

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: P225198

Luminaire Tested: **LD2B20D010 EU2B20FL409024 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225198
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 EU2B20FL409024 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: 1264.6 lumens
Efficiency: N/A
Efficacy: 60.5 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

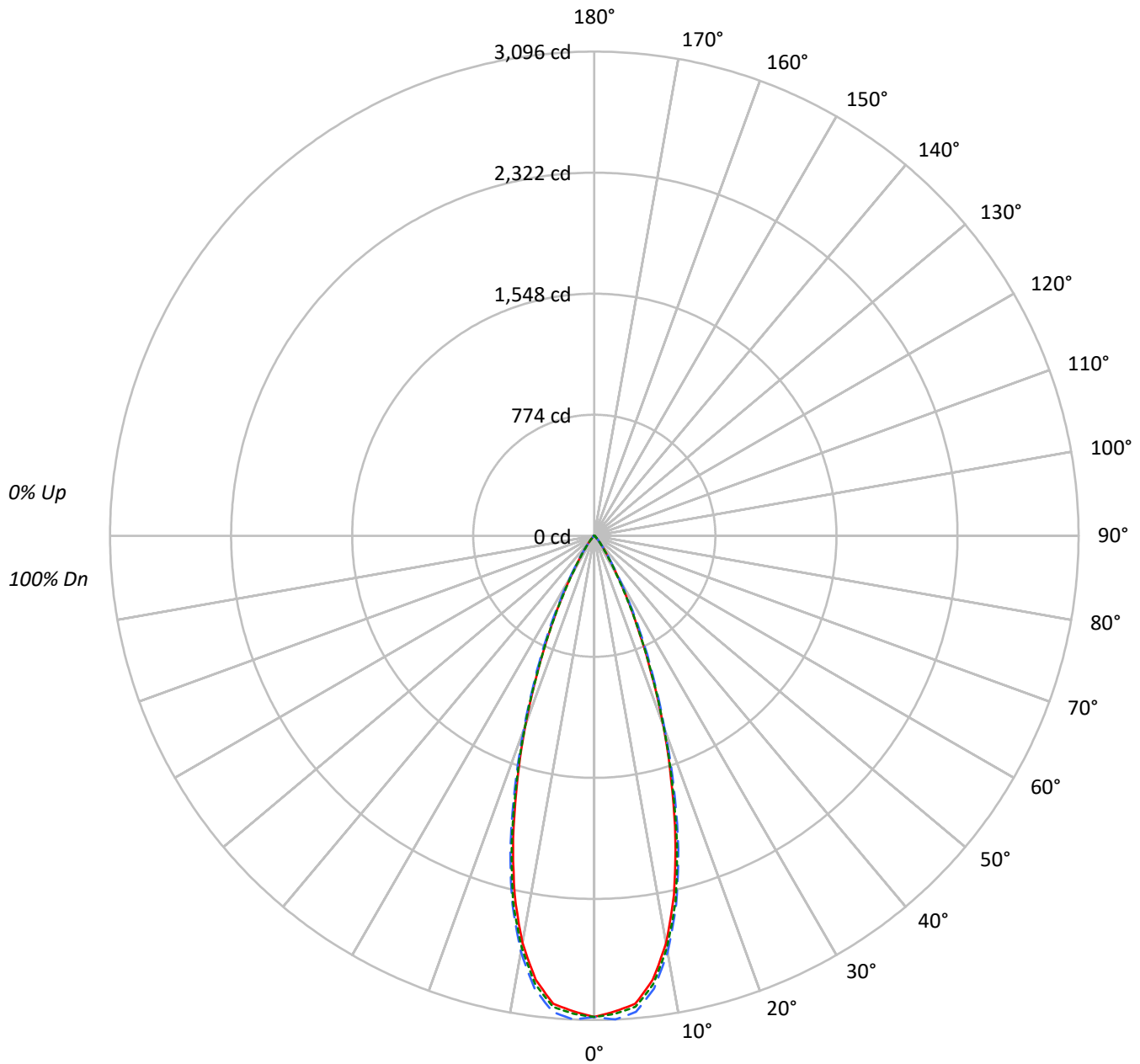
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		102	101	100		99
2	110	106	103	100	108	105	102	99	101	99	97		98	97	95		96
3	106	101	97	94	104	99	96	93	97	94	91		95	92	90		92
4	102	96	92	88	100	95	91	88	93	89	87		91	88	86		89
5	98	92	87	84	97	91	86	83	89	85	82		88	84	82		86
6	95	88	83	79	93	87	82	79	86	82	79		84	81	78		83
7	91	84	79	76	90	83	79	76	82	78	75		81	78	75		80
8	88	81	76	73	87	80	76	73	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	69		76	72	69		75
10	82	75	70	67	82	74	70	67	74	70	67		73	69	67		72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1191709	1191709	1191709
5°	1168188	1188251	1175536
10°	1039549	1061889	1051073
15°	803183	832176	817700
20°	529848	541184	532693
25°	289000	308874	290496
30°	130066	143931	124698
35°	56129	57784	51258
40°	23512	24372	21743
45°	9422	10353	10353
50°	4158	5182	5182
55°	2296	2296	3512
60°	1317	1317	1317
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°	278.1	22.0
10°-20°	553.6	43.8
20°-30°	327.0	25.9
30°-40°	85.1	6.7
40°-50°	16.8	1.3
50°-60°	3.7	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°	1158.6	91.6
0°-40°	1243.8	98.4
0°-60°	1264.3	100.0
0°-90°	1264.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3077	3077	3077	3077	3077	
5°	3004	3028	3056	3035	3023	275
15°	2003	2048	2075	2044	2039	543
25°	676	699	723	695	680	319
35°	119	124	122	120	108	83
45°	17	21	19	19	19	16
55°	3	3	3	3	5	4
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°	3076.6	3076.6	3076.6	3076.6	3076.6
2.5°	3043.9	3074.9	3095.6	3078.4	3059.4
5°	3004.4	3028.5	3056.0	3035.3	3023.3
7.5°	2863.3	2899.4	2920.1	2909.7	2890.8
10°	2643.0	2670.6	2699.8	2689.5	2672.3
12.5°	2352.2	2390.1	2417.6	2393.5	2397.0
15°	2002.9	2047.7	2075.2	2044.2	2039.1
17.5°	1633.0	1667.4	1686.3	1667.4	1653.6
20°	1285.4	1306.0	1312.9	1304.3	1292.3
22.5°	949.8	972.2	992.9	972.2	956.7
25°	676.2	698.6	722.7	695.2	679.7
27.5°	456.0	469.8	490.4	464.6	442.2
30°	290.8	306.3	321.8	302.8	278.8
32.5°	184.1	194.4	196.2	192.7	172.1
35°	118.7	123.9	122.2	120.5	108.4
37.5°	75.7	75.7	77.4	75.7	68.8
40°	46.5	49.9	48.2	46.5	43.0
42.5°	27.5	31.0	29.3	29.3	27.5
45°	17.2	20.6	18.9	18.9	18.9
47.5°	12.0	13.8	12.0	12.0	13.8
50°	6.9	8.6	8.6	8.6	8.6
52.5°	5.2	5.2	5.2	5.2	6.9
55°	3.4	3.4	3.4	3.4	5.2
57.5°	3.4	3.4	1.7	1.7	3.4
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.0	0.0	0.0	1.7
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)