

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: P225238

Luminaire Tested: **LD2B20D010 EU2B20FL409727 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225238
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 EU2B20FL409727 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: 1128.9 lumens
Efficiency: N/A
Efficacy: 54.0 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

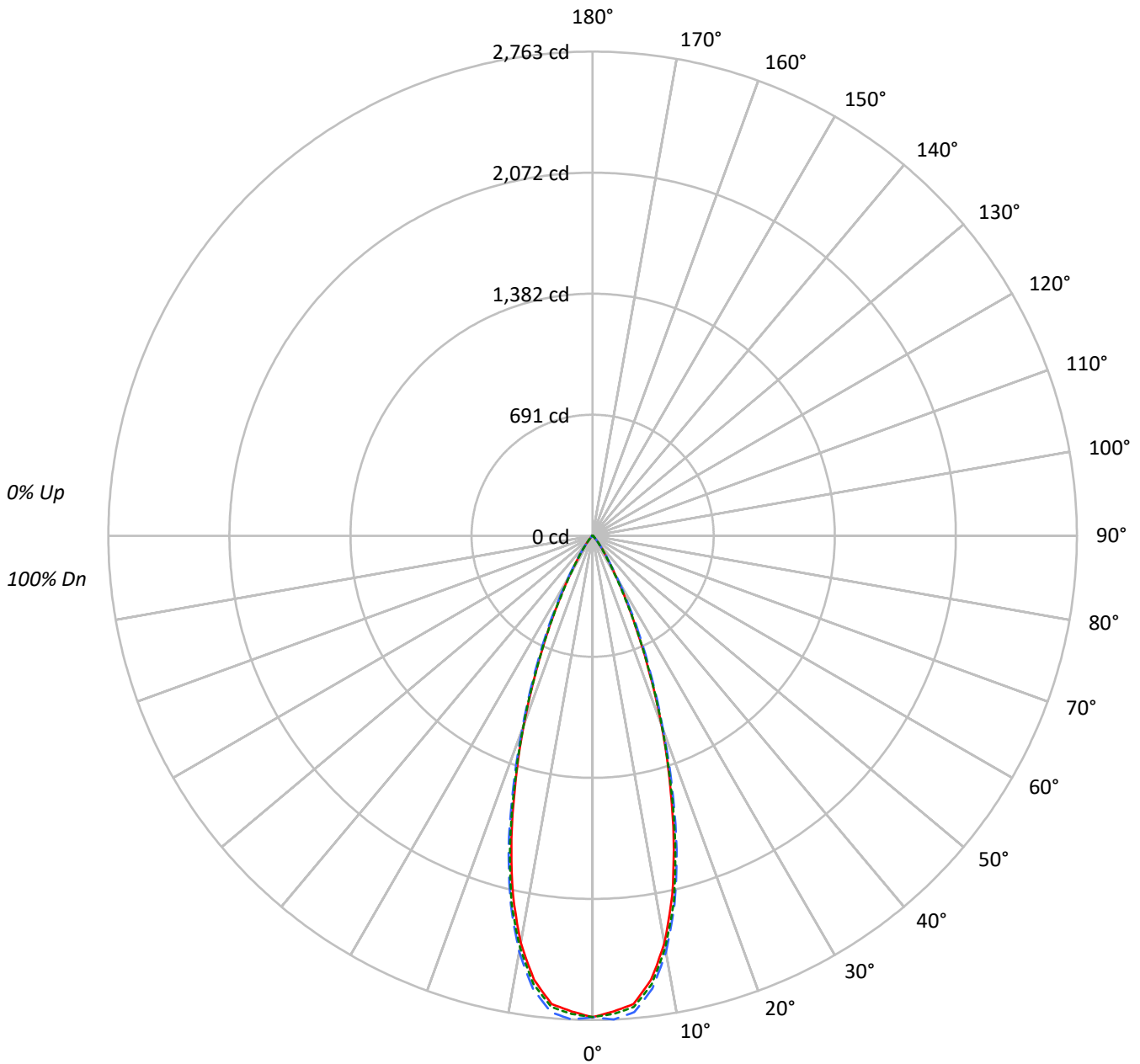
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1063846	1063846	1063846
5°	1042830	1060755	1049401
10°	928003	947944	938268
15°	717006	742871	729919
20°	472964	483104	475520
25°	258015	275751	259297
30°	116111	128456	111280
35°	50123	51589	45773
40°	20984	21743	19417
45°	8436	9258	9258
50°	3676	4640	4640
55°	2093	2093	3106
60°	1162	1162	1162
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°	248.2	22.0
10°-20°	494.2	43.8
20°-30°	291.9	25.9
30°-40°	76.0	6.7
40°-50°	15.0	1.3
50°-60°	3.3	0.3
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°	1034.3	91.6
0°-40°	1110.3	98.4
0°-60°	1128.6	100.0
0°-90°	1128.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2682	2704	2728	2710	2699	245
15°	1788	1828	1852	1825	1820	485
25°	604	624	645	621	607	284
35°	106	111	109	108	97	74
45°	15	18	17	17	17	14
55°	3	3	3	3	5	3
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°	2746.5	2746.5	2746.5	2746.5	2746.5
2.5°	2717.3	2745.0	2763.4	2748.0	2731.1
5°	2682.0	2703.5	2728.1	2709.6	2698.9
7.5°	2556.0	2588.3	2606.7	2597.5	2580.6
10°	2359.4	2384.0	2410.1	2400.9	2385.5
12.5°	2099.8	2133.6	2158.2	2136.7	2139.7
15°	1788.0	1827.9	1852.5	1824.9	1820.2
17.5°	1457.7	1488.5	1505.4	1488.5	1476.2
20°	1147.4	1165.9	1172.0	1164.3	1153.6
22.5°	847.9	867.9	886.3	867.9	854.1
25°	603.7	623.6	645.2	620.6	606.7
27.5°	407.1	419.3	437.8	414.7	394.8
30°	259.6	273.4	287.2	270.3	248.8
32.5°	164.4	173.6	175.1	172.0	153.6
35°	106.0	110.6	109.1	107.5	96.8
37.5°	67.6	67.6	69.1	67.6	61.4
40°	41.5	44.5	43.0	41.5	38.4
42.5°	24.6	27.6	26.1	26.1	24.6
45°	15.4	18.4	16.9	16.9	16.9
47.5°	10.8	12.3	10.8	10.8	12.3
50°	6.1	7.7	7.7	7.7	7.7
52.5°	4.6	4.6	4.6	4.6	6.1
55°	3.1	3.1	3.1	3.1	4.6
57.5°	3.1	3.1	1.5	1.5	3.1
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	0.0	0.0	0.0	1.5
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)