

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 EU2B20WFL559027 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 EU2B20WFL559027 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

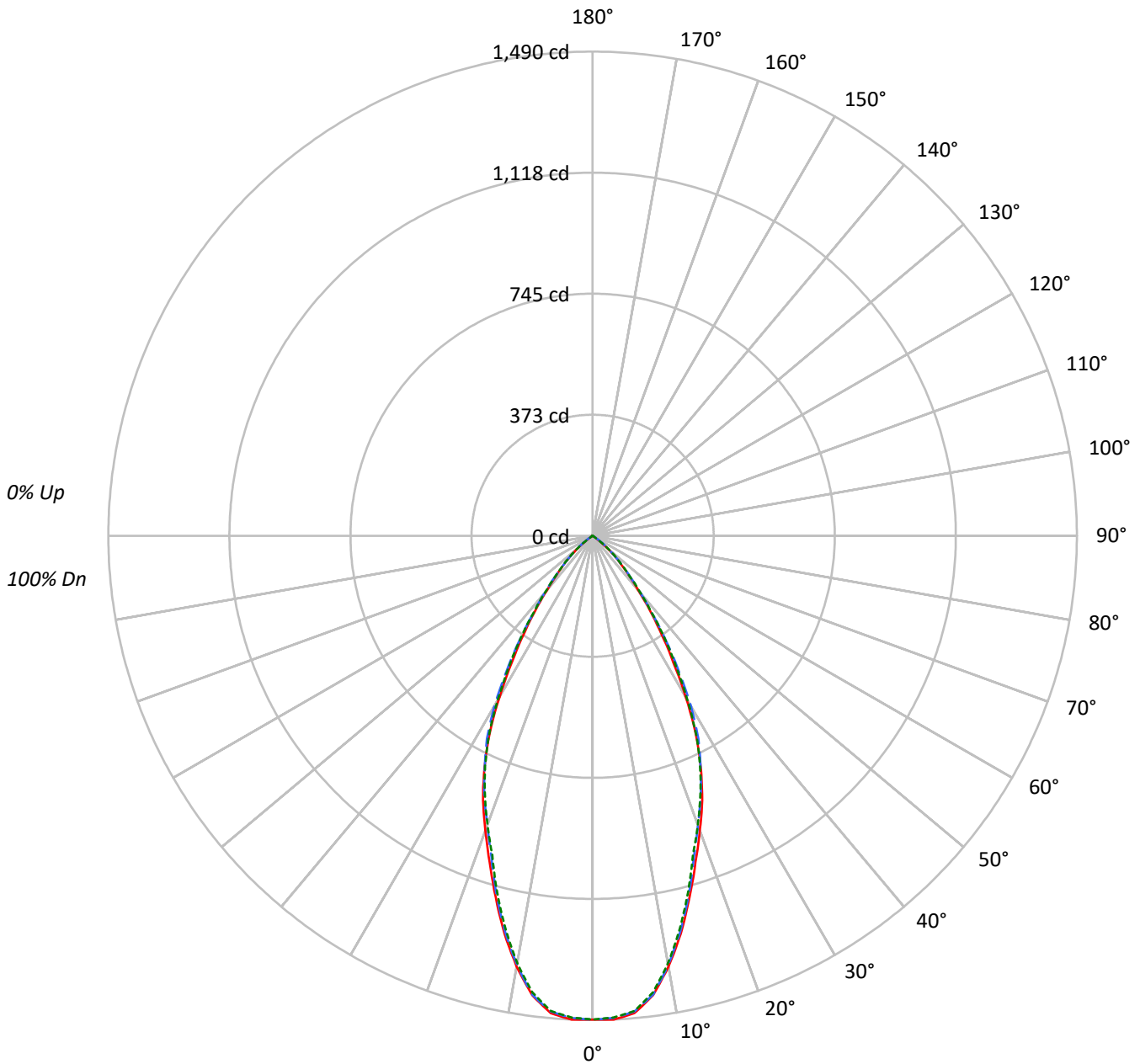
Lumens per Lamp: N/A
Luminaire Lumens: 1175.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (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°	576642	576642	576642
5°	573557	571574	570913
10°	529332	527326	525320
15°	461883	458475	455066
20°	397654	389946	389946
25°	336654	335928	334475
30°	256464	270150	261026
35°	174581	185031	183423
40°	110129	116146	115287
45°	68036	68967	69898
50°	34830	38988	37964
55°	4592	13776	5740
60°	1317	1317	1317
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°	136.2	11.6
10°-20°	318.3	27.1
20°-30°	357.2	30.4
30°-40°	242.6	20.6
40°-50°	101.4	8.6
50°-60°	19.0	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°	811.7	69.1
0°-40°	1054.3	89.7
0°-60°	1174.7	100.0
0°-90°	1175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1475	1473	1470	1467	1468	137
15°	1152	1148	1143	1133	1135	321
25°	788	794	786	784	783	356
35°	369	381	391	383	388	234
45°	124	122	126	128	128	98
55°	7	15	20	15	8	14
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°	1488.7	1488.7	1488.7	1488.7	1488.7
2.5°	1490.4	1487.0	1485.3	1483.6	1483.6
5°	1475.1	1473.4	1470.0	1466.6	1468.3
7.5°	1425.8	1424.1	1424.1	1417.3	1417.3
10°	1345.8	1345.8	1340.7	1340.7	1335.6
12.5°	1253.9	1247.1	1247.1	1242.0	1238.6
15°	1151.8	1148.4	1143.3	1133.1	1134.8
17.5°	1053.2	1046.4	1036.1	1031.0	1027.6
20°	964.7	963.0	946.0	942.6	946.0
22.5°	881.3	883.0	869.4	866.0	866.0
25°	787.7	794.5	786.0	784.3	782.6
27.5°	687.4	699.3	704.4	692.5	690.8
30°	573.4	593.8	604.0	592.1	583.6
32.5°	462.8	483.2	493.4	484.9	479.8
35°	369.2	381.1	391.3	382.8	387.9
37.5°	289.2	296.0	299.4	299.4	299.4
40°	217.8	224.6	229.7	231.4	228.0
42.5°	165.0	168.4	171.8	173.5	171.8
45°	124.2	122.5	125.9	127.6	127.6
47.5°	90.2	90.2	91.9	93.6	93.6
50°	57.8	61.3	64.7	63.0	63.0
52.5°	25.5	35.7	42.5	35.7	28.9
55°	6.8	15.3	20.4	15.3	8.5
57.5°	1.7	5.1	6.8	5.1	3.4
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.0	0.0	0.0	1.7
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)