

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: P225224

Luminaire Tested: **LD2B10D010 EU2B10FL409040 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225224
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 EU2B10FL409040 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: 764.5 lumens
Efficiency: N/A
Efficacy: 74.2 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

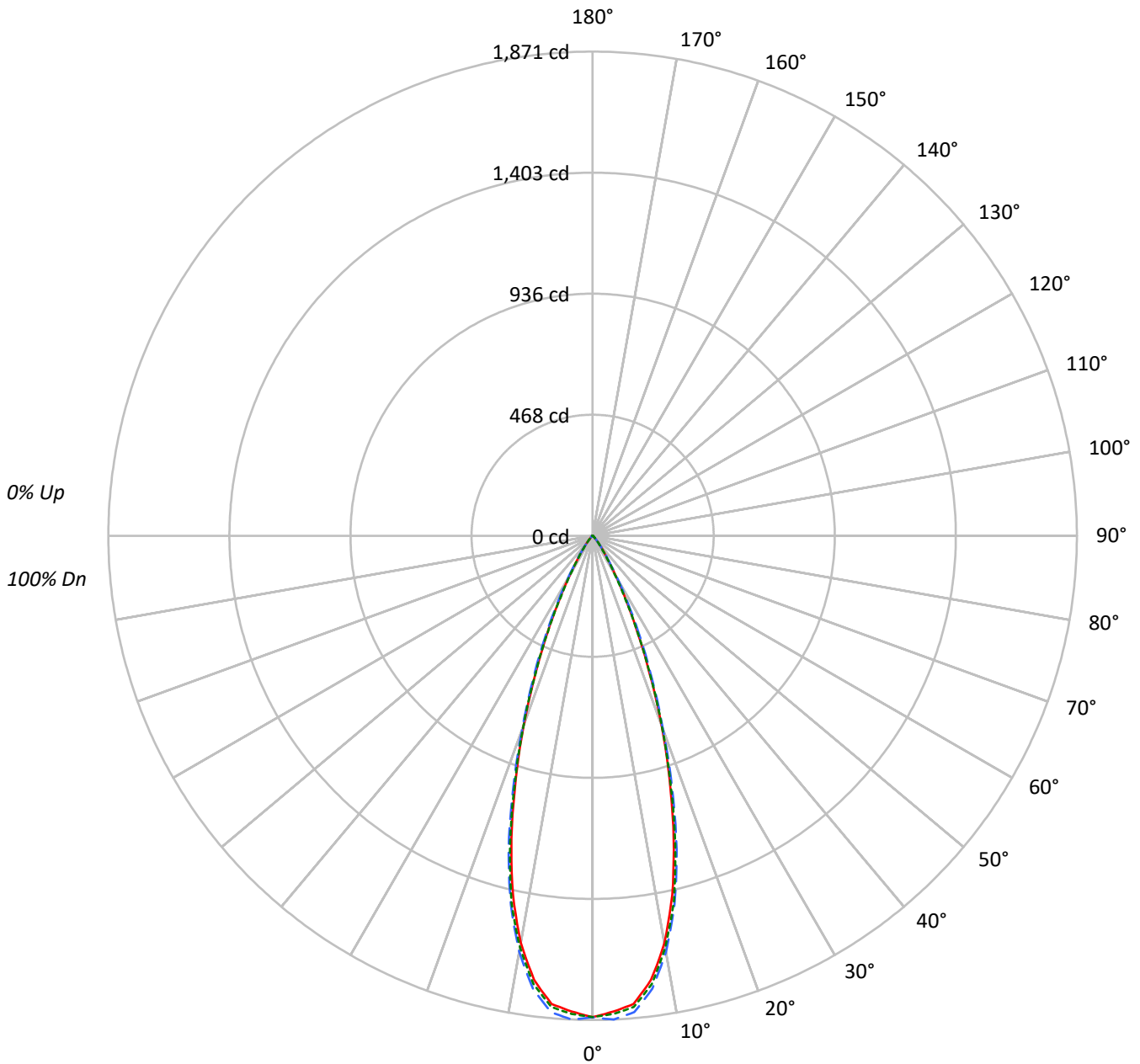
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	720464	720464	720464
5°	706224	718355	710657
10°	628449	641940	635411
15°	485543	503067	494325
20°	320324	327167	322015
25°	174717	186726	175614
30°	78630	86994	75365
35°	33952	34945	30972
40°	14209	14714	13147
45°	5697	6245	6245
50°	2531	3134	3134
55°	1418	1418	2093
60°	775	775	775
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°	168.1	22.0
10°-20°	334.7	43.8
20°-30°	197.7	25.9
30°-40°	51.5	6.7
40°-50°	10.2	1.3
50°-60°	2.2	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°	700.4	91.6
0°-40°	751.9	98.4
0°-60°	764.3	100.0
0°-90°	764.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1816	1831	1848	1835	1828	166
15°	1211	1238	1254	1236	1233	329
25°	409	422	437	420	411	193
35°	72	75	74	73	66	50
45°	10	12	11	11	11	10
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1840.2	1858.9	1871.4	1861.0	1849.5
5°	1816.3	1830.8	1847.5	1835.0	1827.7
7.5°	1731.0	1752.8	1765.3	1759.0	1747.6
10°	1597.8	1614.5	1632.1	1625.9	1615.5
12.5°	1422.0	1444.9	1461.5	1447.0	1449.1
15°	1210.8	1237.9	1254.5	1235.8	1232.7
17.5°	987.2	1008.0	1019.4	1008.0	999.7
20°	777.1	789.5	793.7	788.5	781.2
22.5°	574.2	587.7	600.2	587.7	578.4
25°	408.8	422.3	436.9	420.3	410.9
27.5°	275.7	284.0	296.5	280.9	267.3
30°	175.8	185.2	194.5	183.1	168.5
32.5°	111.3	117.5	118.6	116.5	104.0
35°	71.8	74.9	73.9	72.8	65.5
37.5°	45.8	45.8	46.8	45.8	41.6
40°	28.1	30.2	29.1	28.1	26.0
42.5°	16.6	18.7	17.7	17.7	16.6
45°	10.4	12.5	11.4	11.4	11.4
47.5°	7.3	8.3	7.3	7.3	8.3
50°	4.2	5.2	5.2	5.2	5.2
52.5°	3.1	3.1	3.1	3.1	4.2
55°	2.1	2.1	2.1	2.1	3.1
57.5°	2.1	2.1	1.0	1.0	2.1
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)