

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: P225254

Luminaire Tested: **LD2B10D010 EU2B10FL409027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225254
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: LD2B10D010 EU2B10FL409027 2LBDSQLC*MB
Description: 1000 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: 691.1 lumens
Efficiency: N/A
Efficacy: 67.1 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

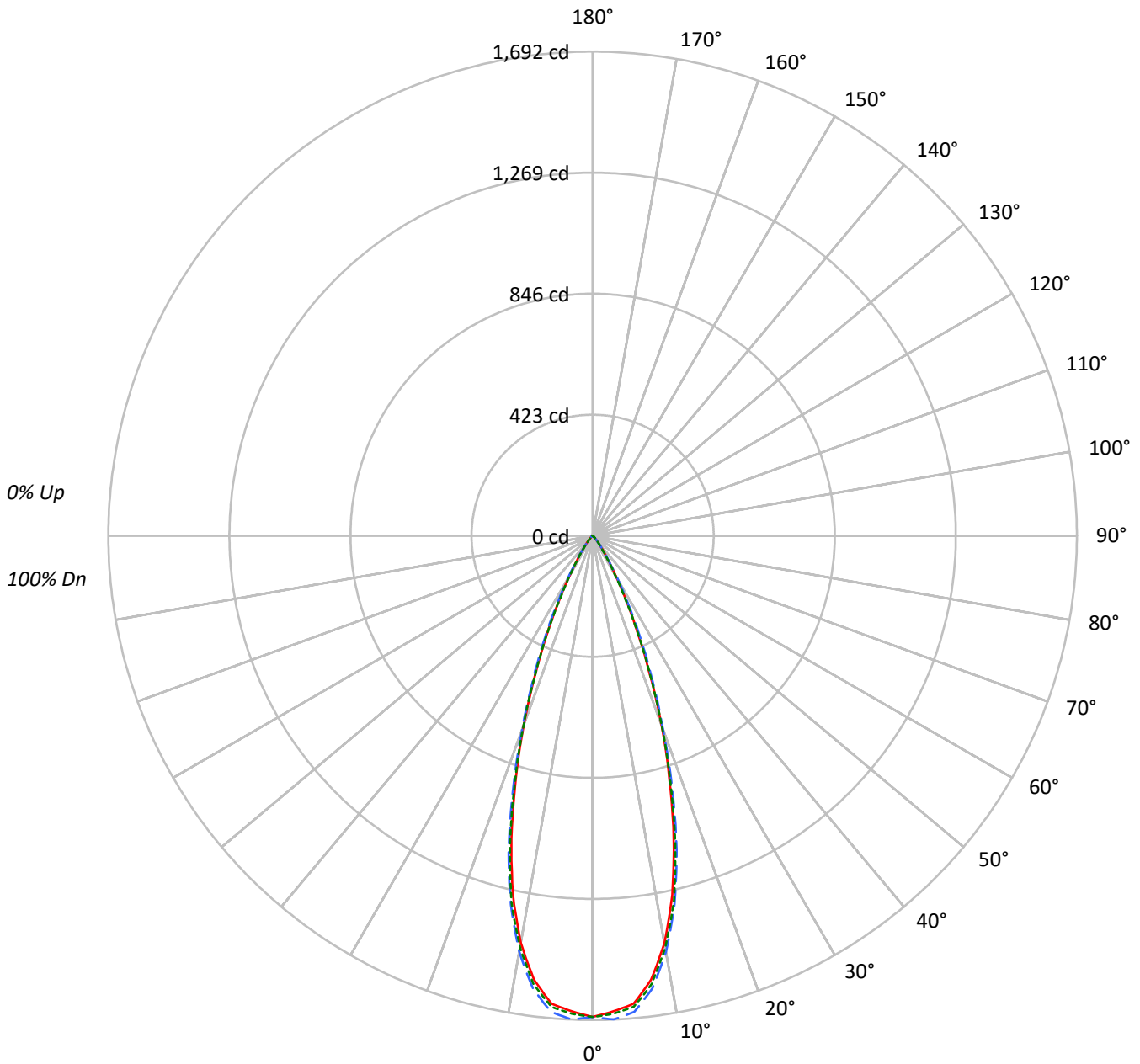
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	651284	651284	651284
5°	638413	649378	642418
10°	568113	580306	574407
15°	438946	454786	446846
20°	289574	295757	291099
25°	157963	168819	158732
30°	71071	78630	68119
35°	30689	31587	27993
40°	12843	13298	11883
45°	5149	5642	5642
50°	2290	2832	2832
55°	1283	1283	1891
60°	697	697	697
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°	152.0	22.0
10°-20°	302.5	43.8
20°-30°	178.7	25.9
30°-40°	46.5	6.7
40°-50°	9.2	1.3
50°-60°	2.0	0.3
60°-70°	0.2	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°	633.2	91.6
0°-40°	679.7	98.4
0°-60°	690.9	100.0
0°-90°	691.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1642	1655	1670	1659	1652	150
15°	1095	1119	1134	1117	1114	297
25°	370	382	395	380	371	174
35°	65	68	67	66	59	45
45°	9	11	10	10	10	9
55°	2	2	2	2	3	2
65°	0	0	0	0	0	0
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°	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1663.5	1680.4	1691.7	1682.3	1672.0
5°	1641.9	1655.0	1670.1	1658.8	1652.2
7.5°	1564.8	1584.5	1595.8	1590.2	1579.8
10°	1444.4	1459.4	1475.4	1469.8	1460.4
12.5°	1285.5	1306.2	1321.2	1308.1	1309.9
15°	1094.6	1119.0	1134.1	1117.2	1114.3
17.5°	892.4	911.2	921.6	911.2	903.7
20°	702.5	713.7	717.5	712.8	706.2
22.5°	519.1	531.3	542.6	531.3	522.8
25°	369.6	381.8	395.0	379.9	371.4
27.5°	249.2	256.7	268.0	253.9	241.7
30°	158.9	167.4	175.8	165.5	152.3
32.5°	100.6	106.3	107.2	105.3	94.0
35°	64.9	67.7	66.8	65.8	59.2
37.5°	41.4	41.4	42.3	41.4	37.6
40°	25.4	27.3	26.3	25.4	23.5
42.5°	15.0	16.9	16.0	16.0	15.0
45°	9.4	11.3	10.3	10.3	10.3
47.5°	6.6	7.5	6.6	6.6	7.5
50°	3.8	4.7	4.7	4.7	4.7
52.5°	2.8	2.8	2.8	2.8	3.8
55°	1.9	1.9	1.9	1.9	2.8
57.5°	1.9	1.9	0.9	0.9	1.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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)