

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: P225215

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225215
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 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1727.4 lumens
Efficiency: N/A
Efficacy: 82.6 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

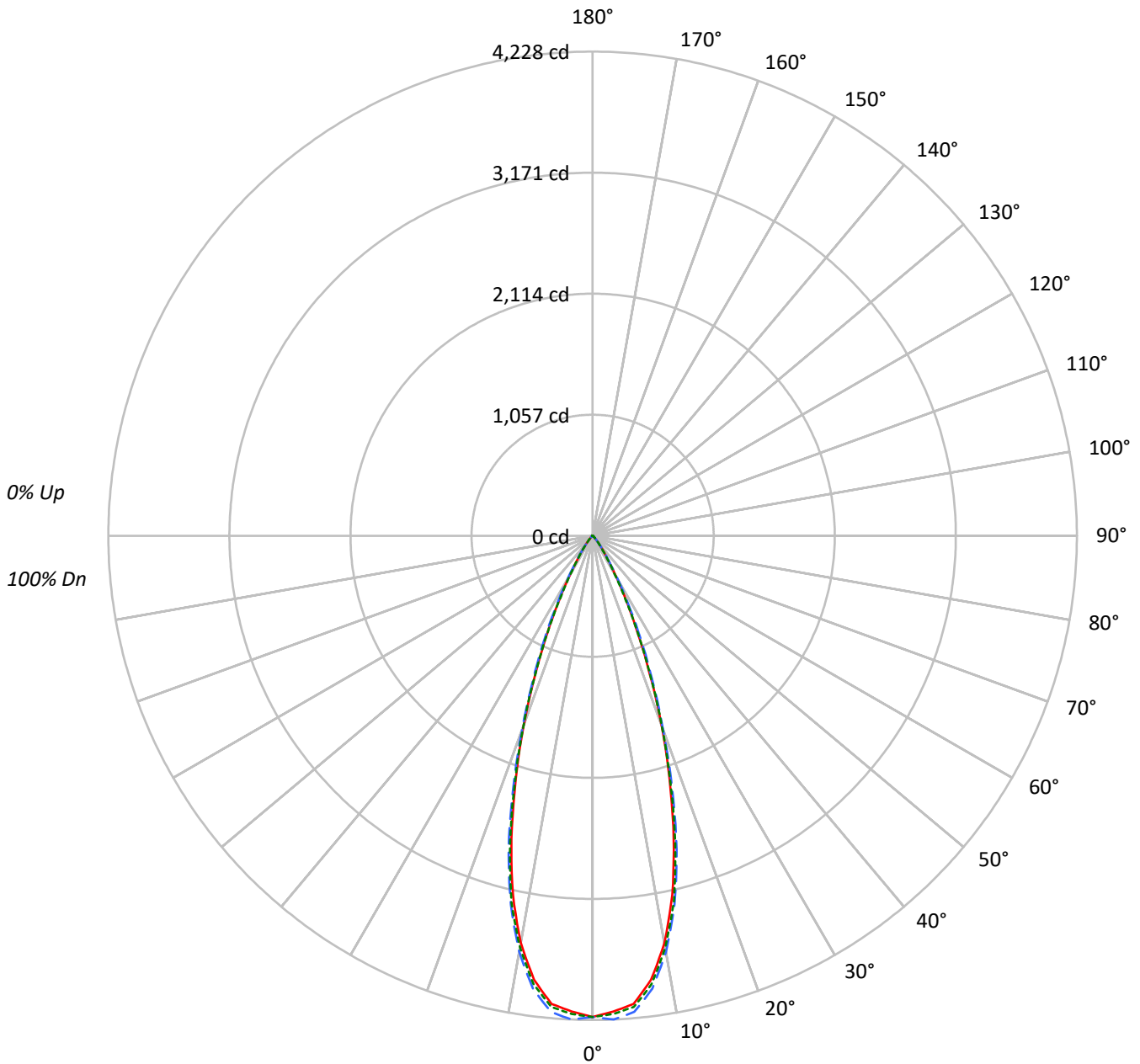
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	1627744	1627744	1627744
5°	1595585	1622997	1605655
10°	1419930	1450412	1435623
15°	1097083	1136663	1116853
20°	723708	739207	727583
25°	394779	421876	396788
30°	177655	196575	170275
35°	76698	78921	70031
40°	32108	33271	29732
45°	12873	14188	14188
50°	5664	7111	7111
55°	3174	3174	4795
60°	1859	1859	1859
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°	379.8	22.0
10°-20°	756.1	43.8
20°-30°	446.6	25.9
30°-40°	116.3	6.7
40°-50°	23.0	1.3
50°-60°	5.1	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°	1582.6	91.6
0°-40°	1698.9	98.3
0°-60°	1726.9	100.0
0°-90°	1727.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1727.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4202	4202	4202	4202	4202	
5°	4104	4136	4174	4146	4130	375
15°	2736	2797	2834	2792	2785	742
25°	924	954	987	950	928	435
35°	162	169	167	164	148	113
45°	24	28	26	26	26	22
55°	5	5	5	5	7	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°	4202.3	4202.3	4202.3	4202.3	4202.3
2.5°	4157.7	4200.0	4228.2	4204.7	4178.8
5°	4103.6	4136.5	4174.1	4145.9	4129.5
7.5°	3910.9	3960.3	3988.5	3974.4	3948.5
10°	3610.1	3647.7	3687.6	3673.5	3650.0
12.5°	3212.9	3264.6	3302.2	3269.3	3274.0
15°	2735.8	2796.9	2834.5	2792.2	2785.1
17.5°	2230.4	2277.4	2303.3	2277.4	2258.6
20°	1755.7	1783.9	1793.3	1781.5	1765.1
22.5°	1297.4	1327.9	1356.1	1327.9	1306.8
25°	923.7	954.2	987.1	949.5	928.4
27.5°	622.8	641.6	669.8	634.6	604.0
30°	397.2	418.4	439.5	413.7	380.7
32.5°	251.5	265.6	267.9	263.2	235.0
35°	162.2	169.2	166.9	164.5	148.1
37.5°	103.4	103.4	105.8	103.4	94.0
40°	63.5	68.2	65.8	63.5	58.8
42.5°	37.6	42.3	40.0	40.0	37.6
45°	23.5	28.2	25.9	25.9	25.9
47.5°	16.5	18.8	16.5	16.5	18.8
50°	9.4	11.8	11.8	11.8	11.8
52.5°	7.1	7.1	7.1	7.1	9.4
55°	4.7	4.7	4.7	4.7	7.1
57.5°	4.7	4.7	2.4	2.4	4.7
60°	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	0.0	0.0	0.0	2.4
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)