

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: P#

Luminaire Tested: **LD2B15D010 EU2B15WFL558050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15WFL558050 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1178.1 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

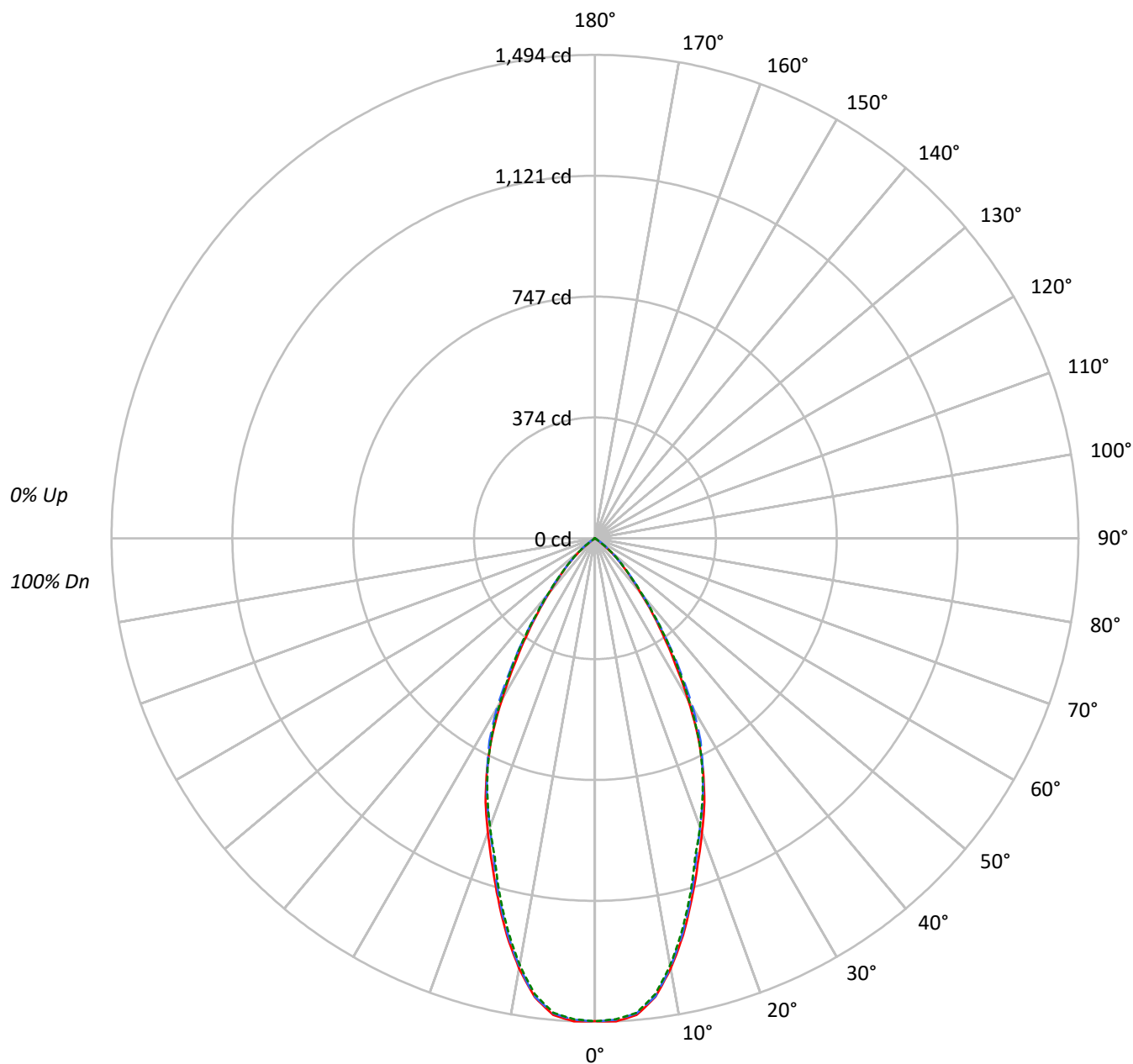
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61		
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57		
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54		
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	578153	578153	578153
5°	575073	573090	572429
10°	530748	528703	526697
15°	463127	459718	456269
20°	398685	390976	390976
25°	337552	336825	335372
30°	257135	270866	261697
35°	175054	185551	183896
40°	110433	116450	115590
45°	68200	69131	70062
50°	34951	39049	38024
55°	4592	13844	5740
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°	136.5	11.6
10°-20°	319.1	27.1
20°-30°	358.2	30.4
30°-40°	243.3	20.6
40°-50°	101.7	8.6
50°-60°	19.0	1.6
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°	813.8	69.1
0°-40°	1057.1	89.7
0°-60°	1177.8	100.0
0°-90°	1178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1479	1477	1474	1470	1472	137
15°	1155	1152	1146	1136	1138	322
25°	790	797	788	786	785	357
35°	370	382	392	384	389	235
45°	124	123	126	128	128	99
55°	7	15	20	15	8	14
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°	1492.6	1492.6	1492.6	1492.6	1492.6
2.5°	1494.4	1490.9	1489.2	1487.5	1487.5
5°	1479.0	1477.3	1473.9	1470.5	1472.2
7.5°	1429.5	1427.8	1427.8	1421.0	1421.0
10°	1349.4	1349.4	1344.2	1344.2	1339.1
12.5°	1257.2	1250.4	1250.4	1245.3	1241.9
15°	1154.9	1151.5	1146.4	1136.1	1137.8
17.5°	1055.9	1049.1	1038.9	1033.8	1030.4
20°	967.2	965.5	948.5	945.1	948.5
22.5°	883.6	885.4	871.7	868.3	868.3
25°	789.8	796.6	788.1	786.4	784.7
27.5°	689.2	701.1	706.2	694.3	692.6
30°	574.9	595.4	605.6	593.6	585.1
32.5°	464.0	484.5	494.7	486.2	481.1
35°	370.2	382.1	392.4	383.8	388.9
37.5°	290.0	296.8	300.2	300.2	300.2
40°	218.4	225.2	230.3	232.0	228.6
42.5°	165.5	168.9	172.3	174.0	172.3
45°	124.5	122.8	126.2	127.9	127.9
47.5°	90.4	90.4	92.1	93.8	93.8
50°	58.0	61.4	64.8	63.1	63.1
52.5°	25.6	35.8	42.6	35.8	29.0
55°	6.8	15.4	20.5	15.4	8.5
57.5°	1.7	5.1	6.8	5.1	3.4
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)