

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 EU2B20WFL559050 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 EU2B20WFL559050 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

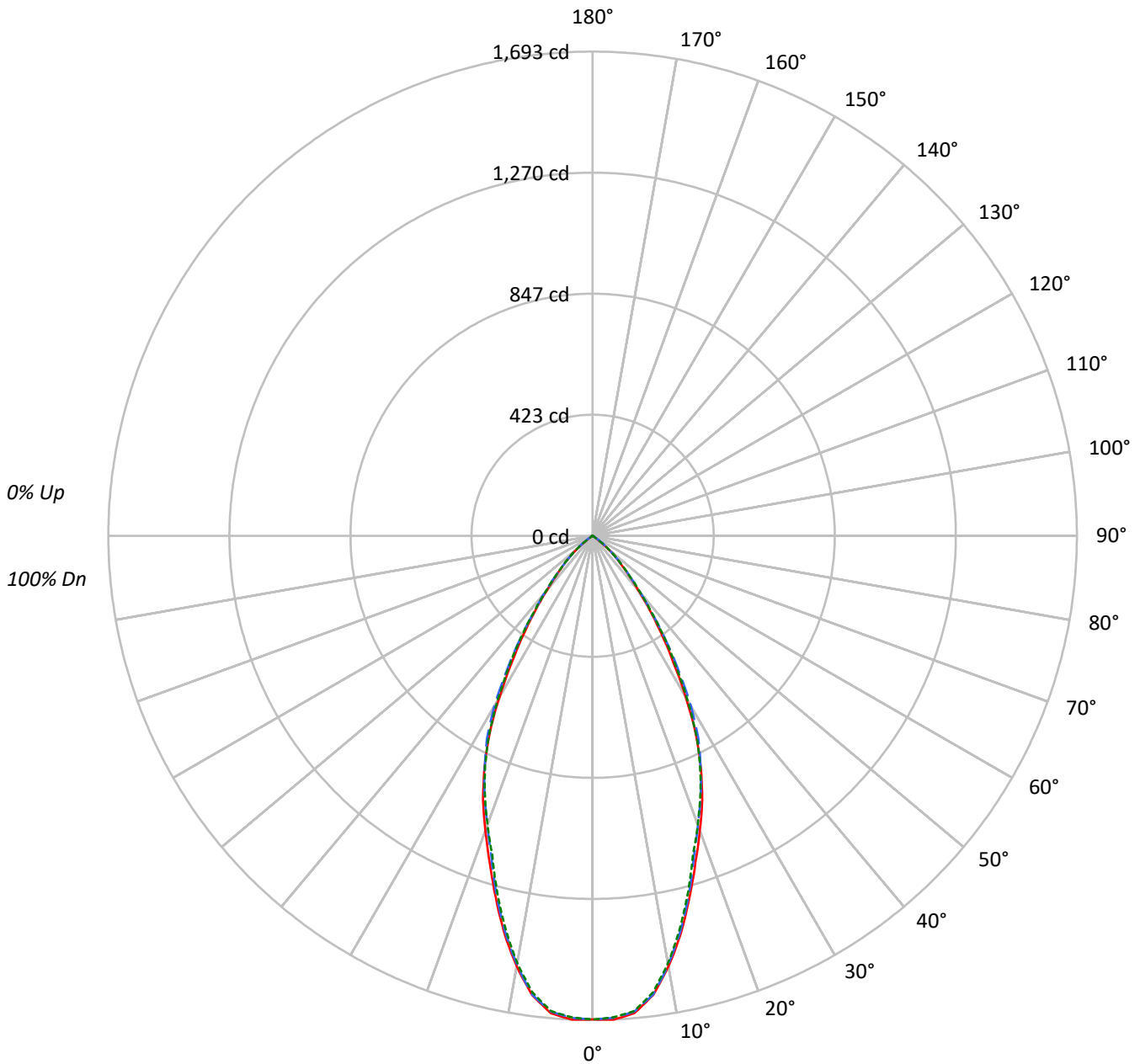
Lumens per Lamp: N/A
Luminaire Lumens: 1334.9 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	655118	655118	655118
5°	651594	649339	648600
10°	601349	599068	596787
15°	524762	520872	517022
20°	451777	442997	442997
25°	382470	381658	379992
30°	291351	306916	296539
35°	198318	210235	208390
40°	125096	131923	130962
45°	77293	78334	79430
50°	39591	44291	43086
55°	5200	15667	6551
60°	1472	1472	1472
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°	154.7	11.6
10°-20°	361.6	27.1
20°-30°	405.8	30.4
30°-40°	275.6	20.6
40°-50°	115.2	8.6
50°-60°	21.5	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°	922.1	69.1
0°-40°	1197.8	89.7
0°-60°	1334.5	100.0
0°-90°	1334.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1676	1674	1670	1666	1668	155
15°	1309	1305	1299	1287	1289	365
25°	895	903	893	891	889	405
35°	419	433	445	435	441	266
45°	141	139	143	145	145	112
55°	8	17	23	17	10	16
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°	1691.3	1691.3	1691.3	1691.3	1691.3
2.5°	1693.2	1689.4	1687.4	1685.5	1685.5
5°	1675.8	1673.9	1670.0	1666.2	1668.1
7.5°	1619.8	1617.9	1617.9	1610.1	1610.1
10°	1528.9	1528.9	1523.1	1523.1	1517.3
12.5°	1424.6	1416.8	1416.8	1411.0	1407.2
15°	1308.6	1304.7	1298.9	1287.3	1289.3
17.5°	1196.5	1188.7	1177.2	1171.4	1167.5
20°	1096.0	1094.0	1074.7	1070.8	1074.7
22.5°	1001.3	1003.2	987.7	983.9	983.9
25°	894.9	902.7	893.0	891.1	889.1
27.5°	780.9	794.4	800.2	786.7	784.8
30°	651.4	674.6	686.2	672.7	663.0
32.5°	525.8	549.0	560.5	550.9	545.1
35°	419.4	433.0	444.6	434.9	440.7
37.5°	328.6	336.3	340.2	340.2	340.2
40°	247.4	255.1	260.9	262.9	259.0
42.5°	187.5	191.4	195.2	197.2	195.2
45°	141.1	139.2	143.0	145.0	145.0
47.5°	102.4	102.4	104.4	106.3	106.3
50°	65.7	69.6	73.5	71.5	71.5
52.5°	29.0	40.6	48.3	40.6	32.9
55°	7.7	17.4	23.2	17.4	9.7
57.5°	1.9	5.8	7.7	5.8	3.9
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.0	0.0	0.0	1.9
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)