

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: P225260

Luminaire Tested: **LD2B15D010 EU2B15FL409024 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15FL409024 2LBDSQLC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 862.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

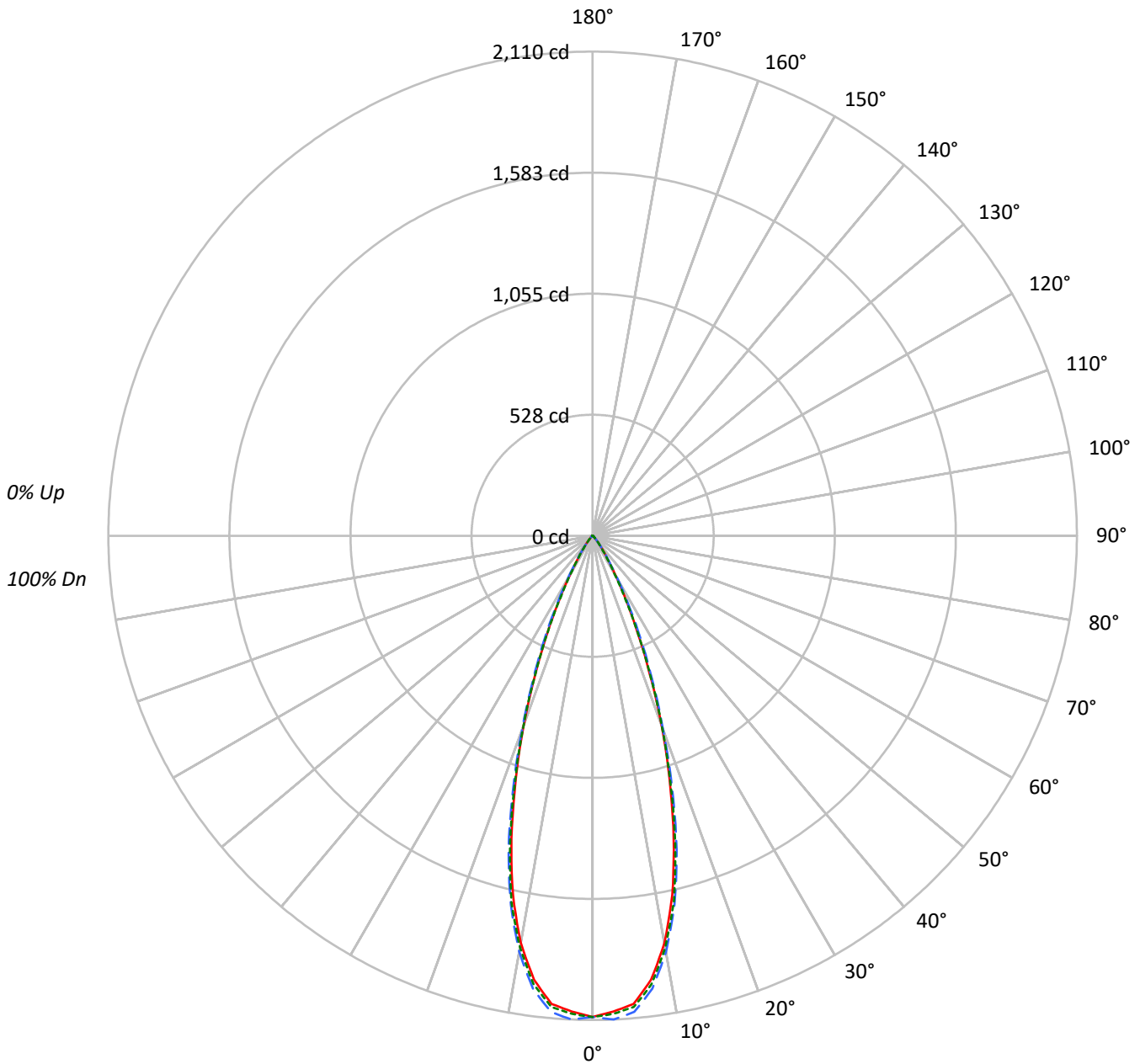
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																																				
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																																				
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																																				
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																																				
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																																				
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																																				
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																																				
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																																				
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																																				
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	812342	812342	812342
5°	796276	809963	801292
10°	708608	723829	716435
15°	547499	567229	557364
20°	361174	368882	363111
25°	197026	210532	198009
30°	88649	98086	84981
35°	38255	39389	34945
40°	16029	16585	14815
45°	6409	7066	7066
50°	2832	3555	3555
55°	1553	1553	2364
60°	930	930	930
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°	189.6	22.0
10°-20°	377.3	43.8
20°-30°	222.9	25.9
30°-40°	58.0	6.7
40°-50°	11.5	1.3
50°-60°	2.5	0.3
60°-70°	0.2	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°	789.8	91.6
0°-40°	847.8	98.4
0°-60°	861.8	100.0
0°-90°	862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2048	2064	2083	2069	2061	187
15°	1365	1396	1414	1393	1390	370
25°	461	476	493	474	463	217
35°	81	84	83	82	74	57
45°	12	14	13	13	13	11
55°	2	2	2	2	4	2
65°	0	0	0	0	0	0
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°	2097.2	2097.2	2097.2	2097.2	2097.2
2.5°	2074.9	2096.0	2110.1	2098.3	2085.4
5°	2047.9	2064.3	2083.1	2069.0	2060.8
7.5°	1951.7	1976.3	1990.4	1983.4	1970.5
10°	1801.6	1820.4	1840.3	1833.3	1821.5
12.5°	1603.4	1629.2	1647.9	1631.5	1633.9
15°	1365.3	1395.8	1414.5	1393.4	1389.9
17.5°	1113.1	1136.5	1149.4	1136.5	1127.2
20°	876.2	890.2	894.9	889.1	880.9
22.5°	647.4	662.7	676.8	662.7	652.1
25°	461.0	476.2	492.6	473.9	463.3
27.5°	310.8	320.2	334.3	316.7	301.4
30°	198.2	208.8	219.3	206.4	190.0
32.5°	125.5	132.5	133.7	131.4	117.3
35°	80.9	84.4	83.3	82.1	73.9
37.5°	51.6	51.6	52.8	51.6	46.9
40°	31.7	34.0	32.8	31.7	29.3
42.5°	18.8	21.1	19.9	19.9	18.8
45°	11.7	14.1	12.9	12.9	12.9
47.5°	8.2	9.4	8.2	8.2	9.4
50°	4.7	5.9	5.9	5.9	5.9
52.5°	3.5	3.5	3.5	3.5	4.7
55°	2.3	2.3	2.3	2.3	3.5
57.5°	2.3	2.3	1.2	1.2	2.3
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	0.0	0.0	0.0	1.2
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)