

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: P225214

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225214
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 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: 1319.9 lumens
Efficiency: N/A
Efficacy: 92.3 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

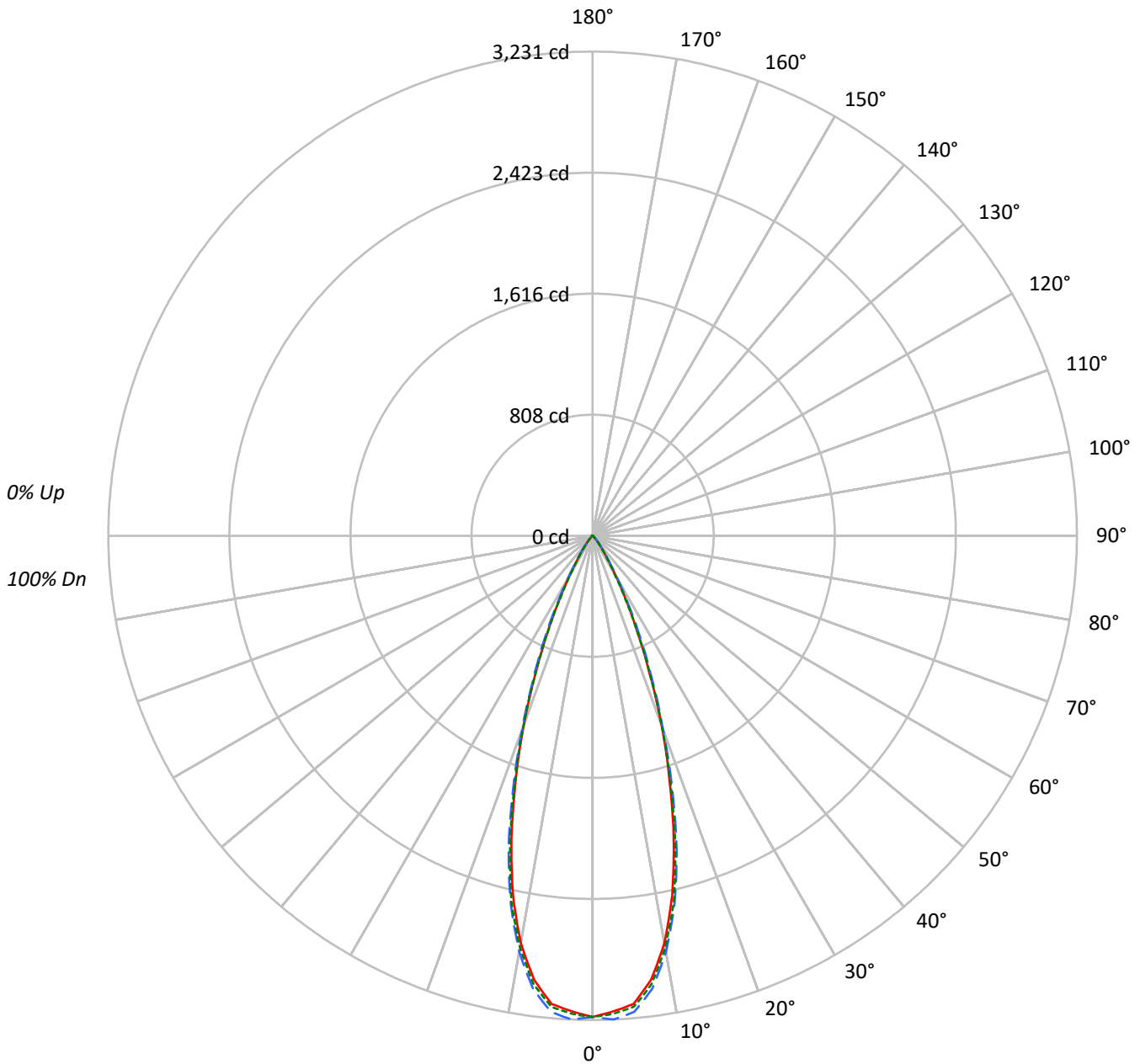
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	1243845	1243845	1243845
5°	1219279	1240198	1226939
10°	1085016	1108340	1097013
15°	838312	868548	853430
20°	553014	564844	555982
25°	301651	322380	303190
30°	135746	150193	130110
35°	58588	60290	53481
40°	24524	25434	22703
45°	9860	10846	10846
50°	4339	5423	5423
55°	2431	2431	3647
60°	1394	1394	1394
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°	290.2	22.0
10°-20°	577.8	43.8
20°-30°	341.3	25.9
30°-40°	88.8	6.7
40°-50°	17.6	1.3
50°-60°	3.9	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°	1209.3	91.6
0°-40°	1298.1	98.4
0°-60°	1319.6	100.0
0°-90°	1319.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3136	3161	3190	3168	3156	287
15°	2090	2137	2166	2134	2128	567
25°	706	729	754	726	709	333
35°	124	129	128	126	113	87
45°	18	22	20	20	20	16
55°	4	4	4	4	5	4
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3211.2	3211.2	3211.2	3211.2	3211.2
2.5°	3177.1	3209.4	3230.9	3213.0	3193.2
5°	3135.8	3160.9	3189.6	3168.1	3155.5
7.5°	2988.5	3026.2	3047.7	3037.0	3017.2
10°	2758.6	2787.3	2817.9	2807.1	2789.1
12.5°	2455.1	2494.6	2523.3	2498.2	2501.8
15°	2090.5	2137.2	2165.9	2133.6	2128.2
17.5°	1704.4	1740.3	1760.0	1740.3	1725.9
20°	1341.6	1363.1	1370.3	1361.3	1348.8
22.5°	991.4	1014.7	1036.3	1014.7	998.6
25°	705.8	729.2	754.3	725.6	709.4
27.5°	475.9	490.3	511.8	484.9	461.6
30°	303.5	319.7	335.8	316.1	290.9
32.5°	192.2	202.9	204.7	201.1	179.6
35°	123.9	129.3	127.5	125.7	113.1
37.5°	79.0	79.0	80.8	79.0	71.8
40°	48.5	52.1	50.3	48.5	44.9
42.5°	28.7	32.3	30.5	30.5	28.7
45°	18.0	21.6	19.8	19.8	19.8
47.5°	12.6	14.4	12.6	12.6	14.4
50°	7.2	9.0	9.0	9.0	9.0
52.5°	5.4	5.4	5.4	5.4	7.2
55°	3.6	3.6	3.6	3.6	5.4
57.5°	3.6	3.6	1.8	1.8	3.6
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	0.0	0.0	0.0	1.8
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)