

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 EU2B20WFL559030 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 EU2B20WFL559030 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: 1225.8 lumens
Efficiency: N/A
Efficacy: 58.7 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

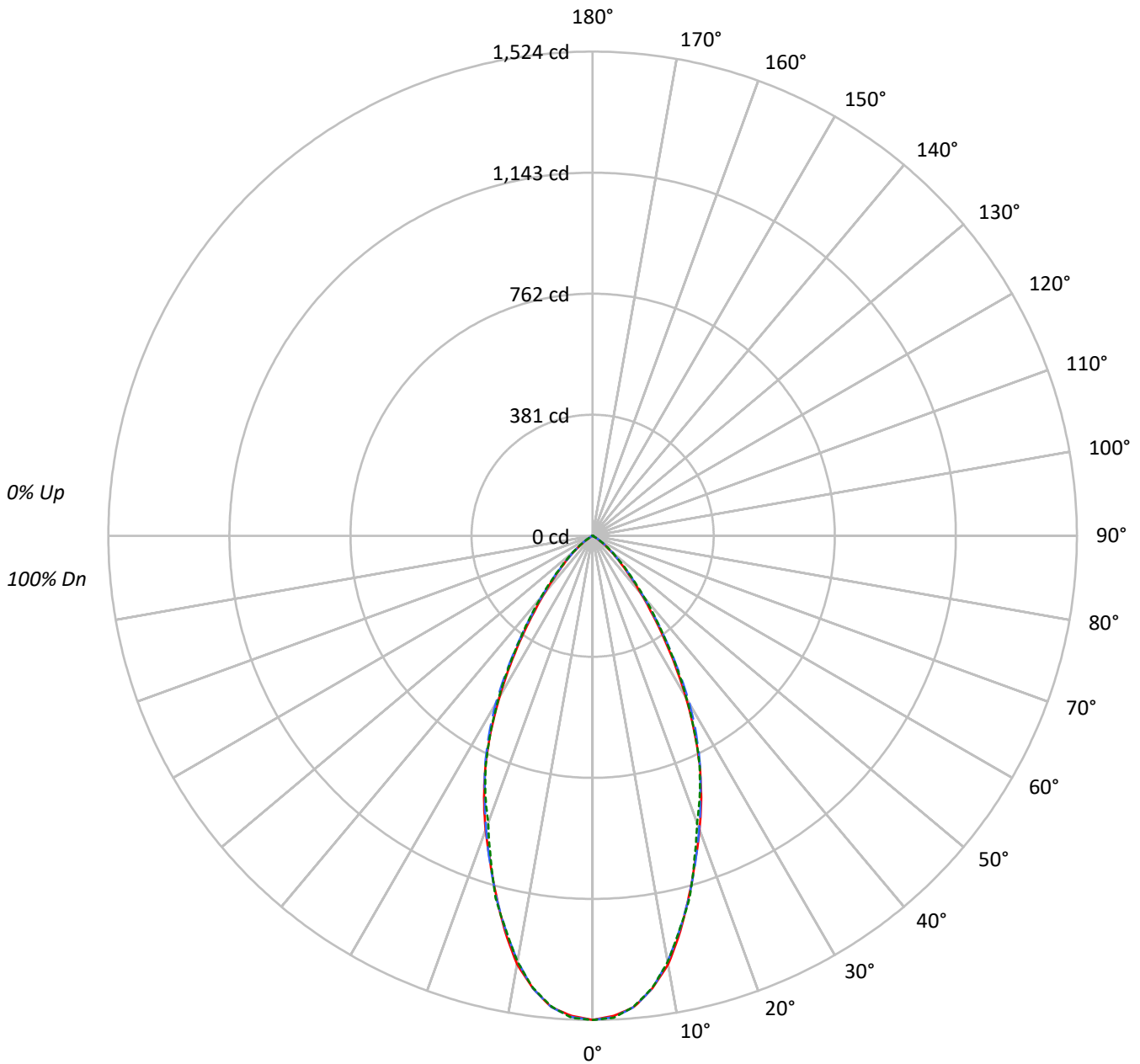
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	590315	590315	590315
5°	579039	579039	578261
10°	538575	534760	535507
15°	469984	470746	473072
20°	405775	404167	396211
25°	340544	342210	339732
30°	262099	272476	264694
35°	182903	190232	188388
40°	119281	124186	128130
45°	73075	77348	80525
50°	43146	46642	48931
55°	18301	23501	22218
60°	3021	5965	4493
65°	1741	1741	1741
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°	138.1	11.3
10°-20°	326.6	26.6
20°-30°	361.8	29.5
30°-40°	251.8	20.5
40°-50°	113.4	9.2
50°-60°	32.0	2.6
60°-70°	2.2	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°	826.5	67.4
0°-40°	1078.3	88.0
0°-60°	1223.6	99.8
0°-90°	1225.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1489	1495	1489	1483	1487	138
15°	1172	1178	1174	1172	1180	327
25°	797	803	801	791	795	361
35°	387	398	402	402	398	244
45°	133	137	141	145	147	108
55°	27	31	35	35	33	27
65°	2	2	2	2	2	1
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°	1524.0	1524.0	1524.0	1524.0	1524.0
2.5°	1512.4	1520.1	1516.2	1516.2	1518.2
5°	1489.2	1495.0	1489.2	1483.4	1487.2
7.5°	1436.9	1442.7	1436.9	1433.1	1435.0
10°	1369.3	1365.4	1359.6	1355.7	1361.5
12.5°	1274.5	1272.6	1268.7	1266.8	1266.8
15°	1172.0	1177.8	1173.9	1172.0	1179.7
17.5°	1073.4	1079.2	1075.3	1069.5	1065.6
20°	984.4	986.3	980.5	970.9	961.2
22.5°	893.5	895.4	885.8	881.9	881.9
25°	796.8	802.6	800.7	791.0	794.9
27.5°	692.4	702.0	705.9	694.3	694.3
30°	586.0	593.7	609.2	593.7	591.8
32.5°	481.6	493.2	500.9	499.0	493.2
35°	386.8	398.4	402.3	402.3	398.4
37.5°	301.7	313.3	317.2	321.0	321.0
40°	235.9	241.7	245.6	251.4	253.4
42.5°	177.9	183.7	189.5	193.4	191.5
45°	133.4	137.3	141.2	145.0	147.0
47.5°	100.6	100.6	104.4	108.3	108.3
50°	71.6	75.4	77.4	79.3	81.2
52.5°	48.3	50.3	54.2	56.1	54.2
55°	27.1	30.9	34.8	34.8	32.9
57.5°	11.6	17.4	19.3	19.3	15.5
60°	3.9	7.7	7.7	9.7	5.8
62.5°	1.9	3.9	3.9	3.9	1.9
65°	1.9	1.9	1.9	1.9	1.9
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)