

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 EU2B20WFL559730 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 EU2B20WFL559730 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

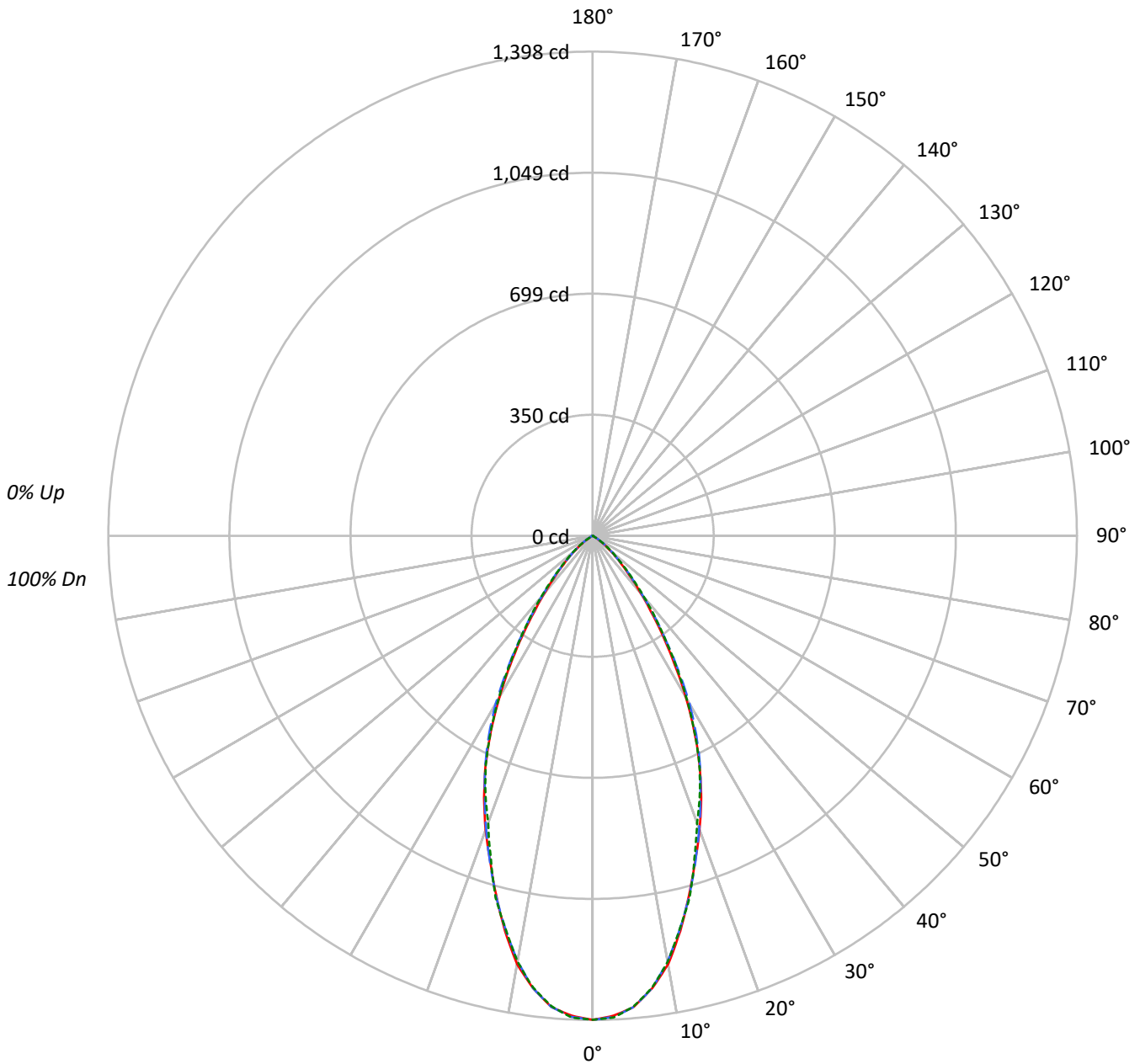
Lumens per Lamp: N/A
Luminaire Lumens: 1124.1 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (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 EU2B20WFL559730 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559730 2LBDSQLC*MB

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	541316	541316	541316
5°	530980	530980	530280
10°	493894	490393	491101
15°	431006	431687	433853
20°	372097	370655	363317
25°	312293	313789	311524
30°	240362	249889	242733
35°	167724	174439	172737
40°	109421	113871	117461
45°	67049	70939	73842
50°	39531	42725	44894
55°	16748	21543	20327
60°	2711	5500	4106
65°	1650	1650	1650
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559730 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	11.3
10°-20°	299.5	26.6
20°-30°	331.8	29.5
30°-40°	230.9	20.5
40°-50°	104.0	9.2
50°-60°	29.3	2.6
60°-70°	2.0	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°	757.9	67.4
0°-40°	988.8	88.0
0°-60°	1122.1	99.8
0°-90°	1124.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1366	1371	1366	1360	1364	127
15°	1075	1080	1076	1075	1082	300
25°	731	736	734	725	729	331
35°	355	365	369	369	365	224
45°	122	126	130	133	135	99
55°	25	28	32	32	30	25
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	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL559730 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1386.9	1394.0	1390.4	1390.4	1392.2
5°	1365.6	1370.9	1365.6	1360.3	1363.8
7.5°	1317.7	1323.0	1317.7	1314.2	1316.0
10°	1255.7	1252.1	1246.8	1243.2	1248.6
12.5°	1168.8	1167.0	1163.4	1161.7	1161.7
15°	1074.8	1080.1	1076.5	1074.8	1081.9
17.5°	984.3	989.6	986.1	980.8	977.2
20°	902.7	904.5	899.2	890.3	881.4
22.5°	819.4	821.1	812.3	808.7	808.7
25°	730.7	736.0	734.2	725.4	728.9
27.5°	634.9	643.8	647.3	636.7	636.7
30°	537.4	544.5	558.7	544.5	542.7
32.5°	441.6	452.2	459.3	457.6	452.2
35°	354.7	365.3	368.9	368.9	365.3
37.5°	276.7	287.3	290.9	294.4	294.4
40°	216.4	221.7	225.2	230.6	232.3
42.5°	163.2	168.5	173.8	177.4	175.6
45°	122.4	125.9	129.5	133.0	134.8
47.5°	92.2	92.2	95.8	99.3	99.3
50°	65.6	69.2	70.9	72.7	74.5
52.5°	44.3	46.1	49.7	51.4	49.7
55°	24.8	28.4	31.9	31.9	30.1
57.5°	10.6	16.0	17.7	17.7	14.2
60°	3.5	7.1	7.1	8.9	5.3
62.5°	1.8	3.5	3.5	3.5	1.8
65°	1.8	1.8	1.8	1.8	1.8
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)