

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: P225257

Luminaire Tested: **LD2B15D010 EU2B15FL408035 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225257
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 EU2B15FL408035 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: 1215.8 lumens
Efficiency: N/A
Efficacy: 85.0 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

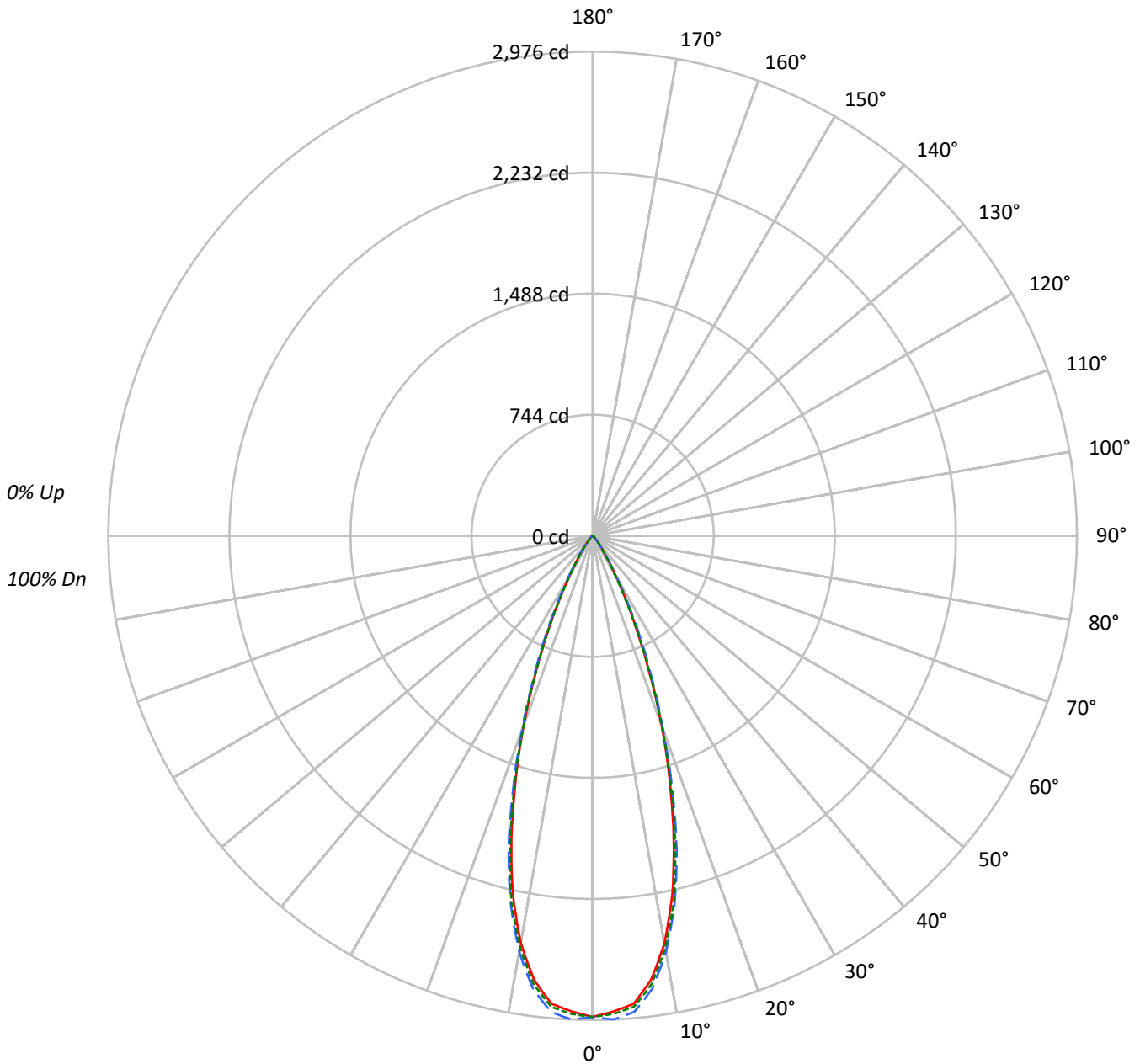
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	75	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°	1145731	1145731	1145731
5°	1123084	1142408	1130160
10°	999430	1020905	1010521
15°	772185	800055	786140
20°	509403	520285	512123
25°	277846	296950	279299
30°	125056	138385	119868
35°	53954	55561	49272
40°	22602	23411	20934
45°	9039	9970	9970
50°	3977	5002	5002
55°	2229	2229	3377
60°	1317	1317	1317
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°	267.4	22.0
10°-20°	532.2	43.8
20°-30°	314.4	25.9
30°-40°	81.8	6.7
40°-50°	16.2	1.3
50°-60°	3.6	0.3
60°-70°	0.3	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°	1113.9	91.6
0°-40°	1195.8	98.4
0°-60°	1215.5	100.0
0°-90°	1215.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1215.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2888	2912	2938	2918	2907	264
15°	1926	1969	1995	1965	1960	523
25°	650	672	695	668	654	306
35°	114	119	118	116	104	80
45°	16	20	18	18	18	15
55°	3	3	3	3	5	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2957.9	2957.9	2957.9	2957.9	2957.9
2.5°	2926.5	2956.3	2976.1	2959.6	2941.4
5°	2888.4	2911.6	2938.1	2918.2	2906.6
7.5°	2752.8	2787.5	2807.4	2797.4	2779.3
10°	2541.0	2567.5	2595.6	2585.7	2569.2
12.5°	2261.5	2297.8	2324.3	2301.2	2304.5
15°	1925.6	1968.6	1995.1	1965.3	1960.4
17.5°	1569.9	1603.0	1621.2	1603.0	1589.8
20°	1235.8	1255.6	1262.2	1254.0	1242.4
22.5°	913.2	934.7	954.5	934.7	919.8
25°	650.1	671.7	694.8	668.3	653.5
27.5°	438.4	451.6	471.5	446.7	425.2
30°	279.6	294.5	309.4	291.2	268.0
32.5°	177.0	186.9	188.6	185.3	165.4
35°	114.1	119.1	117.5	115.8	104.2
37.5°	72.8	72.8	74.4	72.8	66.2
40°	44.7	48.0	46.3	44.7	41.4
42.5°	26.5	29.8	28.1	28.1	26.5
45°	16.5	19.9	18.2	18.2	18.2
47.5°	11.6	13.2	11.6	11.6	13.2
50°	6.6	8.3	8.3	8.3	8.3
52.5°	5.0	5.0	5.0	5.0	6.6
55°	3.3	3.3	3.3	3.3	5.0
57.5°	3.3	3.3	1.7	1.7	3.3
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.0	0.0	0.0	1.7
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)