

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: P224954

Luminaire Tested: **LD2B20D010 EU2B20FL408035 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224954
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 EU2B20FL408035 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: 1875.1 lumens
Efficiency: N/A
Efficacy: 89.7 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

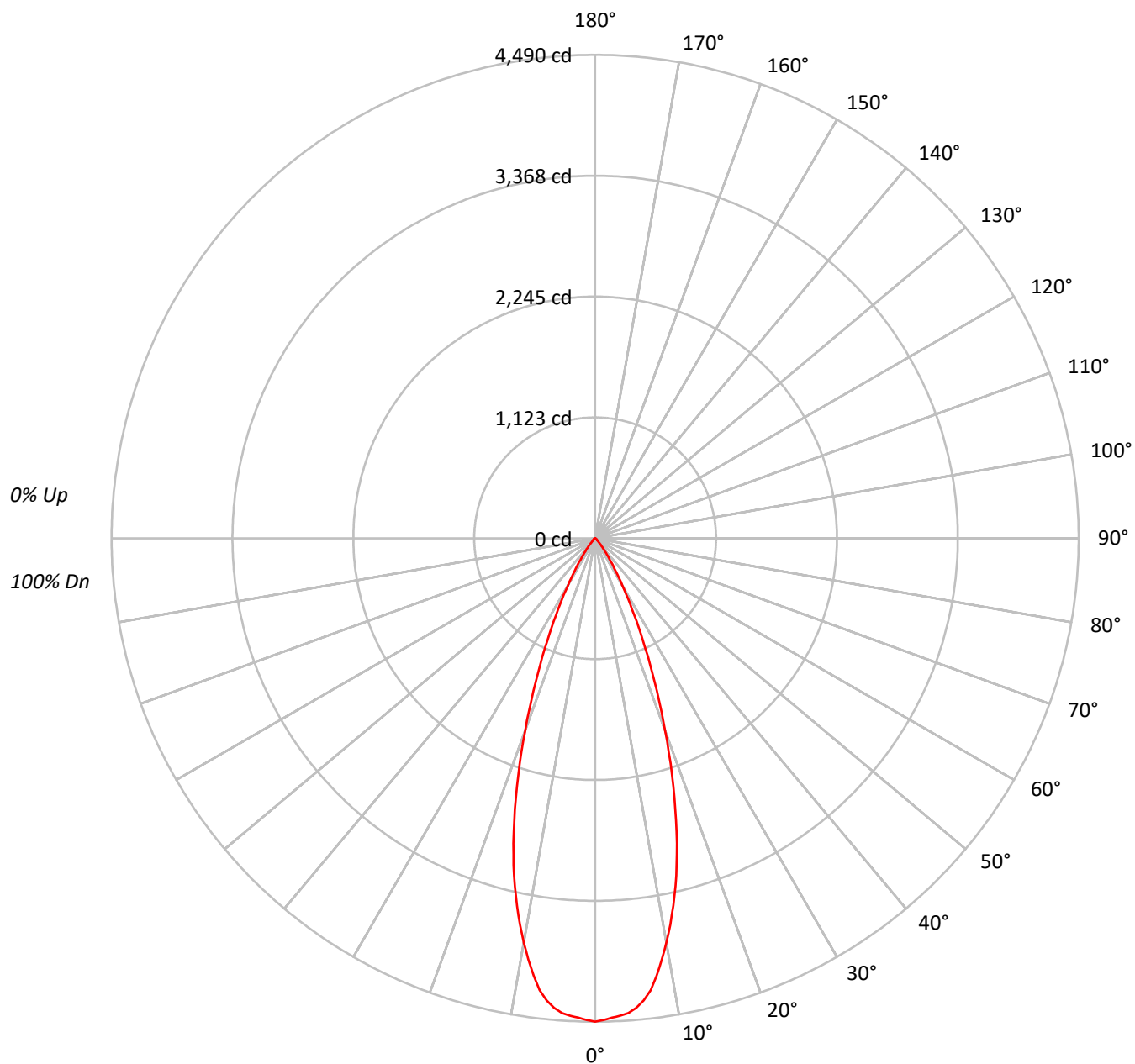
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			99
2	110	106	103	100		108	104	101	99		101	99	97			98	96	94			96
3	106	100	96	93		104	99	95	92		97	94	91			94	92	90			92
4	102	96	91	88		100	94	90	87		92	89	86			91	88	85			89
5	98	91	86	83		96	90	86	82		89	85	82			87	84	81			86
6	94	87	82	79		93	86	82	78		85	81	78			84	80	77			82
7	91	83	78	75		90	83	78	75		82	77	74			80	77	74			79
8	88	80	75	72		87	79	75	72		78	74	71			77	74	71			77
9	85	77	72	69		84	76	72	69		75	71	68			75	71	68			74
10	82	74	69	66		81	73	69	66		73	69	66			72	68	66			71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1739222
5°	1702823
10°	1499695
15°	1176604
20°	781335
25°	448502
30°	224931
35°	103888
40°	42221
45°	18899
50°	9822
55°	6145
60°	2789
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	21.3
10°-20°	794.1	42.4
20°-30°	493.4	26.3
30°-40°	148.8	7.9
40°-50°	30.4	1.6
50°-60°	7.8	0.4
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°	1687.6	90.0
0°-40°	1836.4	97.9
0°-60°	1874.6	100.0
0°-90°	1875.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4490	
5°	4379	400
15°	2934	794
25°	1049	493
35°	220	149
45°	34	30
55°	9	8
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4490.1
1°	4475.6
2°	4455.6
3°	4441.1
4°	4419.3
5°	4379.4
6°	4315.8
7°	4228.7
8°	4103.4
9°	3961.8
10°	3812.9
11°	3654.9
12°	3489.7
13°	3317.2
14°	3128.4
15°	2934.1
17.5°	2413.0
20°	1895.5
22.5°	1438.0
25°	1049.4
27.5°	740.8
30°	502.9
32.5°	330.4
35°	219.7
37.5°	136.2
40°	83.5
42.5°	54.5
45°	34.5
47.5°	21.8
50°	16.3
52.5°	10.9
55°	9.1
57.5°	5.4
60°	3.6
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)