

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 EU2B20WFL559727 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 EU2B20WFL559727 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: 1056.3 lumens
Efficiency: N/A
Efficacy: 50.5 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

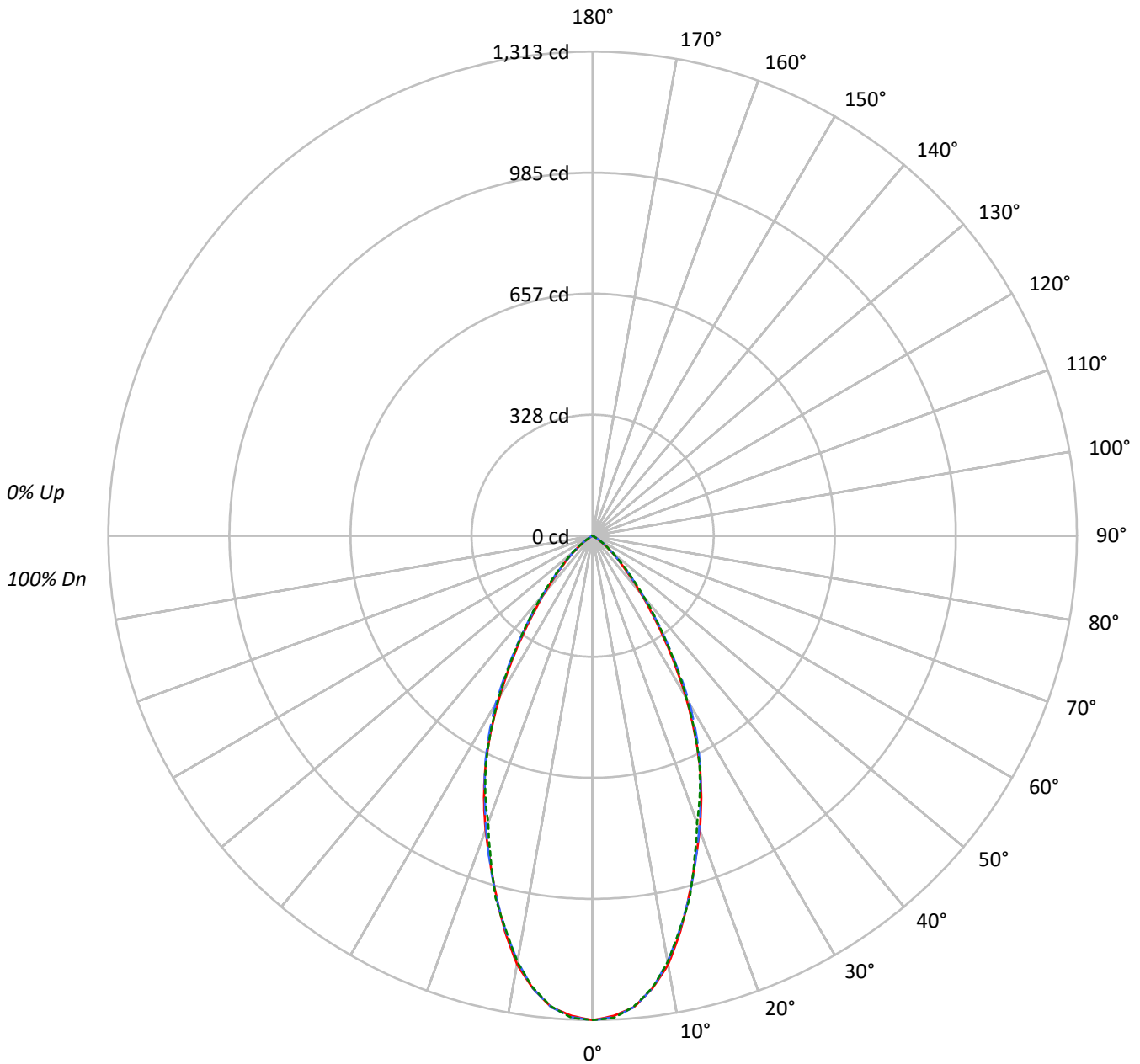
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	508663	508663	508663
5°	498941	498941	498319
10°	464080	460815	461484
15°	404980	405662	407667
20°	349673	348272	341429
25°	293445	294898	292761
30°	225871	234816	228107
35°	157605	163894	162334
40°	102797	107045	110382
45°	62996	66666	69405
50°	37181	40194	42182
55°	15735	20260	19111
60°	2556	5190	3873
65°	1558	1558	1558
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°	119.0	11.3
10°-20°	281.4	26.6
20°-30°	311.8	29.5
30°-40°	217.0	20.5
40°-50°	97.7	9.2
50°-60°	27.6	2.6
60°-70°	1.9	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°	712.2	67.4
0°-40°	929.1	88.0
0°-60°	1054.4	99.8
0°-90°	1056.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1283	1288	1283	1278	1282	119
15°	1010	1015	1012	1010	1017	282
25°	687	692	690	682	685	311
35°	333	343	347	347	343	210
45°	115	118	122	125	127	93
55°	23	27	30	30	28	24
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°	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1303.2	1309.9	1306.6	1306.6	1308.2
5°	1283.2	1288.2	1283.2	1278.2	1281.6
7.5°	1238.3	1243.3	1238.3	1234.9	1236.6
10°	1179.9	1176.6	1171.6	1168.3	1173.3
12.5°	1098.3	1096.6	1093.3	1091.6	1091.6
15°	1009.9	1014.9	1011.6	1009.9	1016.6
17.5°	924.9	929.9	926.6	921.6	918.3
20°	848.3	849.9	844.9	836.6	828.3
22.5°	769.9	771.6	763.3	759.9	759.9
25°	686.6	691.6	690.0	681.6	685.0
27.5°	596.6	605.0	608.3	598.3	598.3
30°	505.0	511.6	525.0	511.6	510.0
32.5°	415.0	425.0	431.6	430.0	425.0
35°	333.3	343.3	346.6	346.6	343.3
37.5°	260.0	270.0	273.3	276.6	276.6
40°	203.3	208.3	211.7	216.7	218.3
42.5°	153.3	158.3	163.3	166.7	165.0
45°	115.0	118.3	121.7	125.0	126.7
47.5°	86.7	86.7	90.0	93.3	93.3
50°	61.7	65.0	66.7	68.3	70.0
52.5°	41.7	43.3	46.7	48.3	46.7
55°	23.3	26.7	30.0	30.0	28.3
57.5°	10.0	15.0	16.7	16.7	13.3
60°	3.3	6.7	6.7	8.3	5.0
62.5°	1.7	3.3	3.3	3.3	1.7
65°	1.7	1.7	1.7	1.7	1.7
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)