

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 EU2B20WFL559035 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 EU2B20WFL559035 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: 1271.9 lumens
Efficiency: N/A
Efficacy: 60.9 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

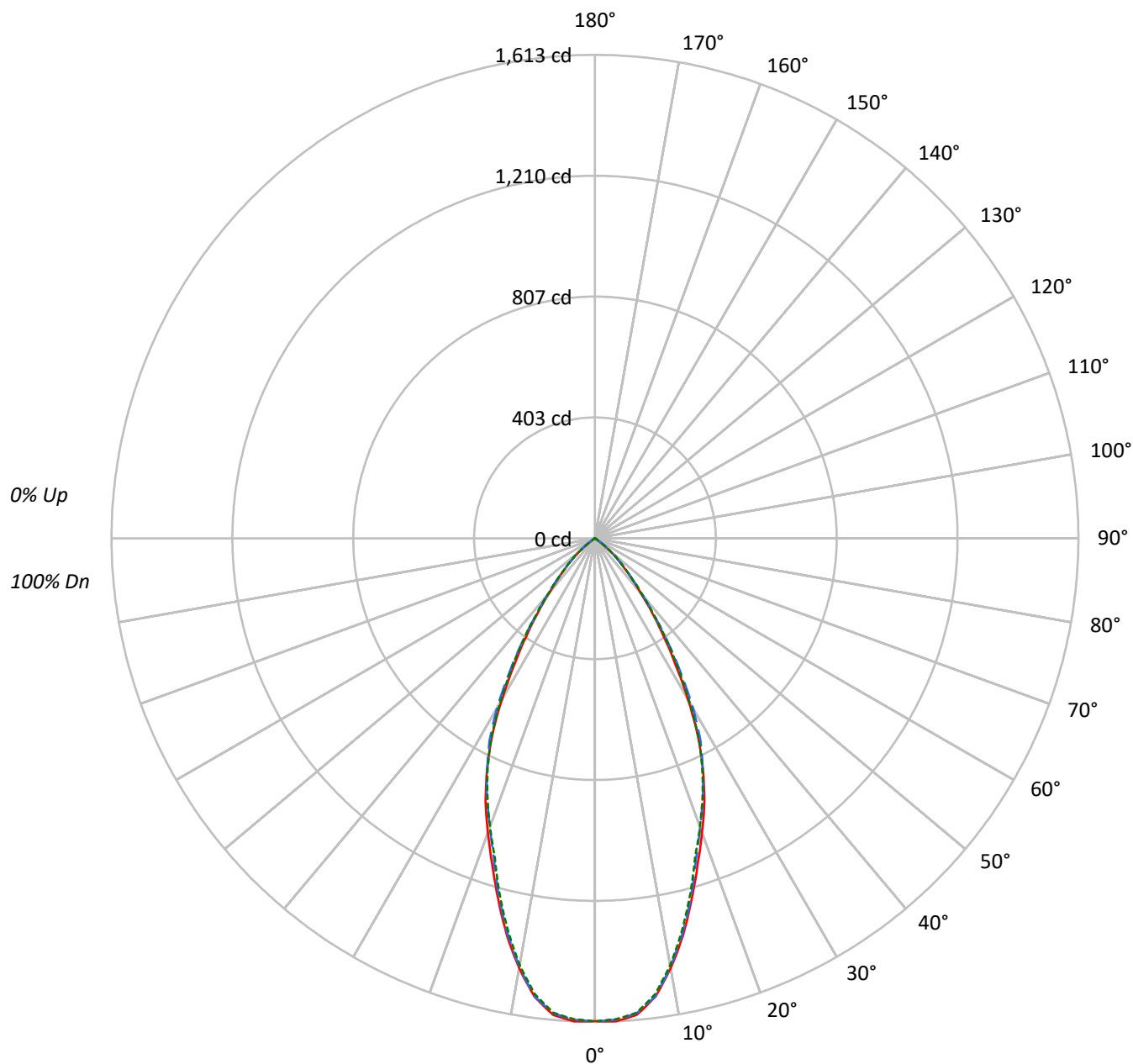
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	624208	624208	624208
5°	620877	618699	617999
10°	572991	570827	568625
15°	499979	496290	492601
20°	430424	422098	422098
25°	364435	363665	362084
30°	277620	292424	282540
35°	188956	200304	198555
40°	119180	125703	124793
45°	73623	74664	75650
50°	37723	42182	41037
55°	4997	14925	6213
60°	1394	1394	1394
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°	147.4	11.6
10°-20°	344.6	27.1
20°-30°	386.7	30.4
30°-40°	262.6	20.6
40°-50°	109.8	8.6
50°-60°	20.5	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°	878.6	69.1
0°-40°	1141.3	89.7
0°-60°	1271.6	100.0
0°-90°	1271.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1597	1595	1591	1588	1589	148
15°	1247	1243	1238	1227	1228	348
25°	853	860	851	849	847	386
35°	400	412	424	414	420	253
45°	134	133	136	138	138	107
55°	7	17	22	17	9	15
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°	1611.5	1611.5	1611.5	1611.5	1611.5
2.5°	1613.3	1609.6	1607.8	1606.0	1606.0
5°	1596.8	1594.9	1591.2	1587.5	1589.4
7.5°	1543.3	1541.5	1541.5	1534.1	1534.1
10°	1456.8	1456.8	1451.3	1451.3	1445.7
12.5°	1357.3	1350.0	1350.0	1344.4	1340.8
15°	1246.8	1243.1	1237.6	1226.6	1228.4
17.5°	1140.0	1132.6	1121.6	1116.1	1112.4
20°	1044.2	1042.4	1024.0	1020.3	1024.0
22.5°	954.0	955.8	941.1	937.4	937.4
25°	852.7	860.1	850.9	849.0	847.2
27.5°	744.0	756.9	762.5	749.6	747.7
30°	620.7	642.8	653.8	640.9	631.7
32.5°	500.9	523.0	534.1	524.9	519.4
35°	399.6	412.5	423.6	414.4	419.9
37.5°	313.1	320.5	324.1	324.1	324.1
40°	235.7	243.1	248.6	250.5	246.8
42.5°	178.6	182.3	186.0	187.9	186.0
45°	134.4	132.6	136.3	138.1	138.1
47.5°	97.6	97.6	99.5	101.3	101.3
50°	62.6	66.3	70.0	68.1	68.1
52.5°	27.6	38.7	46.0	38.7	31.3
55°	7.4	16.6	22.1	16.6	9.2
57.5°	1.8	5.5	7.4	5.5	3.7
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	0.0	0.0	0.0	1.8
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)