

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: P225229

Luminaire Tested: **LD2B15D010 EU2B15FL409035 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225229
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 EU2B15FL409035 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: 1007.5 lumens
Efficiency: N/A
Efficacy: 70.5 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

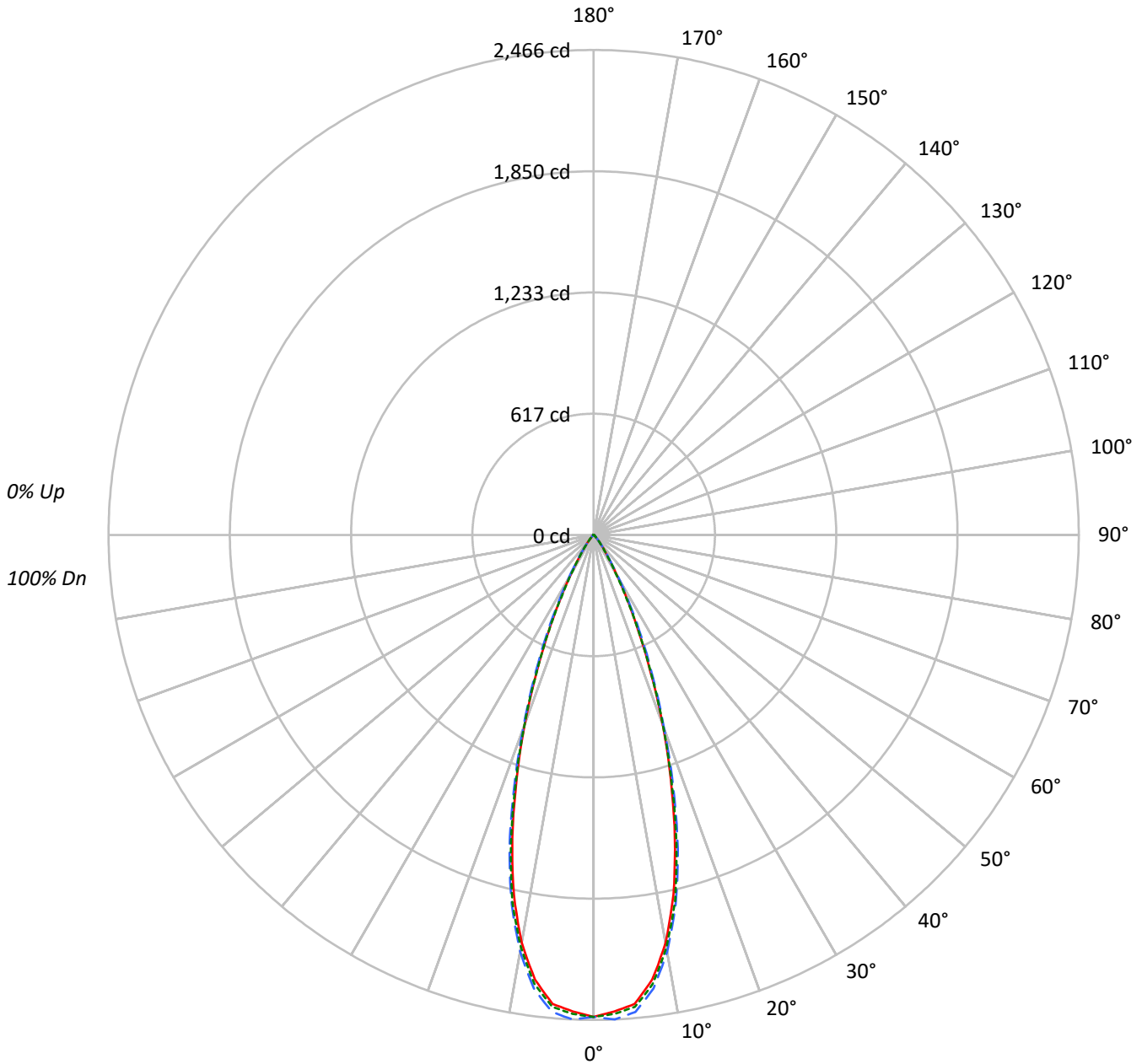
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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°	949424	949424	949424
5°	930693	946674	936525
10°	828217	845995	837381
15°	639892	662990	651441
20°	422139	431166	424365
25°	230277	246091	231431
30°	103632	114680	99338
35°	44733	46009	40855
40°	18709	19417	17344
45°	7505	8272	8272
50°	3314	4158	4158
55°	1823	1823	2769
60°	1085	1085	1085
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°	221.5	22.0
10°-20°	441.0	43.8
20°-30°	260.5	25.9
30°-40°	67.8	6.7
40°-50°	13.4	1.3
50°-60°	2.9	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°	923.1	91.6
0°-40°	990.9	98.4
0°-60°	1007.3	100.0
0°-90°	1007.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1007.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2451	2451	2451	2451	2451	
5°	2394	2413	2435	2418	2409	219
15°	1596	1631	1653	1629	1624	433
25°	539	557	576	554	542	254
35°	95	99	97	96	86	66
45°	14	16	15	15	15	13
55°	3	3	3	3	4	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°	2451.1	2451.1	2451.1	2451.1	2451.1
2.5°	2425.1	2449.8	2466.2	2452.5	2437.4
5°	2393.6	2412.8	2434.7	2418.2	2408.6
7.5°	2281.2	2309.9	2326.4	2318.2	2303.1
10°	2105.7	2127.6	2150.9	2142.7	2129.0
12.5°	1874.0	1904.2	1926.1	1906.9	1909.6
15°	1595.7	1631.4	1653.3	1628.6	1624.5
17.5°	1301.0	1328.4	1343.5	1328.4	1317.4
20°	1024.1	1040.5	1046.0	1039.1	1029.5
22.5°	756.7	774.6	791.0	774.6	762.2
25°	538.8	556.6	575.8	553.8	541.5
27.5°	363.3	374.3	390.7	370.1	352.3
30°	231.7	244.0	256.4	241.3	222.1
32.5°	146.7	154.9	156.3	153.5	137.1
35°	94.6	98.7	97.3	96.0	86.4
37.5°	60.3	60.3	61.7	60.3	54.8
40°	37.0	39.8	38.4	37.0	34.3
42.5°	21.9	24.7	23.3	23.3	21.9
45°	13.7	16.5	15.1	15.1	15.1
47.5°	9.6	11.0	9.6	9.6	11.0
50°	5.5	6.9	6.9	6.9	6.9
52.5°	4.1	4.1	4.1	4.1	5.5
55°	2.7	2.7	2.7	2.7	4.1
57.5°	2.7	2.7	1.4	1.4	2.7
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
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)