

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: P225189

Luminaire Tested: **LD2B15D010 EU2B15FL409030D2W 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225189
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 EU2B15FL409030D2W 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 778.7 lumens
Efficiency: N/A
Efficacy: 54.5 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

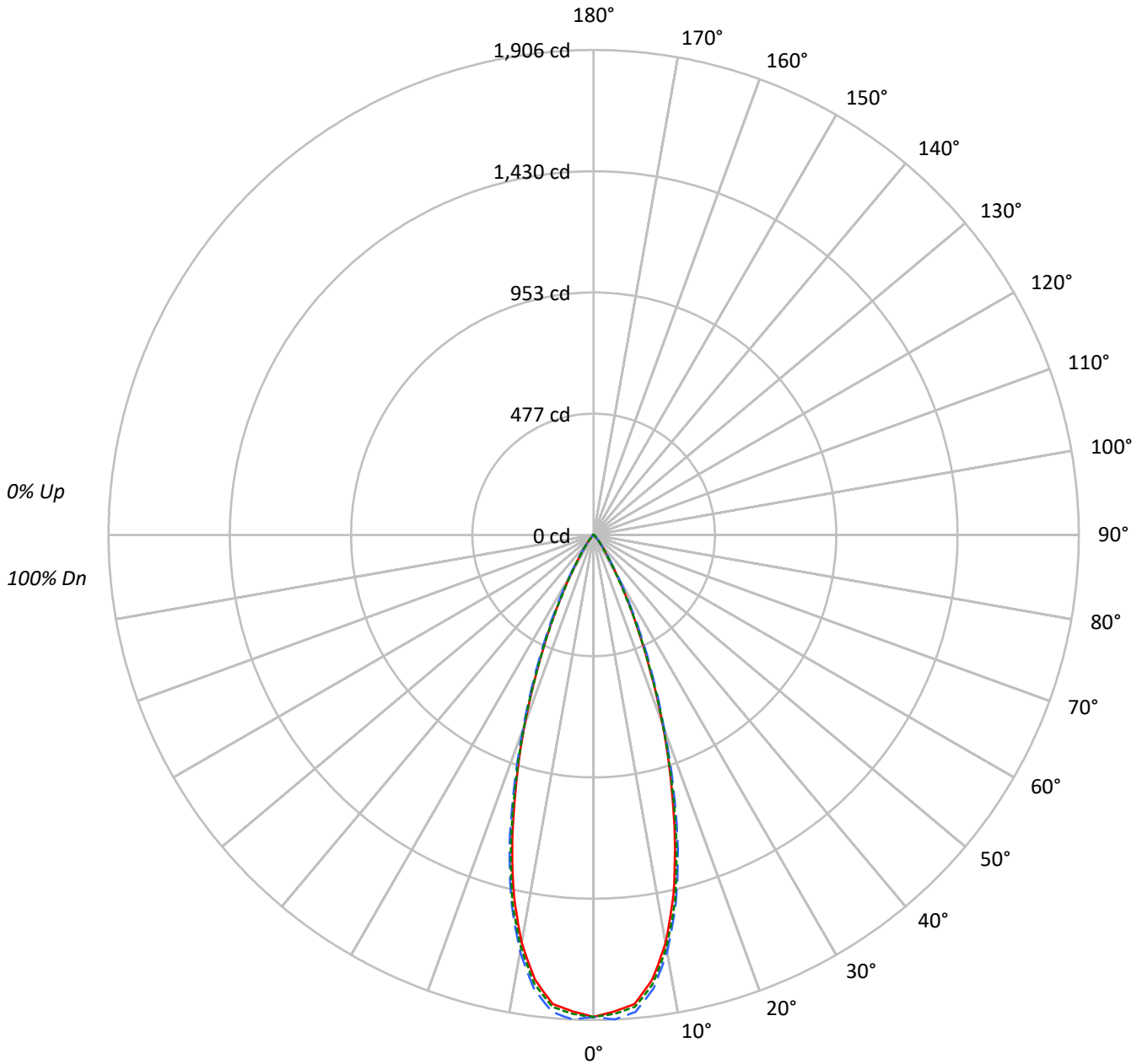
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	733827	733827	733827
5°	719327	731692	723877
10°	640131	653897	647210
15°	494566	512451	503508
20°	326260	333227	327992
25°	177965	190188	178862
30°	80106	88649	76796
35°	34566	35607	31540
40°	14461	15018	13400
45°	5807	6409	6409
50°	2531	3194	3194
55°	1418	1418	2161
60°	775	775	775
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°	171.2	22.0
10°-20°	340.9	43.8
20°-30°	201.3	25.9
30°-40°	52.4	6.7
40°-50°	10.4	1.3
50°-60°	2.3	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°	713.5	91.6
0°-40°	765.9	98.4
0°-60°	778.5	100.0
0°-90°	778.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1850	1865	1882	1869	1862	169
15°	1233	1261	1278	1259	1256	335
25°	416	430	445	428	418	196
35°	73	76	75	74	67	51
45°	11	13	12	12	12	10
55°	2	2	2	2	3	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°	1894.5	1894.5	1894.5	1894.5	1894.5
2.5°	1874.4	1893.4	1906.1	1895.5	1883.9
5°	1850.0	1864.8	1881.8	1869.1	1861.7
7.5°	1763.1	1785.4	1798.1	1791.7	1780.0
10°	1627.5	1644.4	1662.5	1656.1	1645.5
12.5°	1448.4	1471.7	1488.7	1473.9	1475.9
15°	1233.3	1260.9	1277.9	1258.8	1255.6
17.5°	1005.5	1026.7	1038.3	1026.7	1018.2
20°	791.5	804.2	808.4	803.1	795.7
22.5°	584.9	598.7	611.4	598.7	589.1
25°	416.4	430.2	445.0	428.0	418.5
27.5°	280.8	289.2	302.0	286.1	272.3
30°	179.1	188.6	198.2	186.5	171.7
32.5°	113.4	119.7	120.8	118.7	106.0
35°	73.1	76.3	75.3	74.1	66.7
37.5°	46.6	46.6	47.7	46.6	42.4
40°	28.6	30.7	29.7	28.6	26.5
42.5°	16.9	19.1	18.0	18.0	16.9
45°	10.6	12.7	11.7	11.7	11.7
47.5°	7.4	8.5	7.4	7.4	8.5
50°	4.2	5.3	5.3	5.3	5.3
52.5°	3.2	3.2	3.2	3.2	4.2
55°	2.1	2.1	2.1	2.1	3.2
57.5°	2.1	2.1	1.0	1.0	2.1
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)