

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: P224926

Luminaire Tested: **LD2B20D010 EU2B20FL409024 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409024 2LBD*H
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1330.0 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

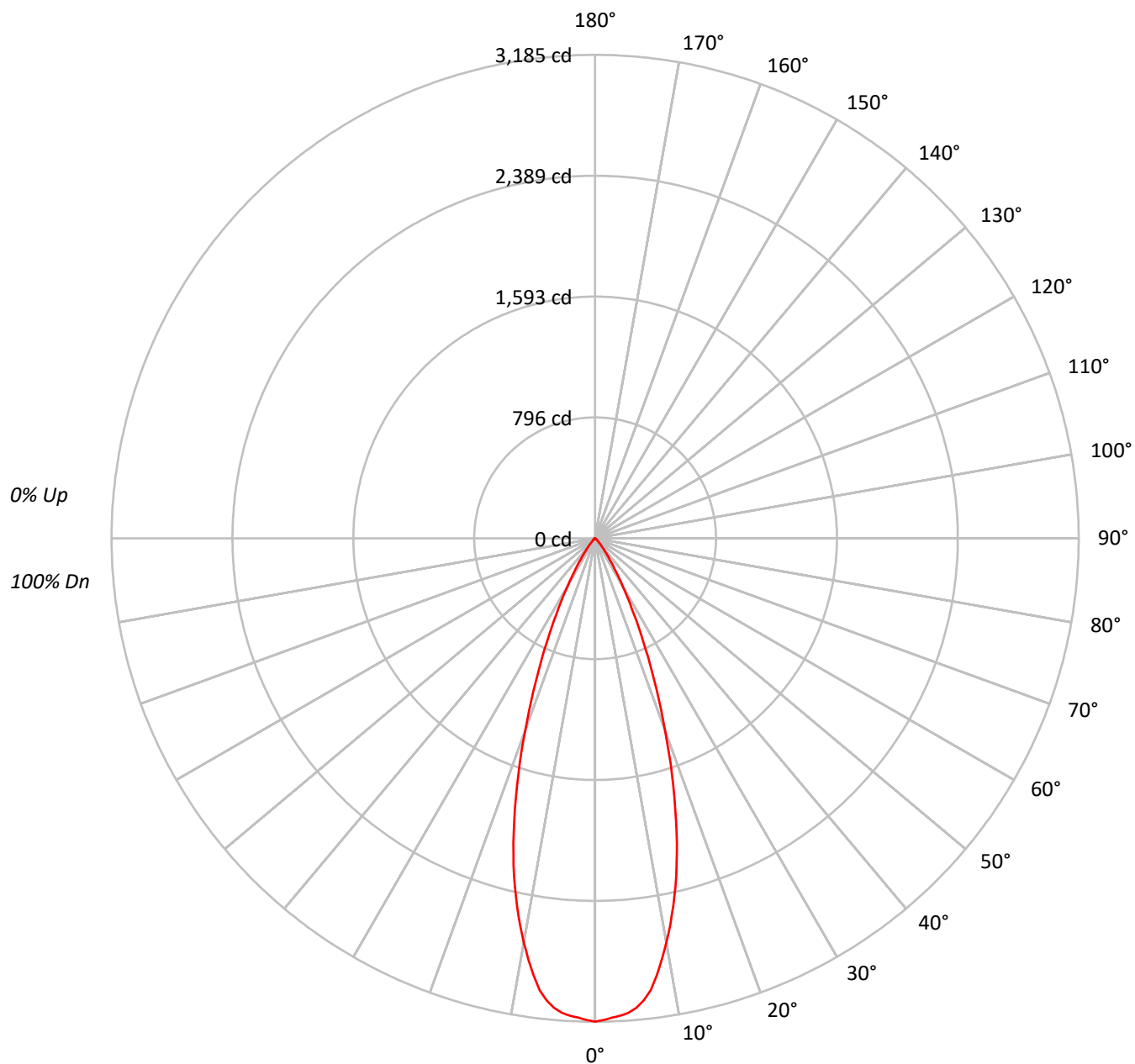
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	110	106	103	100		108	104	101	99		101	99	97			98	96	94			91
3	106	100	96	93		104	99	95	92		97	94	91			94	92	90			87
4	102	96	91	88		100	94	90	87		92	89	86			91	88	85			83
5	98	91	86	83		96	90	86	82		89	85	82			87	84	81			79
6	94	87	82	79		93	86	82	78		85	81	78			84	80	77			76
7	91	83	78	75		90	83	78	75		82	77	74			80	77	74			73
8	88	80	75	72		87	79	75	72		78	74	71			77	74	71			70
9	85	77	72	69		84	76	72	69		75	71	68			75	71	68			67
10	82	74	69	66		81	73	69	66		73	69	66			72	68	66			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1233620
5°	1207809
10°	1063738
15°	834542
20°	554210
25°	318148
30°	159541
35°	73672
40°	29934
45°	13421
50°	6990
55°	4322
60°	2014
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	21.3
10°-20°	563.3	42.4
20°-30°	350.0	26.3
30°-40°	105.6	7.9
40°-50°	21.6	1.6
50°-60°	5.6	0.4
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°	1197.0	90.0
0°-40°	1302.6	97.9
0°-60°	1329.7	100.0
0°-90°	1330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3185	
5°	3106	284
15°	2081	563
25°	744	350
35°	156	106
45°	24	22
55°	6	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3184.8
1°	3174.5
2°	3160.4
3°	3150.0
4°	3134.6
5°	3106.3
6°	3061.2
7°	2999.4
8°	2910.5
9°	2810.1
10°	2704.5
11°	2592.4
12°	2475.2
13°	2352.9
14°	2218.9
15°	2081.1
17.5°	1711.5
20°	1344.5
22.5°	1020.0
25°	744.4
27.5°	525.4
30°	356.7
32.5°	234.4
35°	155.8
37.5°	96.6
40°	59.2
42.5°	38.6
45°	24.5
47.5°	15.5
50°	11.6
52.5°	7.7
55°	6.4
57.5°	3.9
60°	2.6
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)