

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: **LD2B10D010 EU2B10WFL559035 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: LD2B10D010 EU2B10WFL559035 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

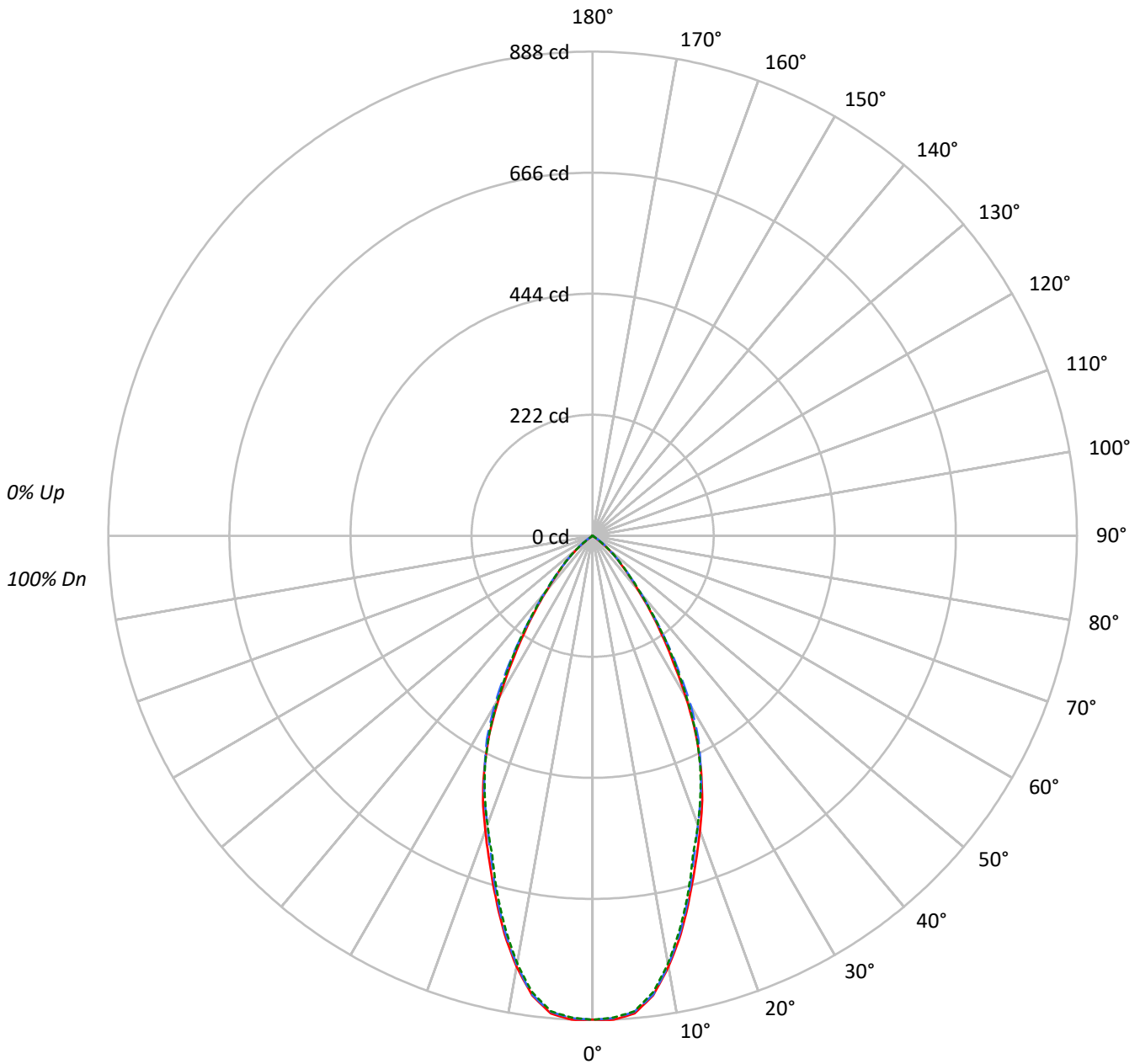
Lumens per Lamp: N/A
Luminaire Lumens: 700.5 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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	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°	343770	343770	343770
5°	341933	340767	340378
10°	315562	314382	313163
15°	275374	273328	271323
20°	237059	232484	232484
25°	200702	200274	199420
30°	152876	161061	155605
35°	104077	110319	109373
40°	65633	69223	68717
45°	40536	41139	41687
50°	20790	23200	22598
55°	2769	8239	3444
60°	775	775	775
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°	81.2	11.6
10°-20°	189.8	27.1
20°-30°	213.0	30.4
30°-40°	144.6	20.6
40°-50°	60.5	8.6
50°-60°	11.3	1.6
60°-70°	0.2	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°	483.9	69.1
0°-40°	628.6	89.7
0°-60°	700.3	100.0
0°-90°	700.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	879	878	876	874	875	81
15°	687	685	682	676	677	192
25°	470	474	469	468	467	212
35°	220	227	233	228	231	139
45°	74	73	75	76	76	59
55°	4	9	12	9	5	8
65°	0	0	0	0	0	0
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°	887.5	887.5	887.5	887.5	887.5
2.5°	888.5	886.5	885.5	884.5	884.5
5°	879.4	878.4	876.4	874.3	875.4
7.5°	850.0	849.0	849.0	844.9	844.9
10°	802.3	802.3	799.3	799.3	796.2
12.5°	747.6	743.5	743.5	740.5	738.4
15°	686.7	684.7	681.6	675.5	676.6
17.5°	627.9	623.8	617.7	614.7	612.6
20°	575.1	574.1	564.0	561.9	564.0
22.5°	525.4	526.4	518.3	516.3	516.3
25°	469.6	473.7	468.6	467.6	466.6
27.5°	409.8	416.9	419.9	412.8	411.8
30°	341.8	354.0	360.1	353.0	347.9
32.5°	275.9	288.1	294.2	289.1	286.0
35°	220.1	227.2	233.3	228.2	231.3
37.5°	172.4	176.5	178.5	178.5	178.5
40°	129.8	133.9	136.9	137.9	135.9
42.5°	98.4	100.4	102.4	103.5	102.4
45°	74.0	73.0	75.1	76.1	76.1
47.5°	53.8	53.8	54.8	55.8	55.8
50°	34.5	36.5	38.5	37.5	37.5
52.5°	15.2	21.3	25.4	21.3	17.2
55°	4.1	9.1	12.2	9.1	5.1
57.5°	1.0	3.0	4.1	3.0	2.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)