

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

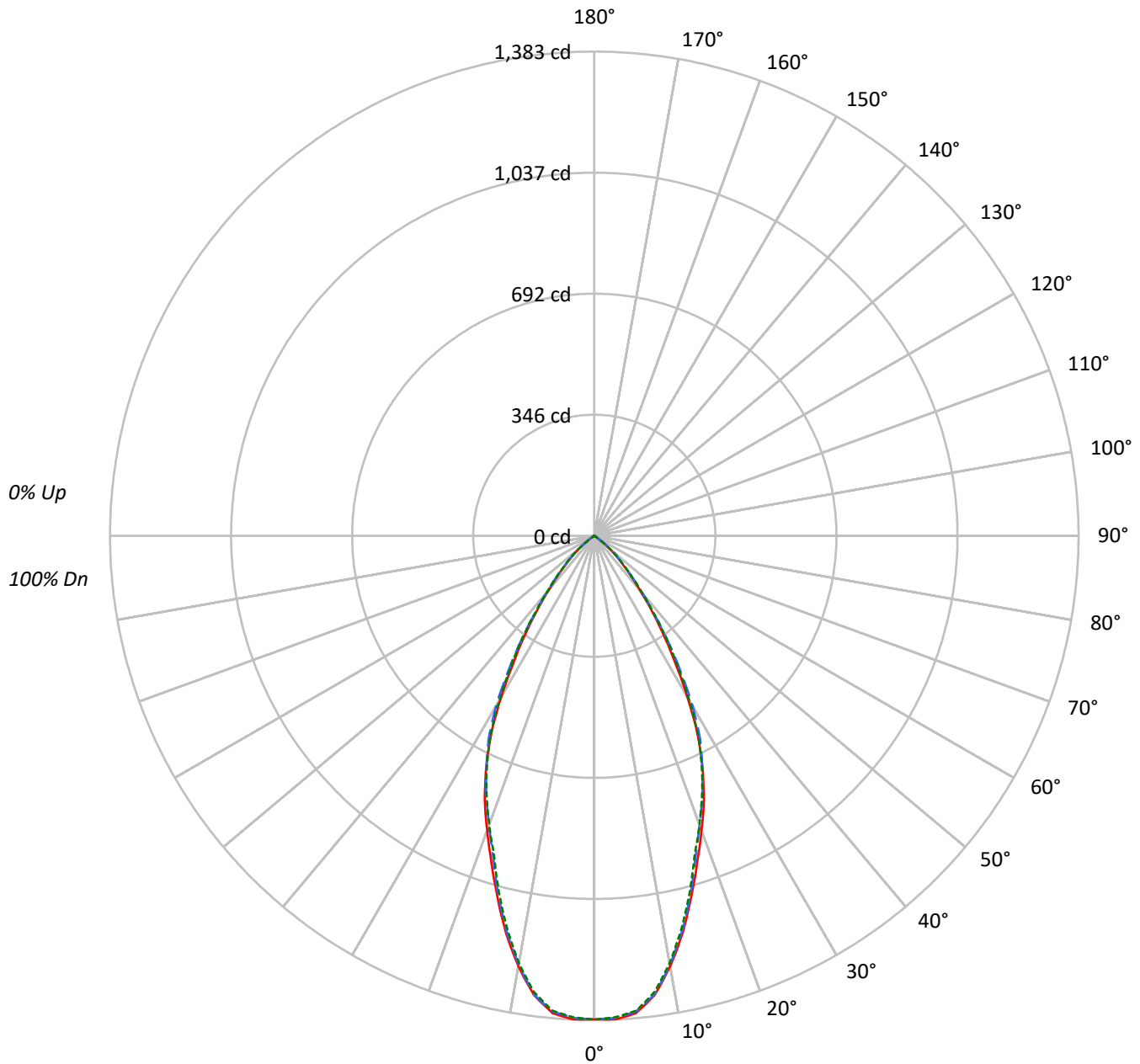
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		89	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	87	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	70	64	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	56	64	59	55		63	59	55		62
10	72	62	56	52	71	62	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	535041	535041	535041
5°	532147	530319	529697
10°	491140	489253	487404
15°	428559	425391	422224
20°	368965	361792	361792
25°	312379	311695	310370
30°	237947	250649	242196
35°	162003	171696	170183
40°	102191	107753	106944
45°	63105	63982	64858
50°	32360	36156	35192
55°	4254	12763	5335
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°	126.4	11.6
10°-20°	295.3	27.1
20°-30°	331.4	30.4
30°-40°	225.1	20.6
40°-50°	94.1	8.6
50°-60°	17.6	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°	753.1	69.1
0°-40°	978.2	89.7
0°-60°	1089.9	100.0
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°	1381	1381	1381	1381	1381	
5°	1369	1367	1364	1361	1362	127
15°	1069	1066	1061	1051	1053	298
25°	731	737	729	728	726	331
35°	343	354	363	355	360	217
45°	115	114	117	118	118	91
55°	6	14	19	14	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°	1381.3	1381.3	1381.3	1381.3	1381.3
2.5°	1382.9	1379.7	1378.1	1376.5	1376.5
5°	1368.6	1367.1	1363.9	1360.8	1362.3
7.5°	1322.9	1321.3	1321.3	1315.0	1315.0
10°	1248.7	1248.7	1243.9	1243.9	1239.2
12.5°	1163.4	1157.1	1157.1	1152.4	1149.2
15°	1068.7	1065.6	1060.8	1051.3	1052.9
17.5°	977.2	970.8	961.4	956.6	953.5
20°	895.1	893.5	877.7	874.5	877.7
22.5°	817.7	819.3	806.7	803.5	803.5
25°	730.9	737.2	729.3	727.7	726.2
27.5°	637.8	648.8	653.5	642.5	640.9
30°	532.0	550.9	560.4	549.4	541.5
32.5°	429.4	448.3	457.8	449.9	445.2
35°	342.6	353.6	363.1	355.2	359.9
37.5°	268.4	274.7	277.8	277.8	277.8
40°	202.1	208.4	213.1	214.7	211.5
42.5°	153.1	156.3	159.4	161.0	159.4
45°	115.2	113.7	116.8	118.4	118.4
47.5°	83.7	83.7	85.2	86.8	86.8
50°	53.7	56.8	60.0	58.4	58.4
52.5°	23.7	33.2	39.5	33.2	26.8
55°	6.3	14.2	18.9	14.2	7.9
57.5°	1.6	4.7	6.3	4.7	3.2
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)