

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 EU2B20WFL558050 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 EU2B20WFL558050 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

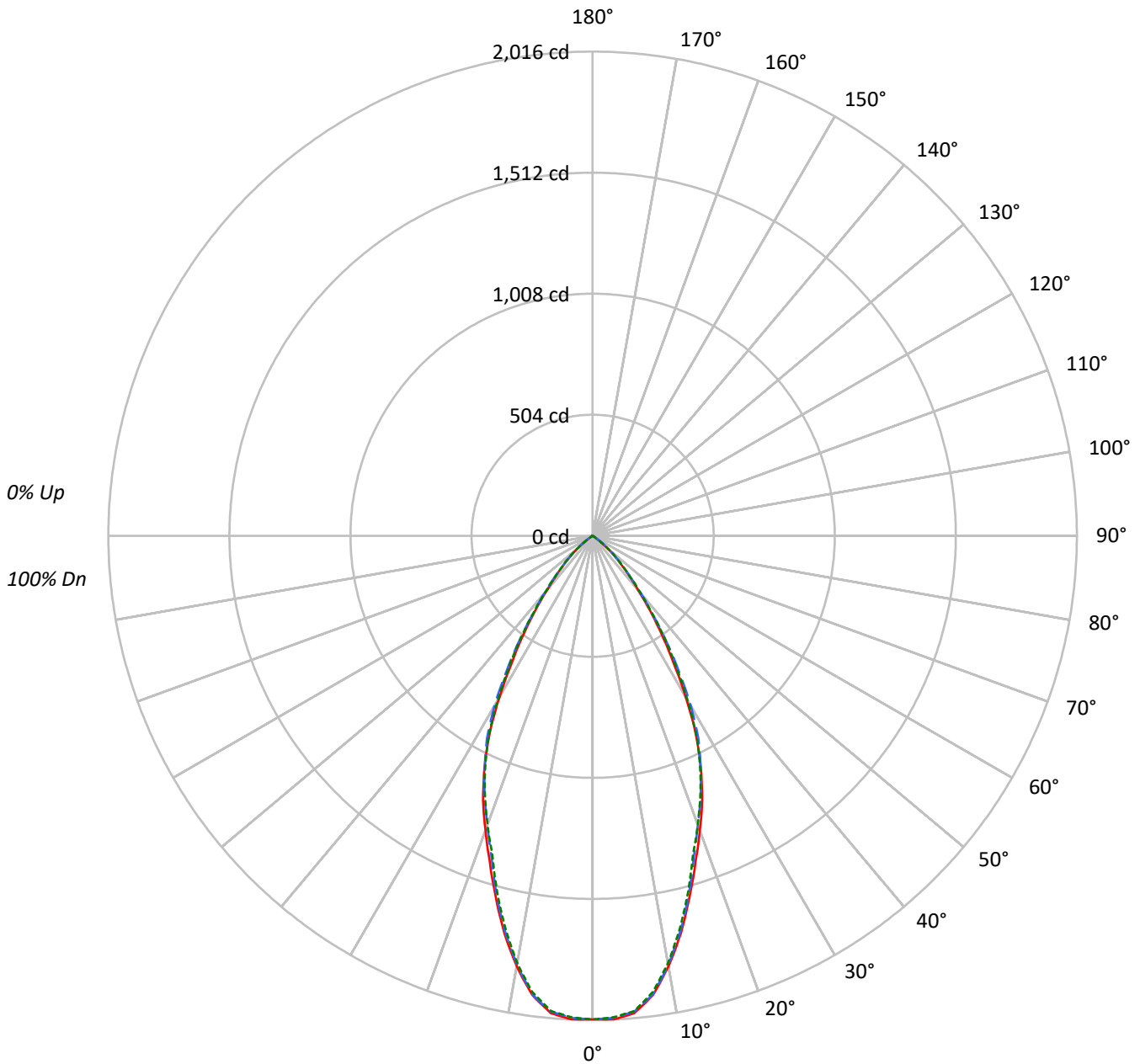
Lumens per Lamp: N/A
Luminaire Lumens: 1589.2 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDSQC*MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94				94
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81				81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75				75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70				70
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65				65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61				61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57				57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54				54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51				51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	779921	779921	779921
5°	775746	773063	772169
10°	715924	713210	710496
15°	624734	620122	615510
20°	537845	527375	527375
25°	455340	454357	452391
30°	346857	365374	353029
35°	236100	250286	248111
40°	148912	157104	155941
45°	92029	93289	94549
50°	47124	52668	51282
55°	6213	18639	7766
60°	1782	1782	1782
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	11.6
10°-20°	430.5	27.1
20°-30°	483.1	30.4
30°-40°	328.2	20.6
40°-50°	137.2	8.6
50°-60°	25.6	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°	1097.8	69.1
0°-40°	1426.0	89.7
0°-60°	1588.8	100.0
0°-90°	1589.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	1995	1993	1988	1984	1986	185
15°	1558	1553	1546	1533	1535	435
25°	1065	1075	1063	1061	1058	482
35°	499	516	529	518	525	316
45°	168	166	170	173	173	133
55°	9	21	28	21	12	19
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



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.5	2013.5	2013.5	2013.5	2013.5
2.5°	2015.8	2011.2	2008.9	2006.6	2006.6
5°	1995.1	1992.8	1988.2	1983.6	1985.9
7.5°	1928.4	1926.1	1926.1	1916.9	1916.9
10°	1820.2	1820.2	1813.3	1813.3	1806.4
12.5°	1695.9	1686.7	1686.7	1679.8	1675.2
15°	1557.9	1553.3	1546.4	1532.6	1534.9
17.5°	1424.4	1415.2	1401.4	1394.5	1389.9
20°	1304.8	1302.5	1279.4	1274.8	1279.4
22.5°	1192.0	1194.3	1175.9	1171.3	1171.3
25°	1065.4	1074.6	1063.1	1060.8	1058.5
27.5°	929.7	945.8	952.7	936.6	934.3
30°	775.5	803.1	816.9	800.8	789.3
32.5°	625.9	653.5	667.3	655.8	648.9
35°	499.3	515.5	529.3	517.8	524.7
37.5°	391.2	400.4	405.0	405.0	405.0
40°	294.5	303.8	310.7	313.0	308.4
42.5°	223.2	227.8	232.4	234.7	232.4
45°	168.0	165.7	170.3	172.6	172.6
47.5°	122.0	122.0	124.3	126.6	126.6
50°	78.2	82.8	87.4	85.1	85.1
52.5°	34.5	48.3	57.5	48.3	39.1
55°	9.2	20.7	27.6	20.7	11.5
57.5°	2.3	6.9	9.2	6.9	4.6
60°	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	0.0	0.0	0.0	2.3
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)