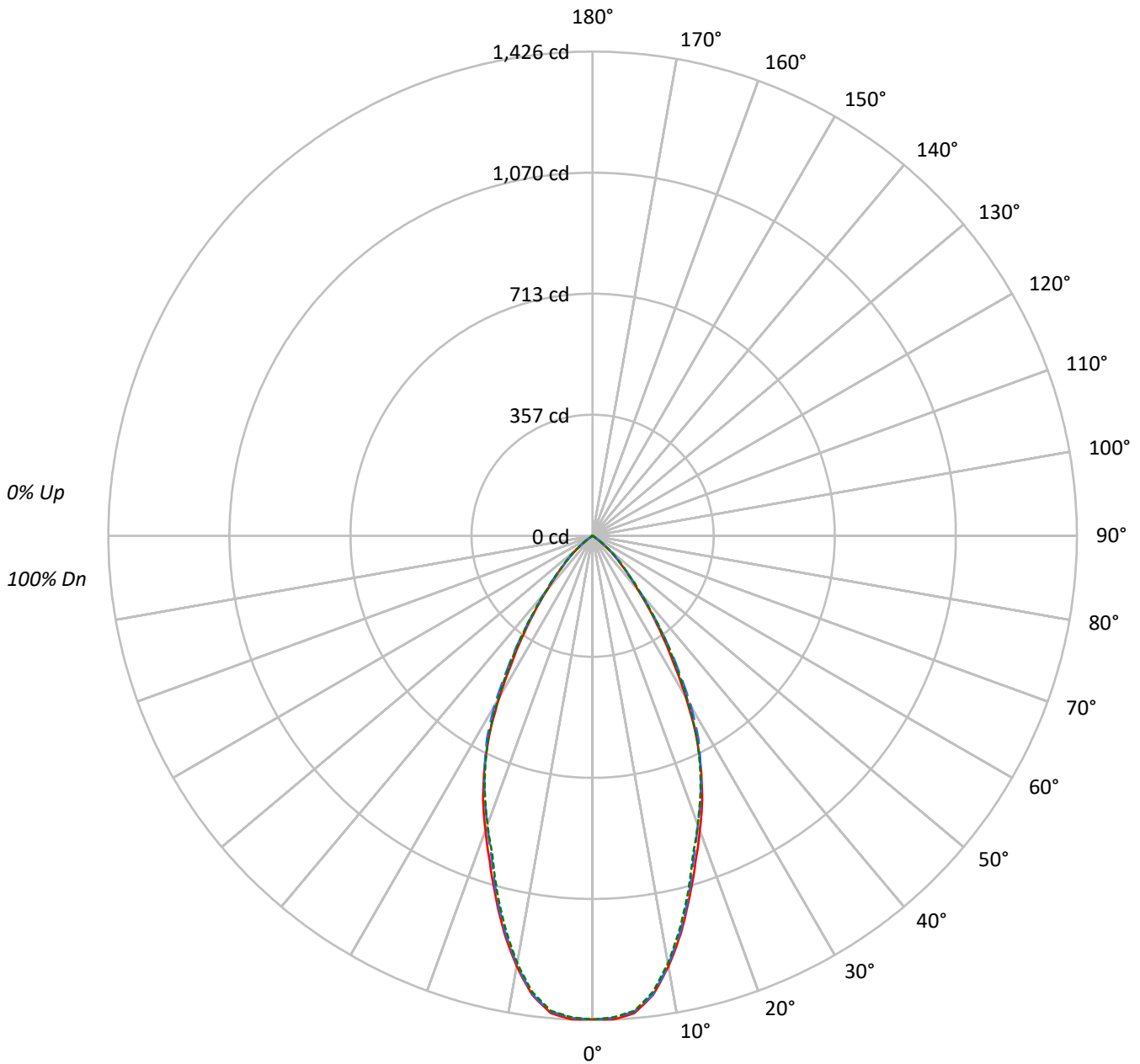
Lumens per Lamp: N/A
Luminaire Lumens: 1124.1 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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	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°	551658	551658	551658
5°	548711	546805	546183
10°	506401	504474	502547
15°	441873	438625	435377
20°	380424	373046	373046
25°	322080	321397	319986
30°	245327	258432	249710
35°	167015	177040	175479
40°	105326	111090	110281
45°	65077	65954	66885
50°	33324	37301	36277
55°	4390	13169	5470
60°	1240	1240	1240
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°	130.3	11.6
10°-20°	304.5	27.1
20°-30°	341.7	30.4
30°-40°	232.1	20.6
40°-50°	97.0	8.6
50°-60°	18.1	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°	776.5	69.1
0°-40°	1008.6	89.7
0°-60°	1123.8	100.0
0°-90°	1124.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1411	1410	1406	1403	1405	131
15°	1102	1099	1094	1084	1086	307
25°	754	760	752	750	749	341
35°	353	365	374	366	371	224
45°	119	117	120	122	122	94
55°	6	15	20	15	8	13
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°	1424.2	1424.2	1424.2	1424.2	1424.2
2.5°	1425.9	1422.6	1421.0	1419.3	1419.3
5°	1411.2	1409.6	1406.3	1403.1	1404.7
7.5°	1364.0	1362.4	1362.4	1355.9	1355.9
10°	1287.5	1287.5	1282.6	1282.6	1277.7
12.5°	1199.6	1193.1	1193.1	1188.2	1185.0
15°	1101.9	1098.7	1093.8	1084.0	1085.7
17.5°	1007.5	1001.0	991.3	986.4	983.1
20°	922.9	921.3	905.0	901.7	905.0
22.5°	843.1	844.8	831.7	828.5	828.5
25°	753.6	760.1	752.0	750.4	748.7
27.5°	657.6	669.0	673.9	662.5	660.8
30°	548.5	568.1	577.8	566.4	558.3
32.5°	442.7	462.3	472.0	463.9	459.0
35°	353.2	364.6	374.4	366.2	371.1
37.5°	276.7	283.2	286.5	286.5	286.5
40°	208.3	214.9	219.7	221.4	218.1
42.5°	157.9	161.1	164.4	166.0	164.4
45°	118.8	117.2	120.4	122.1	122.1
47.5°	86.3	86.3	87.9	89.5	89.5
50°	55.3	58.6	61.9	60.2	60.2
52.5°	24.4	34.2	40.7	34.2	27.7
55°	6.5	14.6	19.5	14.6	8.1
57.5°	1.6	4.9	6.5	4.9	3.3
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
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)