

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: P225216

Luminaire Tested: **LD2B20D010 EU2B20FL408030 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225216
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 EU2B20FL408030 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: 1761.2 lumens
Efficiency: N/A
Efficacy: 84.3 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

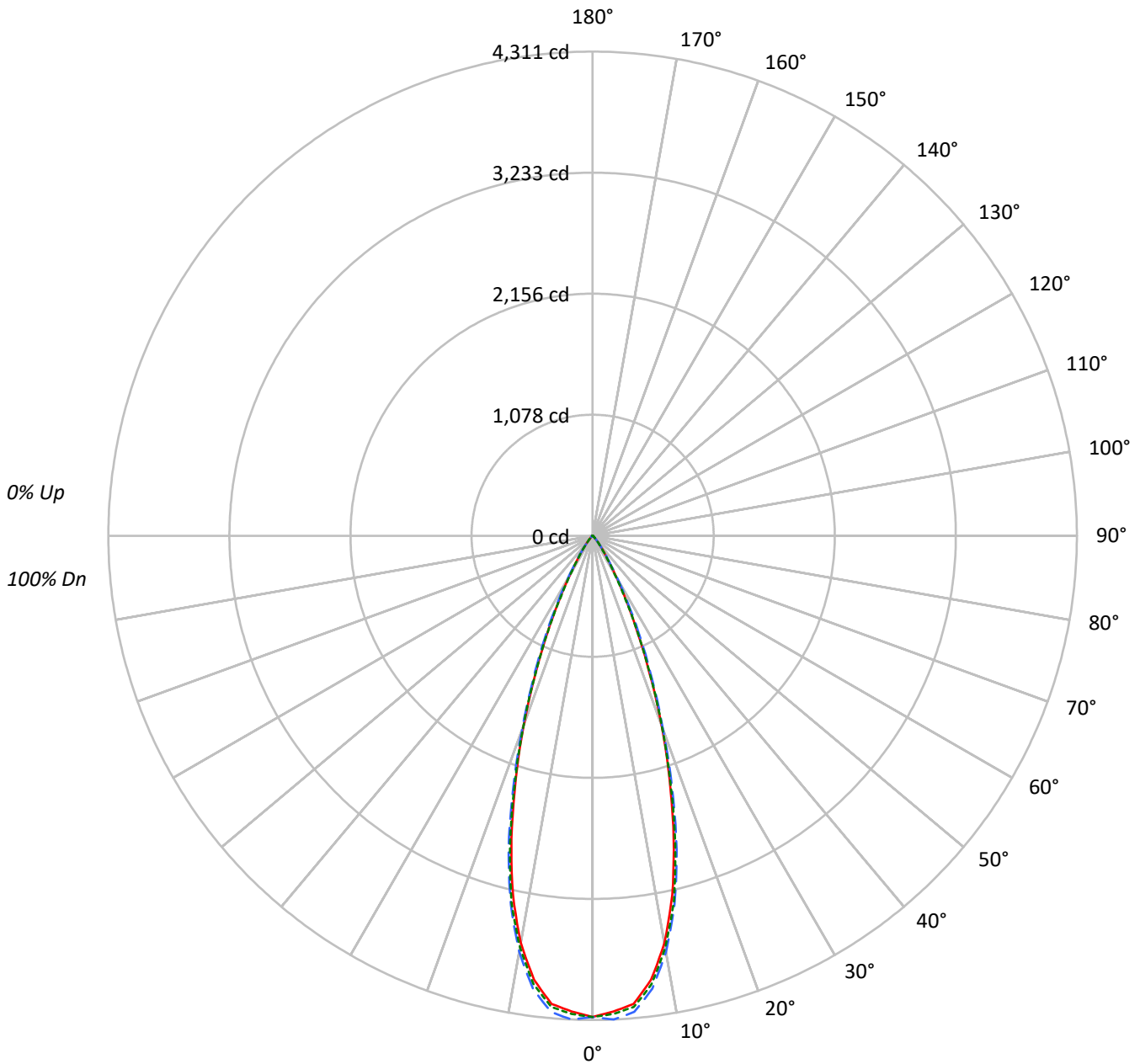
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1659700	1659700	1659700
5°	1626924	1654881	1637150
10°	1447777	1478889	1463824
15°	1118578	1158959	1138788
20°	737888	753717	741845
25°	402515	430167	404566
30°	181144	200421	173630
35°	78211	80434	71402
40°	32715	33929	30288
45°	13147	14462	14462
50°	5785	7231	7231
55°	3242	3242	4862
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°	387.3	22.0
10°-20°	771.0	43.8
20°-30°	455.4	25.9
30°-40°	118.6	6.7
40°-50°	23.4	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°	1613.6	91.6
0°-40°	1732.2	98.4
0°-60°	1760.8	100.0
0°-90°	1761.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1761.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4285	4285	4285	4285	4285	
5°	4184	4218	4256	4227	4210	383
15°	2789	2852	2890	2847	2840	757
25°	942	973	1006	968	947	444
35°	165	172	170	168	151	116
45°	24	29	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4284.8	4284.8	4284.8	4284.8	4284.8
2.5°	4239.3	4282.4	4311.2	4287.2	4260.9
5°	4184.2	4217.7	4256.1	4227.3	4210.5
7.5°	3987.7	4038.0	4066.7	4052.4	4026.0
10°	3680.9	3719.3	3760.0	3745.6	3721.7
12.5°	3275.9	3328.6	3367.0	3333.4	3338.2
15°	2789.4	2851.8	2890.1	2847.0	2839.8
17.5°	2274.2	2322.1	2348.5	2322.1	2303.0
20°	1790.1	1818.9	1828.5	1816.5	1799.7
22.5°	1322.8	1354.0	1382.7	1354.0	1332.4
25°	941.8	973.0	1006.5	968.2	946.6
27.5°	635.1	654.2	683.0	647.0	615.9
30°	405.0	426.6	448.1	421.8	388.2
32.5°	256.4	270.8	273.2	268.4	239.6
35°	165.4	172.5	170.1	167.8	151.0
37.5°	105.4	105.4	107.8	105.4	95.9
40°	64.7	69.5	67.1	64.7	59.9
42.5°	38.3	43.1	40.7	40.7	38.3
45°	24.0	28.8	26.4	26.4	26.4
47.5°	16.8	19.2	16.8	16.8	19.2
50°	9.6	12.0	12.0	12.0	12.0
52.5°	7.2	7.2	7.2	7.2	9.6
55°	4.8	4.8	4.8	4.8	7.2
57.5°	4.8	4.8	2.4	2.4	4.8
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)