

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: **LD2B10D010 EU2B10WFL558035 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: LD2B10D010 EU2B10WFL558035 2LBDSQLC*MB
Description: 1000 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: 845.9 lumens
Efficiency: N/A
Efficacy: 82.1 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

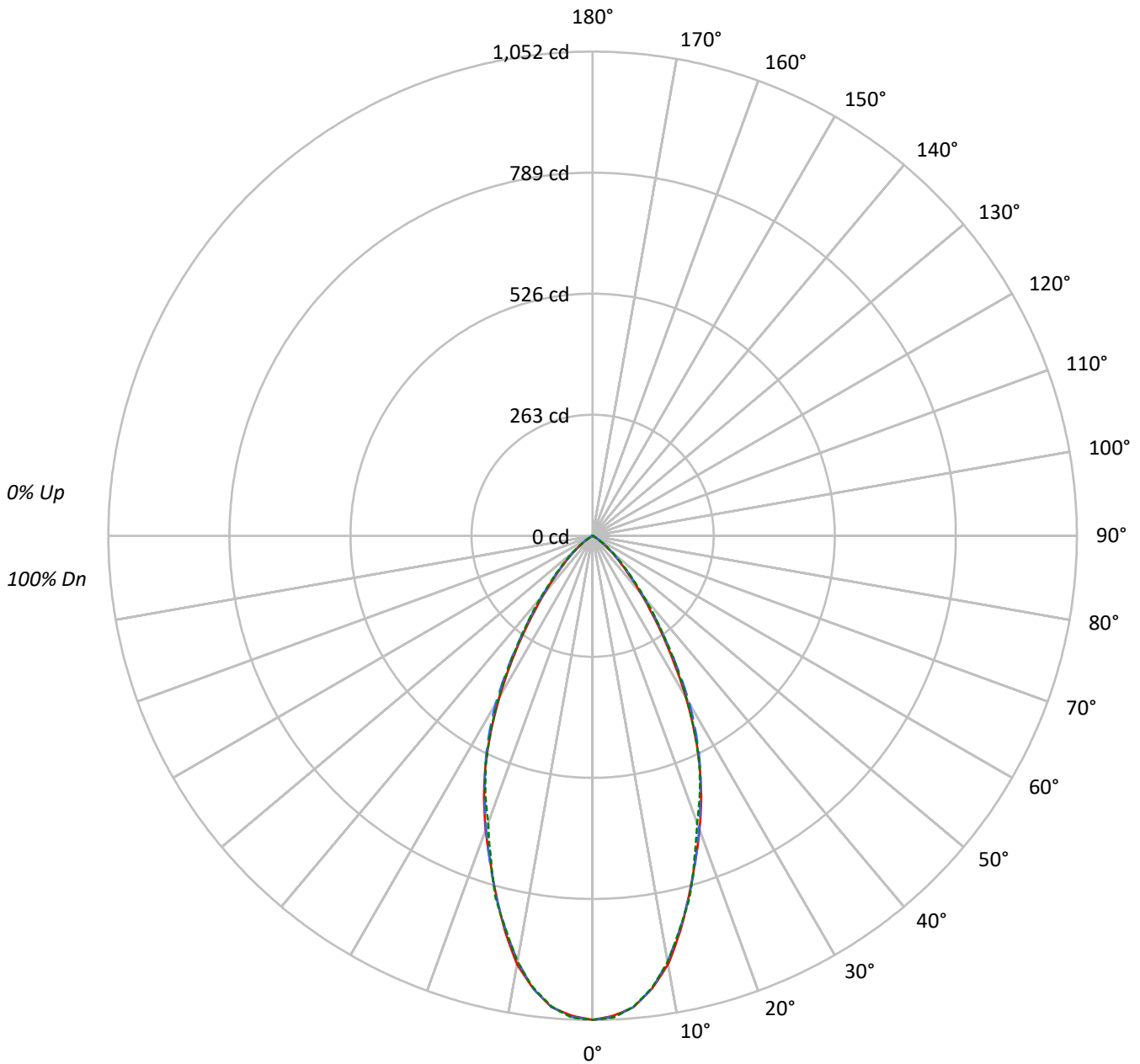
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	407372	407372	407372
5°	399557	399557	399052
10°	371649	369014	369565
15°	324337	324858	326462
20°	280011	278898	273416
25°	235021	236132	234423
30°	180875	188032	182665
35°	126207	131267	129990
40°	82319	85707	88387
45°	50451	53355	55546
50°	29769	32179	33806
55°	12628	16208	15330
60°	2092	4106	3099
65°	1192	1192	1192
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°	95.3	11.3
10°-20°	225.4	26.6
20°-30°	249.7	29.5
30°-40°	173.7	20.5
40°-50°	78.2	9.2
50°-60°	22.1	2.6
60°-70°	1.5	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°	570.3	67.4
0°-40°	744.1	88.0
0°-60°	844.4	99.8
0°-90°	845.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1028	1032	1028	1024	1026	95
15°	809	813	810	809	814	226
25°	550	554	552	546	548	249
35°	267	275	278	278	275	168
45°	92	95	97	100	101	74
55°	19	21	24	24	23	19
65°	1	1	1	1	1	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°	1051.7	1051.7	1051.7	1051.7	1051.7
2.5°	1043.7	1049.0	1046.3	1046.3	1047.7
5°	1027.6	1031.6	1027.6	1023.6	1026.3
7.5°	991.6	995.6	991.6	988.9	990.3
10°	944.9	942.2	938.2	935.6	939.6
12.5°	879.5	878.2	875.5	874.2	874.2
15°	808.8	812.8	810.1	808.8	814.1
17.5°	740.7	744.7	742.0	738.0	735.4
20°	679.3	680.6	676.6	670.0	663.3
22.5°	616.6	617.9	611.2	608.6	608.6
25°	549.9	553.9	552.5	545.9	548.5
27.5°	477.8	484.5	487.1	479.1	479.1
30°	404.4	409.7	420.4	409.7	408.4
32.5°	332.3	340.3	345.7	344.3	340.3
35°	266.9	274.9	277.6	277.6	274.9
37.5°	208.2	216.2	218.9	221.5	221.5
40°	162.8	166.8	169.5	173.5	174.8
42.5°	122.8	126.8	130.8	133.5	132.1
45°	92.1	94.8	97.4	100.1	101.4
47.5°	69.4	69.4	72.1	74.7	74.7
50°	49.4	52.0	53.4	54.7	56.1
52.5°	33.4	34.7	37.4	38.7	37.4
55°	18.7	21.4	24.0	24.0	22.7
57.5°	8.0	12.0	13.3	13.3	10.7
60°	2.7	5.3	5.3	6.7	4.0
62.5°	1.3	2.7	2.7	2.7	1.3
65°	1.3	1.3	1.3	1.3	1.3
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)