

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 EU2B10WFL558040 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 EU2B10WFL558040 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: 880.6 lumens
Efficiency: N/A
Efficacy: 85.5 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

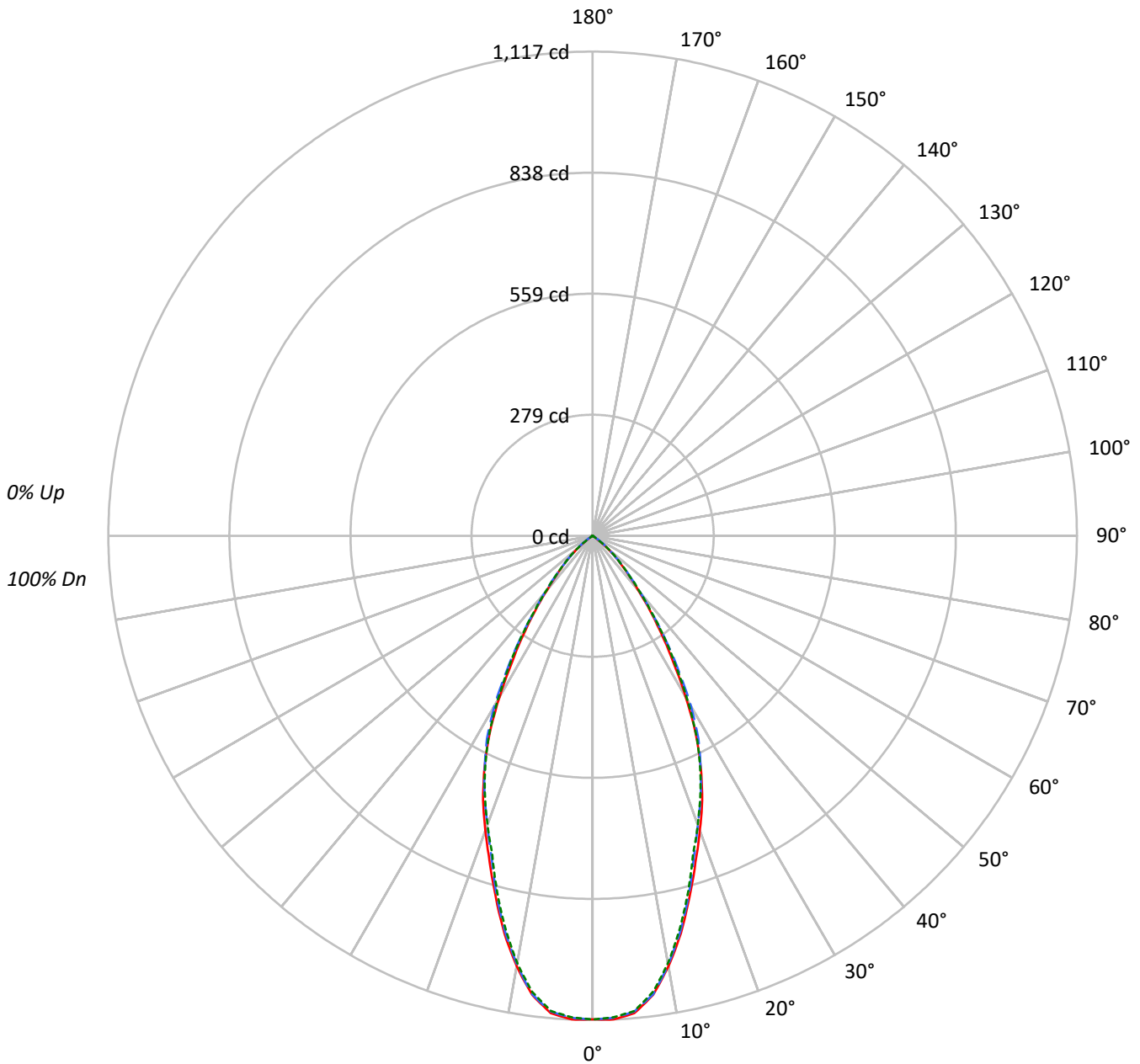
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	432162	432162	432162
5°	429847	428369	427864
10°	396704	395209	393715
15°	346152	343626	341059
20°	298024	292253	292253
25°	252330	251775	250664
30°	192191	202479	195635
35°	130841	138690	137461
40°	82521	87021	86415
45°	50999	51711	52369
50°	26153	29226	28443
55°	3444	10332	4322
60°	1007	1007	1007
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°	102.1	11.6
10°-20°	238.6	27.1
20°-30°	267.7	30.4
30°-40°	181.8	20.6
40°-50°	76.0	8.6
50°-60°	14.2	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°	608.3	69.1
0°-40°	790.2	89.7
0°-60°	880.4	100.0
0°-90°	880.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1106	1104	1102	1099	1100	102
15°	863	861	857	849	850	241
25°	590	596	589	588	586	267
35°	277	286	293	287	291	175
45°	93	92	94	96	96	74
55°	5	12	15	12	6	10
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°	1115.7	1115.7	1115.7	1115.7	1115.7
2.5°	1117.0	1114.4	1113.2	1111.9	1111.9
5°	1105.5	1104.2	1101.7	1099.1	1100.4
7.5°	1068.5	1067.3	1067.3	1062.2	1062.2
10°	1008.6	1008.6	1004.8	1004.8	1001.0
12.5°	939.8	934.6	934.6	930.8	928.3
15°	863.2	860.7	856.9	849.2	850.5
17.5°	789.3	784.2	776.5	772.7	770.2
20°	723.0	721.7	709.0	706.4	709.0
22.5°	660.5	661.8	651.6	649.0	649.0
25°	590.4	595.5	589.1	587.8	586.5
27.5°	515.1	524.1	527.9	519.0	517.7
30°	429.7	445.0	452.7	443.7	437.4
32.5°	346.8	362.1	369.8	363.4	359.6
35°	276.7	285.6	293.3	286.9	290.7
37.5°	216.8	221.9	224.4	224.4	224.4
40°	163.2	168.3	172.1	173.4	170.9
42.5°	123.7	126.2	128.8	130.1	128.8
45°	93.1	91.8	94.4	95.6	95.6
47.5°	67.6	67.6	68.9	70.1	70.1
50°	43.4	45.9	48.5	47.2	47.2
52.5°	19.1	26.8	31.9	26.8	21.7
55°	5.1	11.5	15.3	11.5	6.4
57.5°	1.3	3.8	5.1	3.8	2.6
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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



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







(END OF REPORT)