

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 EU2B15WFL558030 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 EU2B15WFL558030 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

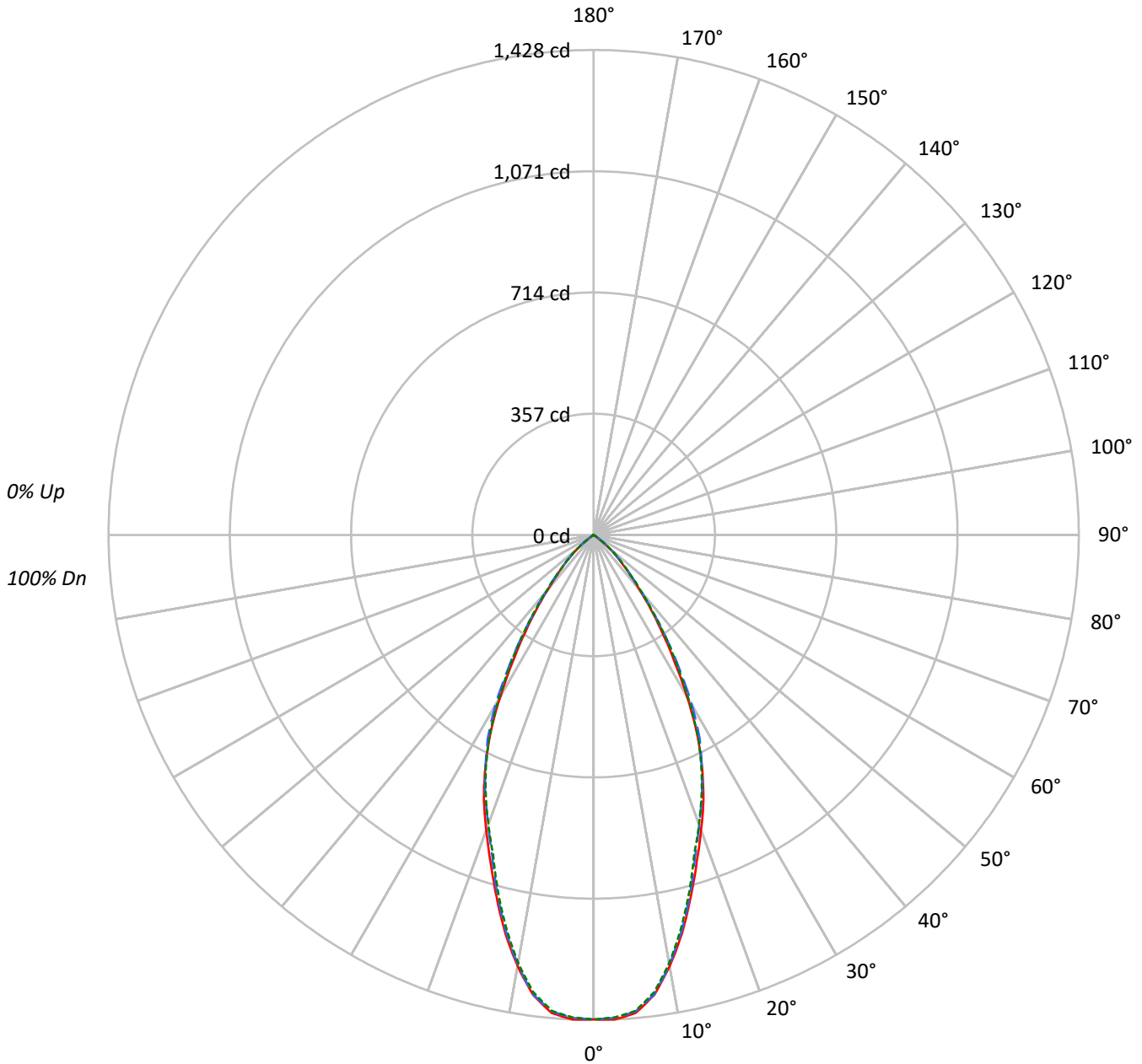
Lumens per Lamp: N/A
Luminaire Lumens: 1126.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (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					70					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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87					87			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81					81			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75					75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70					70			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65					65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61					61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57					57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54					54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51					51			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	552588	552588	552588
5°	549644	547739	547116
10°	507267	505339	503412
15°	442635	439387	436098
20°	381084	373664	373664
25°	322636	321952	320542
30°	245774	258879	250113
35°	167299	177323	175763
40°	105528	111292	110483
45°	65187	66118	66995
50°	33384	37361	36337
55°	4390	13236	5538
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°	130.5	11.6
10°-20°	305.0	27.1
20°-30°	342.3	30.4
30°-40°	232.5	20.6
40°-50°	97.2	8.6
50°-60°	18.2	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°	777.8	69.1
0°-40°	1010.4	89.7
0°-60°	1125.7	100.0
0°-90°	1126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1414	1412	1409	1405	1407	131
15°	1104	1100	1096	1086	1088	308
25°	755	761	753	752	750	342
35°	354	365	375	367	372	224
45°	119	117	121	122	122	94
55°	6	15	20	15	8	13
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°	1426.6	1426.6	1426.6	1426.6	1426.6
2.5°	1428.3	1425.0	1423.4	1421.7	1421.7
5°	1413.6	1412.0	1408.7	1405.4	1407.1
7.5°	1366.3	1364.7	1364.7	1358.2	1358.2
10°	1289.7	1289.7	1284.8	1284.8	1279.9
12.5°	1201.6	1195.1	1195.1	1190.2	1187.0
15°	1103.8	1100.5	1095.7	1085.9	1087.5
17.5°	1009.2	1002.7	992.9	988.0	984.8
20°	924.5	922.8	906.5	903.3	906.5
22.5°	844.6	846.2	833.2	829.9	829.9
25°	754.9	761.4	753.3	751.6	750.0
27.5°	658.7	670.1	675.0	663.6	662.0
30°	549.5	569.0	578.8	567.4	559.2
32.5°	443.5	463.0	472.8	464.7	459.8
35°	353.8	365.2	375.0	366.8	371.7
37.5°	277.2	283.7	287.0	287.0	287.0
40°	208.7	215.2	220.1	221.7	218.5
42.5°	158.2	161.4	164.7	166.3	164.7
45°	119.0	117.4	120.7	122.3	122.3
47.5°	86.4	86.4	88.0	89.7	89.7
50°	55.4	58.7	62.0	60.3	60.3
52.5°	24.5	34.2	40.8	34.2	27.7
55°	6.5	14.7	19.6	14.7	8.2
57.5°	1.6	4.9	6.5	4.9	3.3
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)