

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 EU2B20WFL559050 2LBDSQLC*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 (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WFL559050 2LBDSQLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1334.9 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

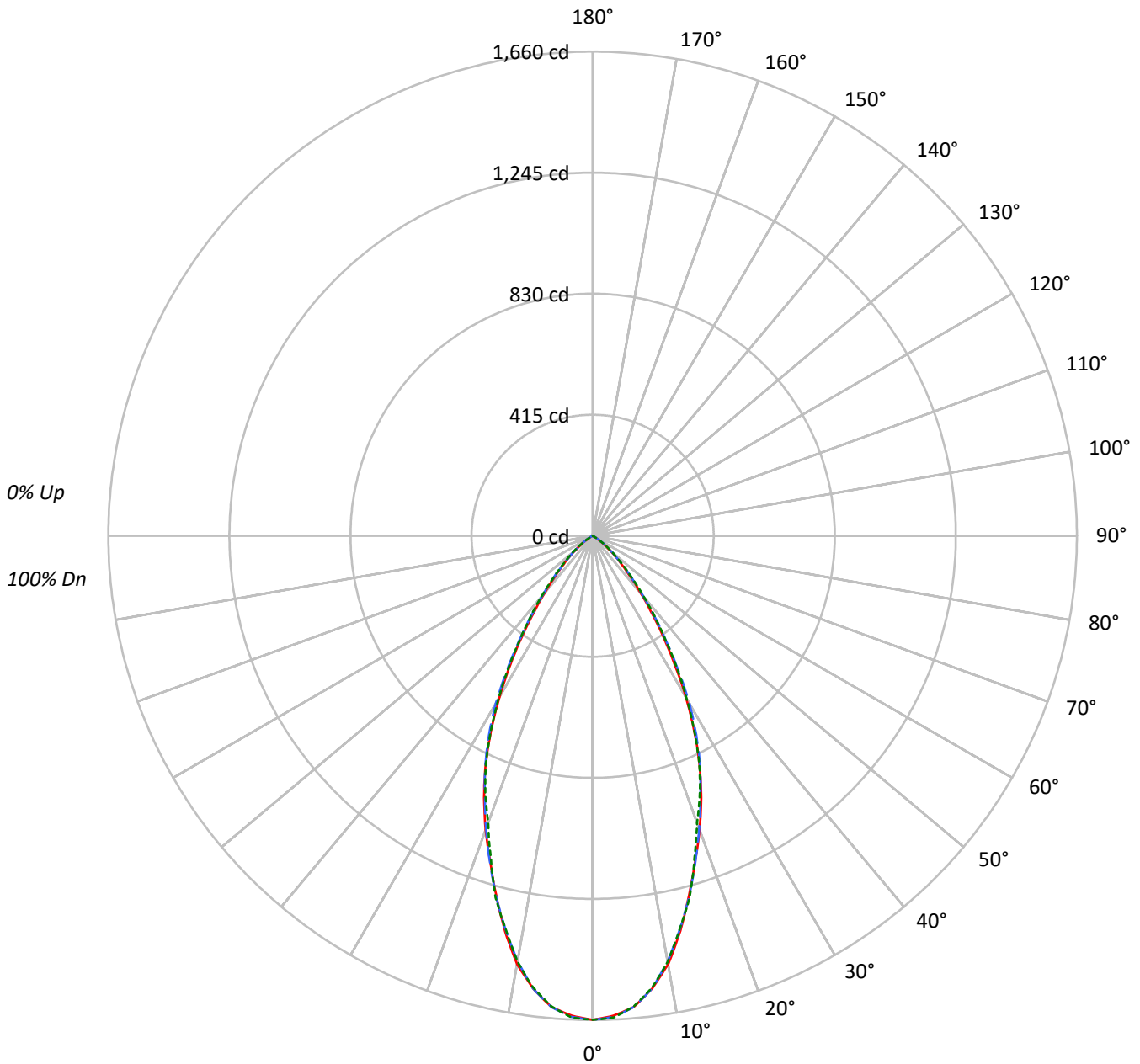
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	642839	642839	642839
5°	630558	630558	629742
10°	586482	582352	583178
15°	511809	512651	515178
20°	441884	440152	431455
25°	370845	372640	369948
30°	285447	296718	288265
35°	199170	207161	205175
40°	129900	135260	139507
45°	79594	84195	87701
50°	46943	50739	53330
55°	19922	25595	24176
60°	3254	6507	4881
65°	1925	1925	1925
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°	150.3	11.3
10°-20°	355.7	26.6
20°-30°	394.0	29.5
30°-40°	274.2	20.5
40°-50°	123.4	9.2
50°-60°	34.8	2.6
60°-70°	2.4	0.2
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°	900.0	67.4
0°-40°	1174.2	88.0
0°-60°	1332.5	99.8
0°-90°	1334.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1622	1628	1622	1615	1620	150
15°	1276	1283	1278	1276	1285	356
25°	868	874	872	861	866	393
35°	421	434	438	438	434	266
45°	145	150	154	158	160	117
55°	30	34	38	38	36	30
65°	2	2	2	2	2	2
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°	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1647.0	1655.4	1651.2	1651.2	1653.3
5°	1621.7	1628.0	1621.7	1615.4	1619.6
7.5°	1564.8	1571.2	1564.8	1560.6	1562.7
10°	1491.1	1486.9	1480.6	1476.4	1482.7
12.5°	1387.9	1385.8	1381.6	1379.5	1379.5
15°	1276.3	1282.6	1278.4	1276.3	1284.7
17.5°	1168.9	1175.2	1171.0	1164.7	1160.5
20°	1072.0	1074.1	1067.8	1057.3	1046.7
22.5°	973.0	975.1	964.6	960.4	960.4
25°	867.7	874.0	871.9	861.4	865.6
27.5°	754.0	764.5	768.7	756.1	756.1
30°	638.2	646.6	663.4	646.6	644.5
32.5°	524.4	537.1	545.5	543.4	537.1
35°	421.2	433.9	438.1	438.1	433.9
37.5°	328.6	341.2	345.4	349.6	349.6
40°	256.9	263.3	267.5	273.8	275.9
42.5°	193.8	200.1	206.4	210.6	208.5
45°	145.3	149.5	153.7	158.0	160.1
47.5°	109.5	109.5	113.7	117.9	117.9
50°	77.9	82.1	84.2	86.4	88.5
52.5°	52.7	54.8	59.0	61.1	59.0
55°	29.5	33.7	37.9	37.9	35.8
57.5°	12.6	19.0	21.1	21.1	16.8
60°	4.2	8.4	8.4	10.5	6.3
62.5°	2.1	4.2	4.2	4.2	2.1
65°	2.1	2.1	2.1	2.1	2.1
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)