

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 EU2B20WFL558035 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: LD2B20D010 EU2B20WFL558035 2LBDSQLC*MB
Description: 2000 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: 1535.9 lumens
Efficiency: N/A
Efficacy: 73.5 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

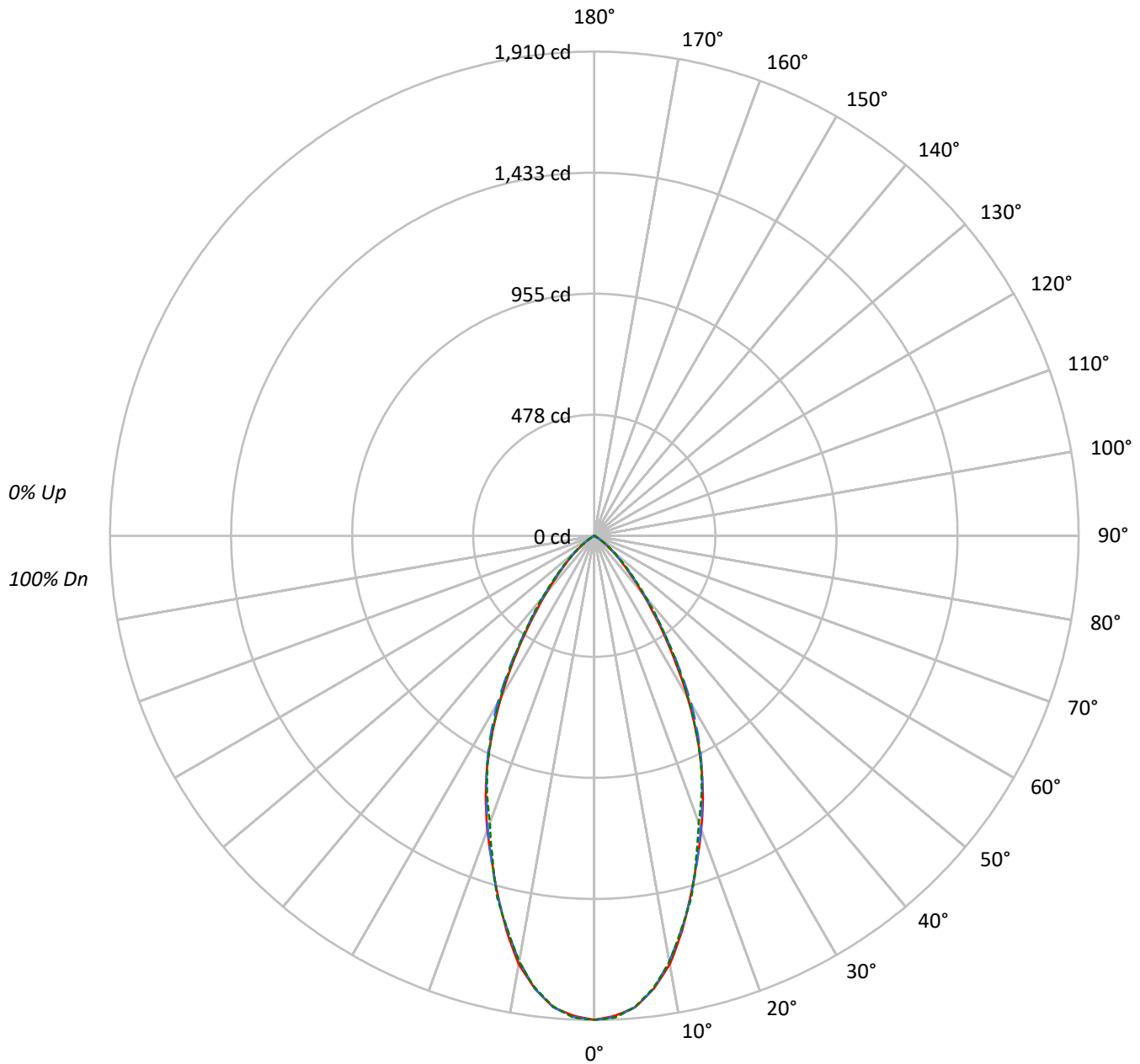
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558035 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558035 2LBDSQLC*MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92
3	102	95	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	83	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	77	73	90	82	77	72	80	75	72		79	74	71		77
6	87	78	72	67	85	77	71	67	76	70	67		74	70	66		73
7	83	73	67	63	81	72	67	62	71	66	62		70	65	62		69
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65
9	75	65	59	55	74	64	59	55	63	58	54		62	58	54		62
10	71	61	55	51	70	61	55	51	60	55	51		59	54	51		58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	739637	739637	739637
5°	725510	725510	724576
10°	674782	670023	671006
15°	588883	589846	592773
20°	508414	506435	496418
25°	426705	428757	425637
30°	328385	341400	331650
35°	229149	238323	236053
40°	149468	155637	160491
45°	91590	96904	100903
50°	54054	58392	61345
55°	22893	29444	27823
60°	3719	7515	5655
65°	2200	2200	2200
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558035 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	11.3
10°-20°	409.2	26.6
20°-30°	453.3	29.5
30°-40°	315.5	20.5
40°-50°	142.0	9.2
50°-60°	40.1	2.6
60°-70°	2.7	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°	1035.5	67.4
0°-40°	1351.0	88.0
0°-60°	1533.1	99.8
0°-90°	1535.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1535.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1866	1873	1866	1859	1864	173
15°	1468	1476	1471	1468	1478	410
25°	998	1006	1003	991	996	453
35°	485	499	504	504	499	306
45°	167	172	177	182	184	135
55°	34	39	44	44	41	34
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558035 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.5	1909.5	1909.5	1909.5	1909.5
2.5°	1895.0	1904.7	1899.8	1899.8	1902.2
5°	1865.9	1873.2	1865.9	1858.6	1863.5
7.5°	1800.5	1807.7	1800.5	1795.6	1798.0
10°	1715.6	1710.8	1703.5	1698.7	1706.0
12.5°	1596.9	1594.5	1589.6	1587.2	1587.2
15°	1468.5	1475.7	1470.9	1468.5	1478.2
17.5°	1344.9	1352.2	1347.3	1340.0	1335.2
20°	1233.4	1235.8	1228.6	1216.5	1204.3
22.5°	1119.5	1122.0	1109.8	1105.0	1105.0
25°	998.4	1005.6	1003.2	991.1	995.9
27.5°	867.5	879.6	884.5	869.9	869.9
30°	734.2	743.9	763.3	743.9	741.5
32.5°	603.4	617.9	627.6	625.2	617.9
35°	484.6	499.2	504.0	504.0	499.2
37.5°	378.0	392.6	397.4	402.3	402.3
40°	295.6	302.9	307.8	315.0	317.4
42.5°	222.9	230.2	237.5	242.3	239.9
45°	167.2	172.0	176.9	181.7	184.2
47.5°	126.0	126.0	130.9	135.7	135.7
50°	89.7	94.5	96.9	99.4	101.8
52.5°	60.6	63.0	67.9	70.3	67.9
55°	33.9	38.8	43.6	43.6	41.2
57.5°	14.5	21.8	24.2	24.2	19.4
60°	4.8	9.7	9.7	12.1	7.3
62.5°	2.4	4.8	4.8	4.8	2.4
65°	2.4	2.4	2.4	2.4	2.4
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)