

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: P274296

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBS0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35292)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBS0LI
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1368.7 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

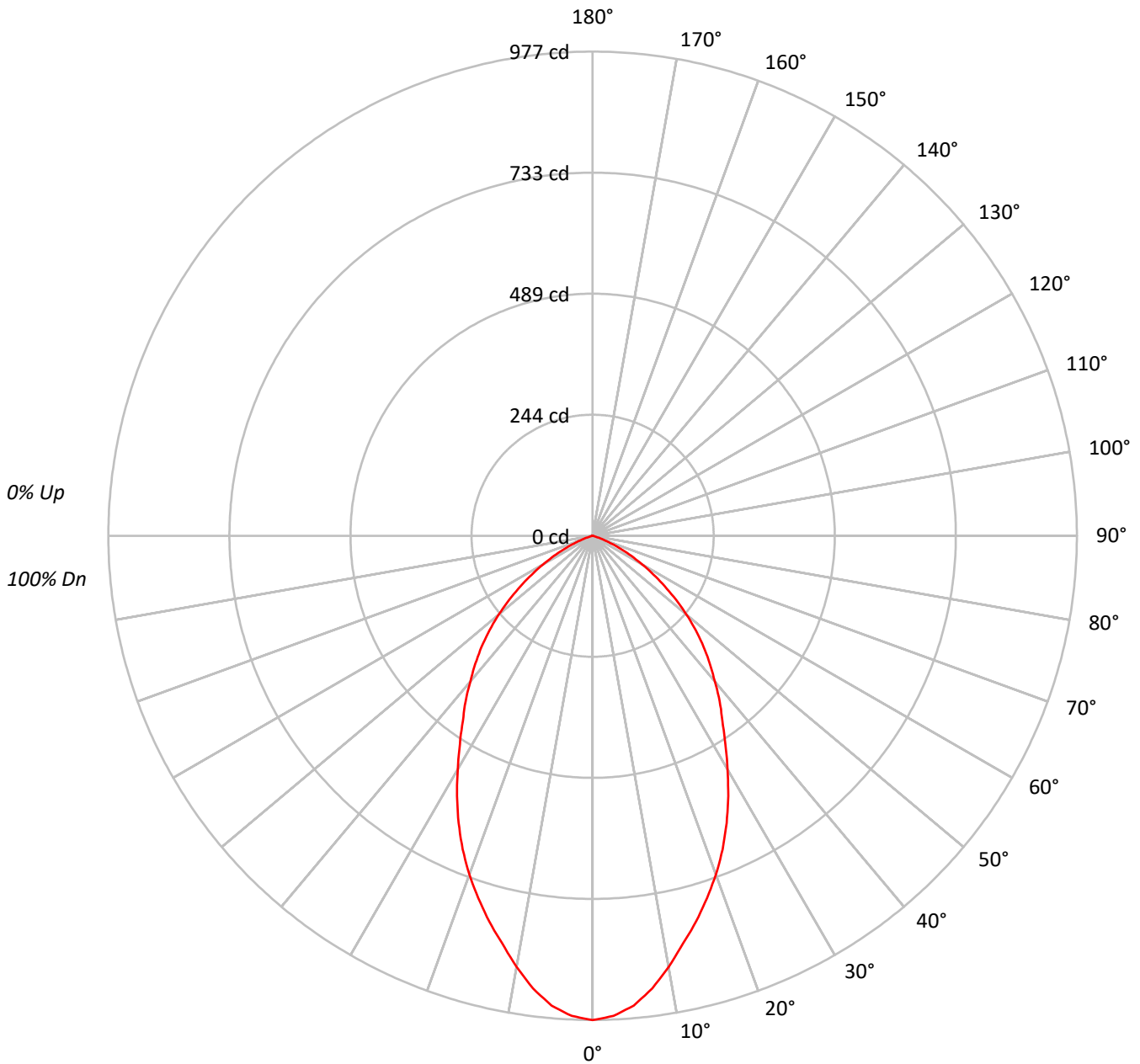
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106781
5°	104359
10°	98010
15°	91182
20°	84565
25°	77083
30°	68633
35°	60836
40°	54670
45°	48936
50°	41985
55°	33774
60°	25174
65°	16055
70°	7731
75°	1266
80°	944
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	6.5
10°-20°	226.0	16.5
20°-30°	292.9	21.4
30°-40°	286.9	21.0
40°-50°	243.2	17.8
50°-60°	159.5	11.7
60°-70°	64.1	4.7
70°-80°	7.3	0.5
80°-90°	0.2	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°	607.5	44.4
0°-40°	894.4	65.3
0°-60°	1297.1	94.8
0°-90°	1368.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1368.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	977	
5°	952	89
15°	806	226
25°	639	293
35°	456	287
45°	317	243
55°	177	159
65°	62	64
75°	3	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	977.3
2.5°	969.7
5°	951.5
7.5°	921.2
10°	883.4
12.5°	842.4
15°	806.1
17.5°	766.7
20°	727.3
22.5°	684.9
25°	639.4
27.5°	592.4
30°	544.0
32.5°	498.5
35°	456.1
37.5°	421.2
40°	383.3
42.5°	350.0
45°	316.7
47.5°	281.8
50°	247.0
52.5°	212.1
55°	177.3
57.5°	145.5
60°	115.2
62.5°	87.9
65°	62.1
67.5°	40.9
70°	24.2
72.5°	10.6
75°	3.0
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)