

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: P224739

Luminaire Tested: **LD2B20D010 EU2B20FL408030 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408030 2LBD*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

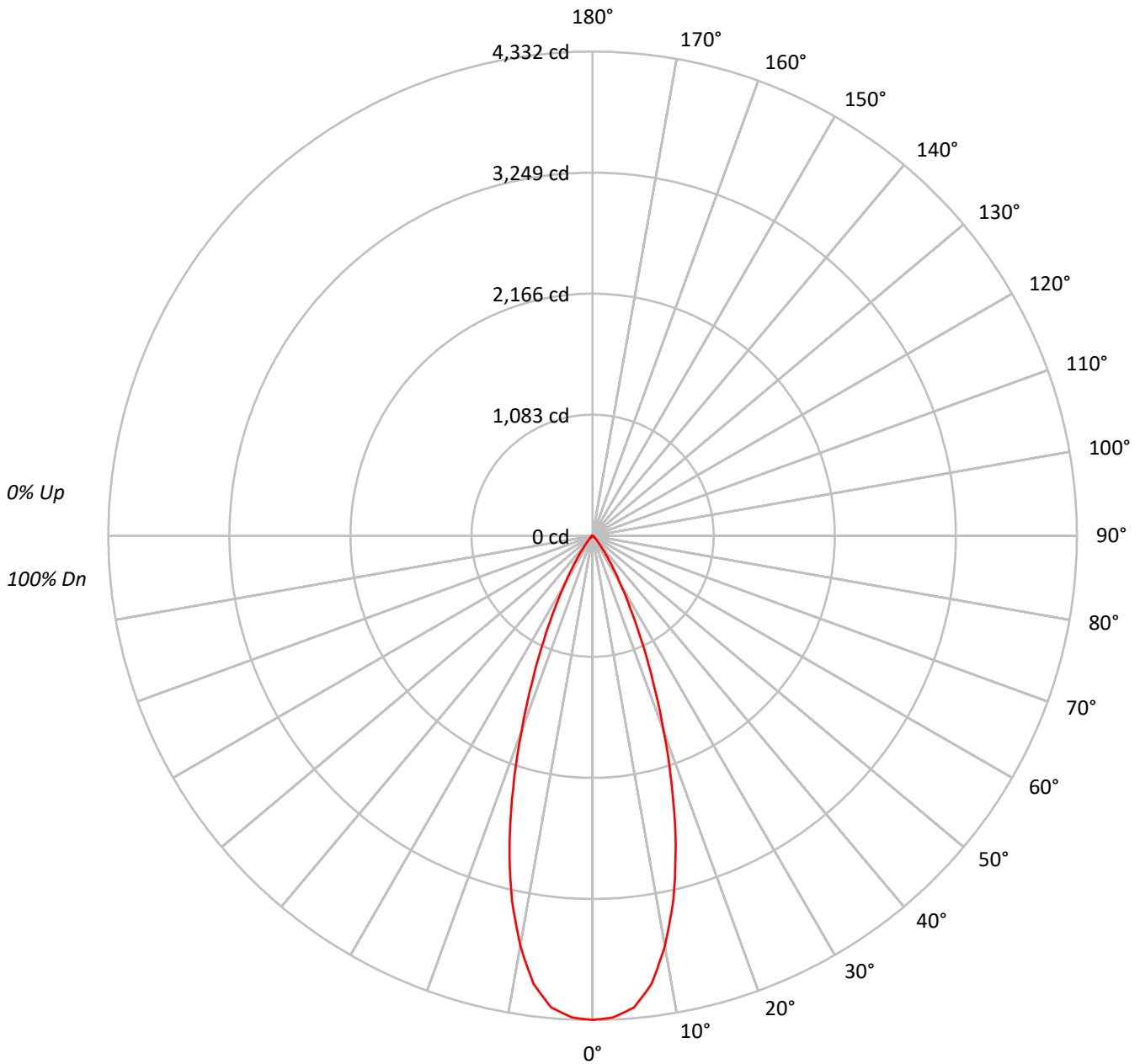
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			79
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1677828
5°	1647260
10°	1464336
15°	1151661
20°	766330
25°	439954
30°	222248
35°	104550
40°	42070
45°	20816
50°	11449
55°	8036
60°	7360
65°	4399
70°	5436
75°	3592
80°	5354
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	20.9
10°-20°	777.9	42.0
20°-30°	484.0	26.1
30°-40°	148.8	8.0
40°-50°	32.7	1.8
50°-60°	11.6	0.6
60°-70°	5.9	0.3
70°-80°	3.5	0.2
80°-90°	1.0	0.1
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°	1649.9	89.0
0°-40°	1798.7	97.1
0°-60°	1843.0	99.4
0°-90°	1853.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4332	
5°	4236	388
15°	2872	778
25°	1029	484
35°	221	149
45°	38	33
55°	12	12
65°	5	6
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4331.6
2.5°	4312.5
5°	4236.5
7.5°	4043.9
10°	3723.0
12.5°	3337.8
15°	2871.9
17.5°	2363.1
20°	1859.1
22.5°	1409.8
25°	1029.4
27.5°	725.1
30°	496.9
32.5°	335.2
35°	221.1
37.5°	133.1
40°	83.2
42.5°	57.1
45°	38.0
47.5°	26.2
50°	19.0
52.5°	16.6
55°	11.9
57.5°	9.5
60°	9.5
62.5°	7.1
65°	4.8
67.5°	4.8
70°	4.8
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)