

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: P225192

Luminaire Tested: **LD2B15D010 EU2B15FL409050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225192
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 EU2B15FL409050 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: 1147.5 lumens
Efficiency: N/A
Efficacy: 80.2 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

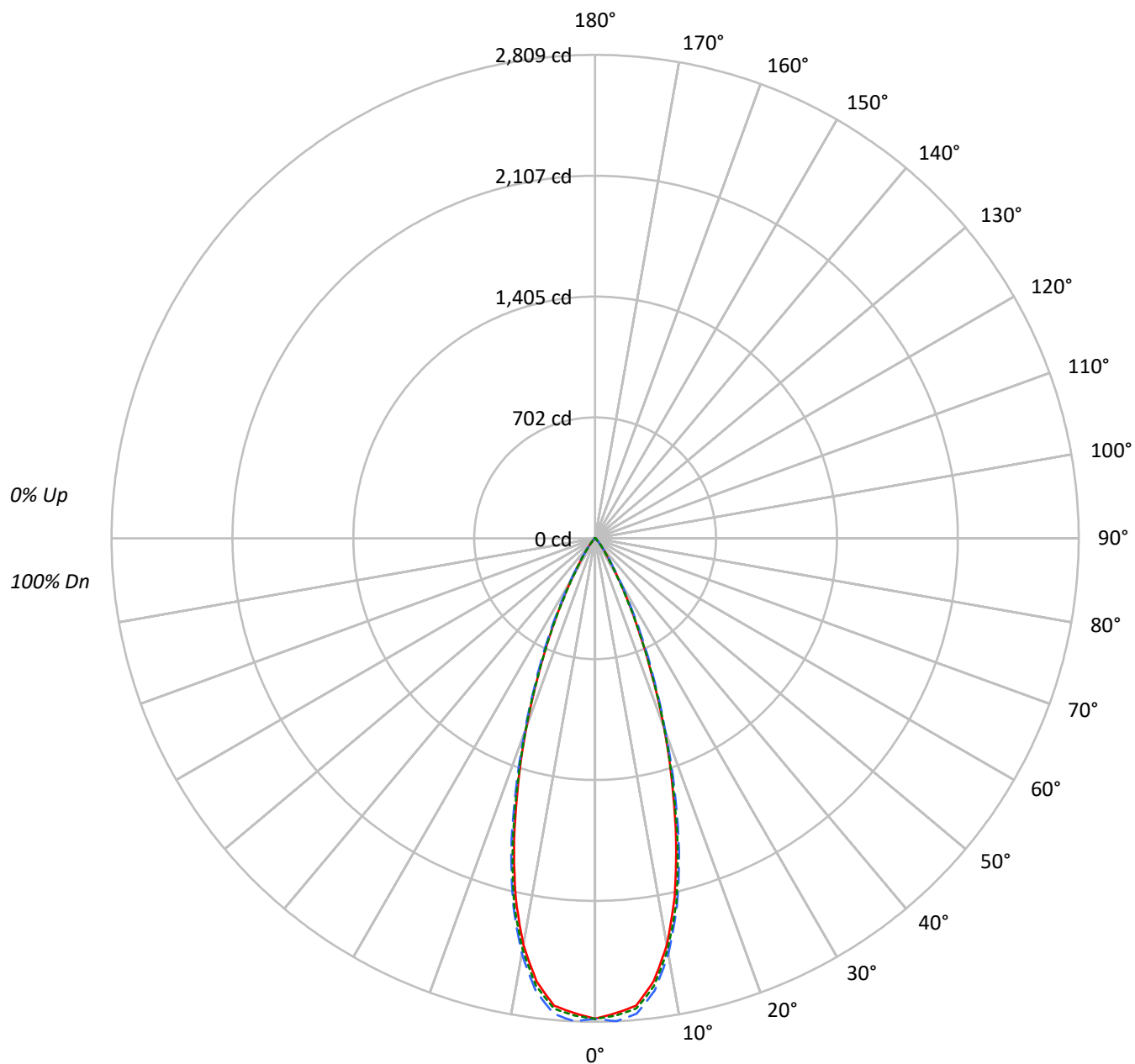
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	115	112	110	108	112	110	108	107		106	105	103			102	101	100			96
2	110	106	103	100	108	105	102	99		101	99	97			98	97	95			91
3	106	101	97	94	104	99	96	93		97	94	91			95	92	90			87
4	102	96	92	88	100	95	91	88		93	89	87			91	88	86			83
5	98	92	87	84	97	91	86	83		89	85	82			88	84	82			80
6	95	88	83	79	93	87	82	79		86	82	79			84	81	78			77
7	91	84	79	76	90	83	79	76		82	78	75			81	78	75			73
8	88	81	76	73	87	80	76	73		79	75	72			78	75	72			71
9	85	78	73	70	84	77	73	70		76	72	69			76	72	69			68
10	82	75	70	67	82	74	70	67		74	70	67			73	69	67			65

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1081393	1081393	1081393
5°	1060016	1078213	1066665
10°	943303	963559	953726
15°	728796	755102	741949
20°	480796	491060	483352
25°	262246	280282	263571
30°	118034	130602	113114
35°	50927	52440	46530
40°	21338	22097	19720
45°	8546	9422	9422
50°	3736	4700	4700
55°	2093	2093	3174
60°	1240	1240	1240
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°	252.3	22.0
10°-20°	502.3	43.8
20°-30°	296.7	25.9
30°-40°	77.2	6.7
40°-50°	15.3	1.3
50°-60°	3.3	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°	1051.4	91.6
0°-40°	1128.6	98.4
0°-60°	1147.2	100.0
0°-90°	1147.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2792	2792	2792	2792	2792	
5°	2726	2748	2773	2754	2743	249
15°	1817	1858	1883	1855	1850	493
25°	614	634	656	631	617	289
35°	108	112	111	109	98	75
45°	16	19	17	17	17	14
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°	2791.8	2791.8	2791.8	2791.8	2791.8
2.5°	2762.1	2790.2	2808.9	2793.3	2776.1
5°	2726.2	2748.0	2773.0	2754.3	2743.3
7.5°	2598.1	2630.9	2649.7	2640.3	2623.1
10°	2398.3	2423.3	2449.8	2440.4	2424.8
12.5°	2134.4	2168.8	2193.7	2171.9	2175.0
15°	1817.4	1858.0	1883.0	1854.9	1850.2
17.5°	1481.8	1513.0	1530.2	1513.0	1500.5
20°	1166.4	1185.1	1191.3	1183.5	1172.6
22.5°	861.9	882.2	900.9	882.2	868.1
25°	613.6	633.9	655.8	630.8	616.7
27.5°	413.8	426.3	445.0	421.6	401.3
30°	263.9	277.9	292.0	274.8	252.9
32.5°	167.1	176.4	178.0	174.9	156.1
35°	107.7	112.4	110.9	109.3	98.4
37.5°	68.7	68.7	70.3	68.7	62.5
40°	42.2	45.3	43.7	42.2	39.0
42.5°	25.0	28.1	26.5	26.5	25.0
45°	15.6	18.7	17.2	17.2	17.2
47.5°	10.9	12.5	10.9	10.9	12.5
50°	6.2	7.8	7.8	7.8	7.8
52.5°	4.7	4.7	4.7	4.7	6.2
55°	3.1	3.1	3.1	3.1	4.7
57.5°	3.1	3.1	1.6	1.6	3.1
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
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)