

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 EU2B20WFL559040 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 EU2B20WFL559040 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: 1298.5 lumens  
Efficiency: N/A  
Efficacy: 62.1 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

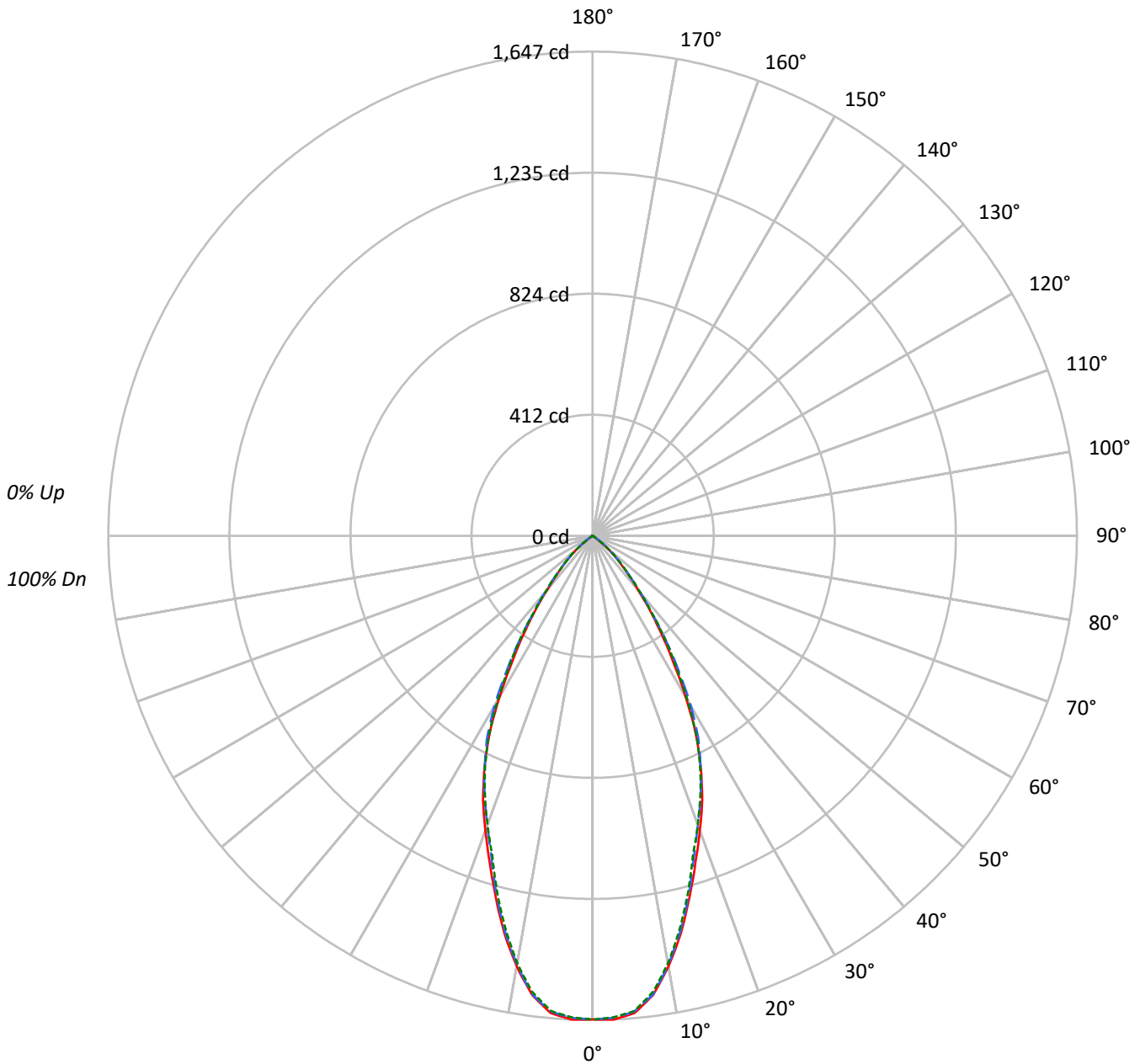
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	637262	637262	637262
5°	633825	631647	630908
10°	584987	582745	580542
15°	510446	506676	502907
20°	439452	430919	430919
25°	372042	371273	369649
30°	283389	298552	288444
35°	192928	204513	202716
40°	121709	128333	127372
45°	75212	76198	77238
50°	38506	43026	41941
55°	5065	15262	6348
60°	1472	1472	1472
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°	150.5	11.6
10°-20°	351.8	27.1
20°-30°	394.8	30.4
30°-40°	268.1	20.6
40°-50°	112.1	8.6
50°-60°	21.0	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°	897.0	69.1
0°-40°	1165.1	89.7
0°-60°	1298.2	100.0
0°-90°	1298.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1630	1628	1624	1621	1623	151
15°	1273	1269	1264	1252	1254	355
25°	870	878	869	867	865	394
35°	408	421	432	423	429	258
45°	137	135	139	141	141	109
55°	8	17	23	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°	1645.2	1645.2	1645.2	1645.2	1645.2
2.5°	1647.1	1643.3	1641.4	1639.6	1639.6
5°	1630.1	1628.3	1624.5	1620.7	1622.6
7.5°	1575.6	1573.7	1573.7	1566.2	1566.2
10°	1487.3	1487.3	1481.6	1481.6	1476.0
12.5°	1385.7	1378.2	1378.2	1372.6	1368.8
15°	1272.9	1269.1	1263.5	1252.2	1254.1
17.5°	1163.9	1156.3	1145.1	1139.4	1135.7
20°	1066.1	1064.2	1045.4	1041.6	1045.4
22.5°	974.0	975.8	960.8	957.0	957.0
25°	870.5	878.1	868.7	866.8	864.9
27.5°	759.6	772.8	778.4	765.2	763.4
30°	633.6	656.2	667.5	654.3	644.9
32.5°	511.4	534.0	545.3	535.9	530.2
35°	408.0	421.2	432.5	423.0	428.7
37.5°	319.6	327.2	330.9	330.9	330.9
40°	240.7	248.2	253.8	255.7	251.9
42.5°	182.4	186.1	189.9	191.8	189.9
45°	137.3	135.4	139.1	141.0	141.0
47.5°	99.7	99.7	101.5	103.4	103.4
50°	63.9	67.7	71.4	69.6	69.6
52.5°	28.2	39.5	47.0	39.5	32.0
55°	7.5	16.9	22.6	16.9	9.4
57.5°	1.9	5.6	7.5	5.6	3.8
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.0	0.0	0.0	1.9
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)