

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 EU2B20WFL559024 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 EU2B20WFL559024 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: 1090.2 lumens
Efficiency: N/A
Efficacy: 52.2 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

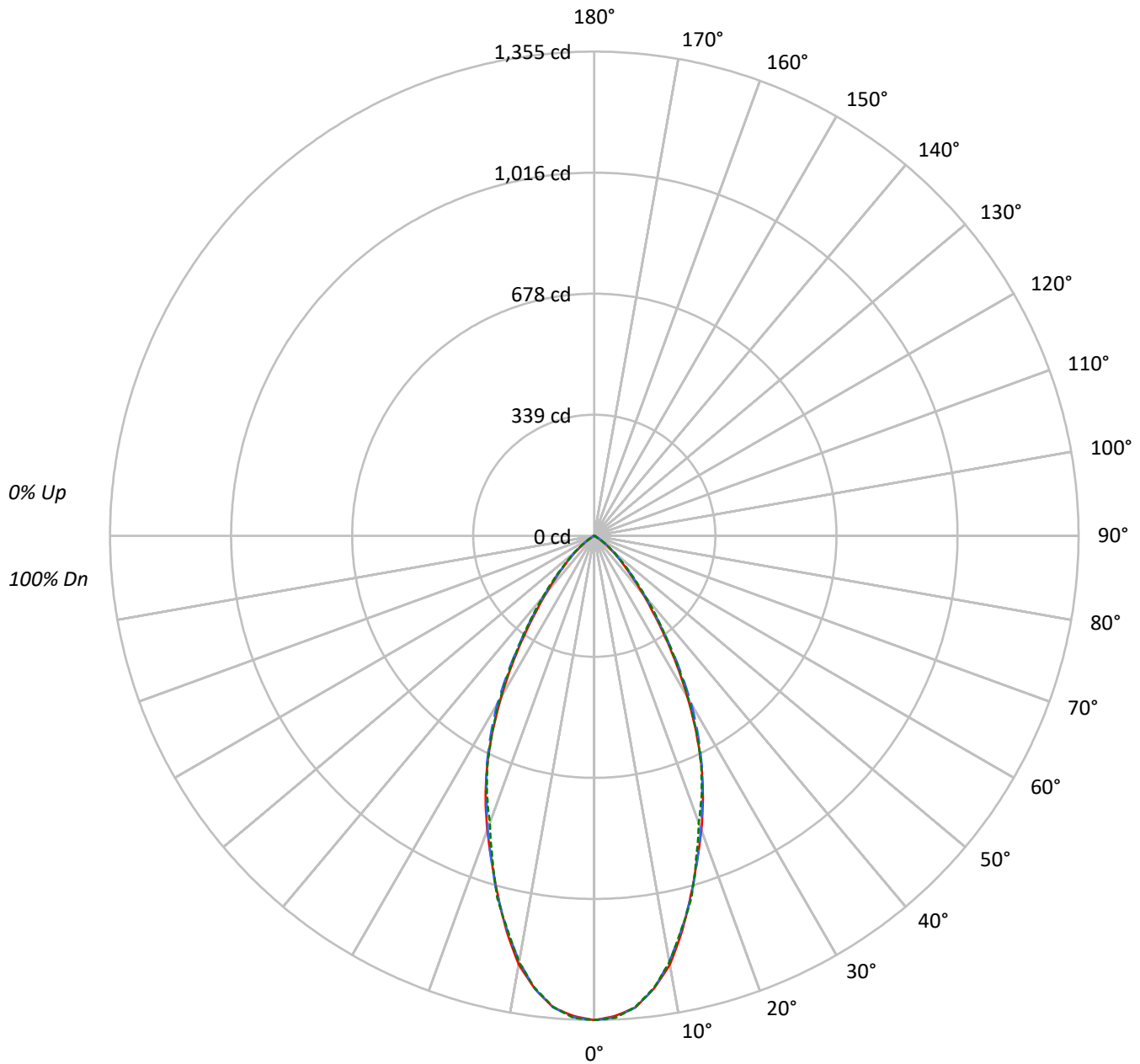
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	525009	525009	525009
5°	514961	514961	514300
10°	478987	475604	476273
15°	417973	418695	420740
20°	360885	359484	352394
25°	302891	304344	302121
30°	233116	242330	235397
35°	162665	169190	167535
40°	106084	110433	113922
45°	65023	68802	71596
50°	38326	41459	43508
55°	16275	20935	19719
60°	2634	5345	4028
65°	1558	1558	1558
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°	122.8	11.3
10°-20°	290.5	26.6
20°-30°	321.8	29.5
30°-40°	223.9	20.5
40°-50°	100.8	9.2
50°-60°	28.5	2.6
60°-70°	1.9	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°	735.0	67.4
0°-40°	959.0	88.0
0°-60°	1088.2	99.8
0°-90°	1090.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1324	1330	1324	1319	1323	123
15°	1042	1048	1044	1042	1049	291
25°	709	714	712	704	707	321
35°	344	354	358	358	354	217
45°	119	122	126	129	131	96
55°	24	28	31	31	29	24
65°	2	2	2	2	2	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°	1355.4	1355.4	1355.4	1355.4	1355.4
2.5°	1345.1	1352.0	1348.5	1348.5	1350.2
5°	1324.4	1329.6	1324.4	1319.3	1322.7
7.5°	1278.0	1283.2	1278.0	1274.5	1276.3
10°	1217.8	1214.3	1209.2	1205.7	1210.9
12.5°	1133.5	1131.8	1128.3	1126.6	1126.6
15°	1042.3	1047.5	1044.1	1042.3	1049.2
17.5°	954.6	959.8	956.3	951.2	947.7
20°	875.5	877.2	872.1	863.5	854.9
22.5°	794.7	796.4	787.8	784.3	784.3
25°	708.7	713.8	712.1	703.5	706.9
27.5°	615.8	624.4	627.8	617.5	617.5
30°	521.2	528.1	541.8	528.1	526.3
32.5°	428.3	438.6	445.5	443.8	438.6
35°	344.0	354.3	357.8	357.8	354.3
37.5°	268.3	278.6	282.1	285.5	285.5
40°	209.8	215.0	218.4	223.6	225.3
42.5°	158.2	163.4	168.6	172.0	170.3
45°	118.7	122.1	125.6	129.0	130.7
47.5°	89.4	89.4	92.9	96.3	96.3
50°	63.6	67.1	68.8	70.5	72.2
52.5°	43.0	44.7	48.2	49.9	48.2
55°	24.1	27.5	31.0	31.0	29.2
57.5°	10.3	15.5	17.2	17.2	13.8
60°	3.4	6.9	6.9	8.6	5.2
62.5°	1.7	3.4	3.4	3.4	1.7
65°	1.7	1.7	1.7	1.7	1.7
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)