

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 EU2B20WFL558027 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 EU2B20WFL558027 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: 1489.9 lumens
Efficiency: N/A
Efficacy: 71.3 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

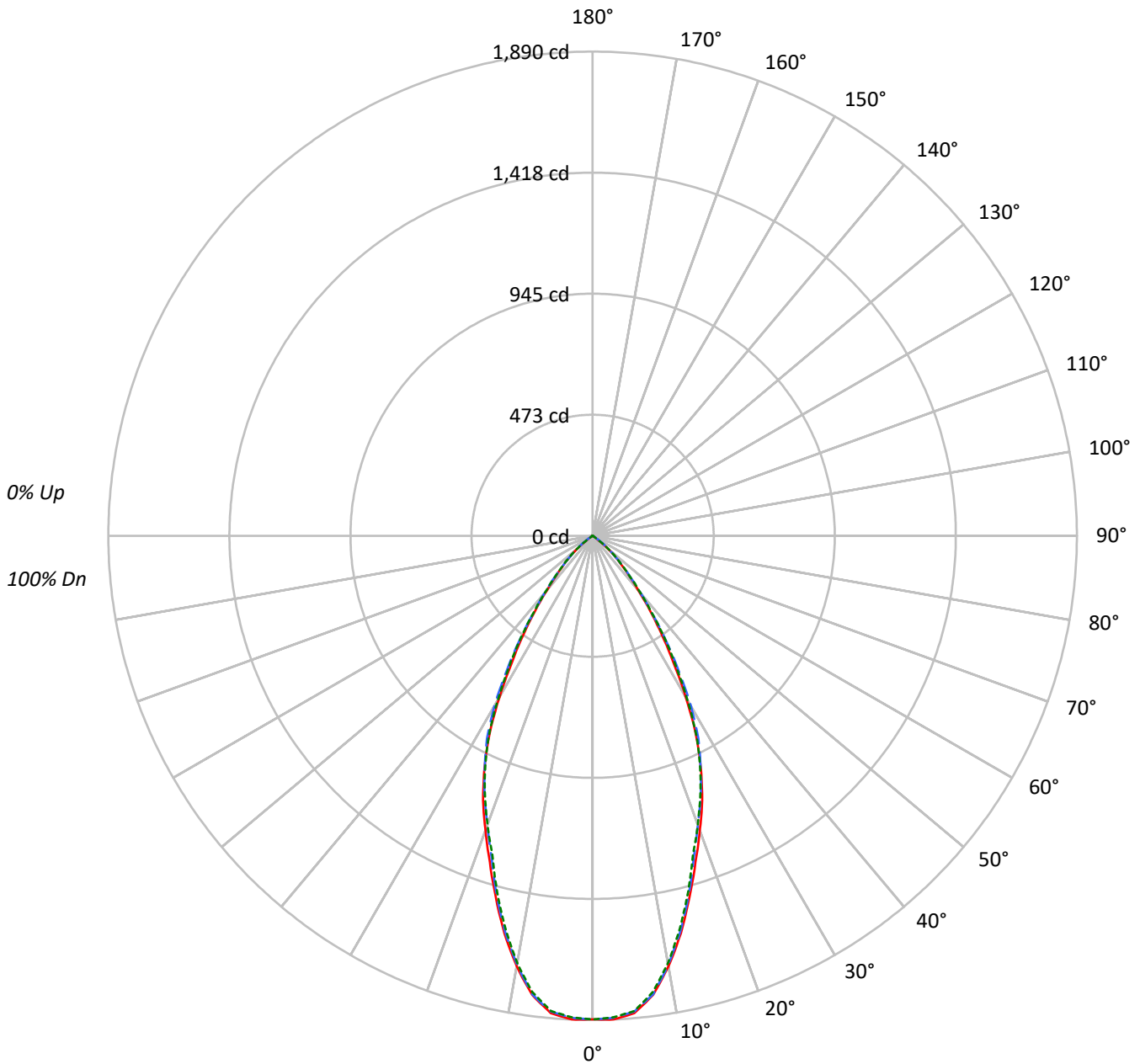
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	731193	731193	731193
5°	727259	724771	723915
10°	671203	668646	666090
15°	585675	581344	577053
20°	504209	494440	494440
25°	426919	425979	424141
30°	325164	342563	330979
35°	221347	234634	232601
40°	139608	147244	146182
45°	86277	87427	88632
50°	44231	49413	48088
55°	5808	17491	7293
60°	1704	1704	1704
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°	172.7	11.6
10°-20°	403.6	27.1
20°-30°	452.9	30.4
30°-40°	307.6	20.6
40°-50°	128.6	8.6
50°-60°	24.0	1.6
60°-70°	0.4	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°	1029.2	69.1
0°-40°	1336.9	89.7
0°-60°	1489.5	100.0
0°-90°	1489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1870	1868	1864	1860	1862	173
15°	1460	1456	1450	1437	1439	407
25°	999	1008	997	994	992	452
35°	468	483	496	485	492	297
45°	158	155	160	162	162	125
55°	9	19	26	19	11	18
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.7	1887.7	1887.7	1887.7	1887.7
2.5°	1889.9	1885.5	1883.4	1881.2	1881.2
5°	1870.4	1868.3	1864.0	1859.6	1861.8
7.5°	1807.9	1805.7	1805.7	1797.1	1797.1
10°	1706.5	1706.5	1700.0	1700.0	1693.5
12.5°	1590.0	1581.3	1581.3	1574.9	1570.6
15°	1460.5	1456.2	1449.7	1436.8	1439.0
17.5°	1335.4	1326.8	1313.8	1307.4	1303.0
20°	1223.2	1221.1	1199.5	1195.2	1199.5
22.5°	1117.5	1119.7	1102.4	1098.1	1098.1
25°	998.9	1007.5	996.7	994.5	992.4
27.5°	871.6	886.7	893.1	878.0	875.9
30°	727.0	752.9	765.9	750.8	740.0
32.5°	586.8	612.7	625.6	614.8	608.4
35°	468.1	483.2	496.2	485.4	491.9
37.5°	366.8	375.4	379.7	379.7	379.7
40°	276.1	284.8	291.2	293.4	289.1
42.5°	209.3	213.6	217.9	220.1	217.9
45°	157.5	155.3	159.6	161.8	161.8
47.5°	114.3	114.3	116.5	118.7	118.7
50°	73.4	77.7	82.0	79.8	79.8
52.5°	32.4	45.3	53.9	45.3	36.7
55°	8.6	19.4	25.9	19.4	10.8
57.5°	2.2	6.5	8.6	6.5	4.3
60°	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	0.0	0.0	0.0	2.2
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)