

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: P225262

Luminaire Tested: **LD2B20D010 EU2B20FL408027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225262
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: LD2B20D010 EU2B20FL408027 2LBDSQLC*MB
Description: 2000 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: 1591.7 lumens
Efficiency: N/A
Efficacy: 76.2 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

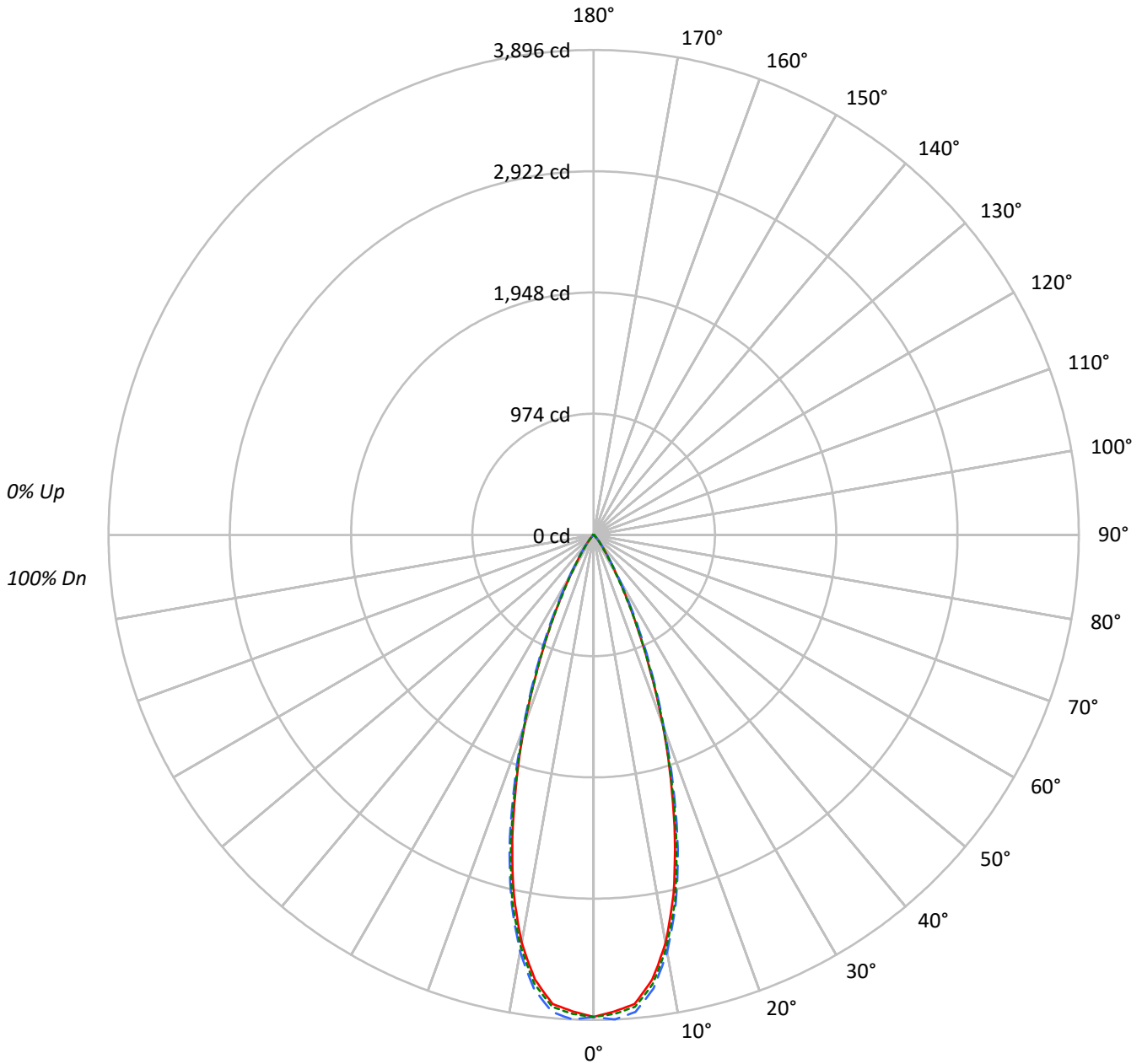
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1499959	1499959	1499959
5°	1470344	1495618	1479598
10°	1308462	1336546	1322937
15°	1010946	1047438	1029192
20°	666865	681169	670451
25°	363794	388753	365631
30°	163700	181144	156947
35°	70646	72726	64498
40°	29580	30642	27355
45°	11887	13037	13037
50°	5243	6508	6508
55°	2904	2904	4390
60°	1704	1704	1704
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°	350.0	22.0
10°-20°	696.8	43.8
20°-30°	411.6	25.9
30°-40°	107.1	6.7
40°-50°	21.2	1.3
50°-60°	4.6	0.3
60°-70°	0.4	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°	1458.3	91.6
0°-40°	1565.5	98.4
0°-60°	1591.3	100.0
0°-90°	1591.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3872	3872	3872	3872	3872	
5°	3782	3812	3846	3820	3805	346
15°	2521	2577	2612	2573	2566	684
25°	851	879	910	875	856	401
35°	149	156	154	152	136	105
45°	22	26	24	24	24	20
55°	4	4	4	4	6	5
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3872.4	3872.4	3872.4	3872.4	3872.4
2.5°	3831.3	3870.3	3896.3	3874.6	3850.8
5°	3781.5	3811.8	3846.5	3820.5	3805.3
7.5°	3603.9	3649.4	3675.4	3662.4	3638.5
10°	3326.7	3361.3	3398.1	3385.1	3363.5
12.5°	2960.6	3008.3	3042.9	3012.6	3017.0
15°	2521.0	2577.3	2612.0	2573.0	2566.5
17.5°	2055.3	2098.7	2122.5	2098.7	2081.3
20°	1617.8	1643.8	1652.5	1641.7	1626.5
22.5°	1195.5	1223.7	1249.7	1223.7	1204.2
25°	851.2	879.3	909.6	875.0	855.5
27.5°	573.9	591.3	617.3	584.8	556.6
30°	366.0	385.5	405.0	381.2	350.9
32.5°	231.7	244.7	246.9	242.6	216.6
35°	149.4	155.9	153.8	151.6	136.4
37.5°	95.3	95.3	97.5	95.3	86.6
40°	58.5	62.8	60.6	58.5	54.1
42.5°	34.7	39.0	36.8	36.8	34.7
45°	21.7	26.0	23.8	23.8	23.8
47.5°	15.2	17.3	15.2	15.2	17.3
50°	8.7	10.8	10.8	10.8	10.8
52.5°	6.5	6.5	6.5	6.5	8.7
55°	4.3	4.3	4.3	4.3	6.5
57.5°	4.3	4.3	2.2	2.2	4.3
60°	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	0.0	0.0	0.0	2.2
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)