

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: P274307

Luminaire Tested: **LD4B10DE010W2N2765 EU4B1020W2N902765 4LBCS0MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35142)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBCS0MW
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1088.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

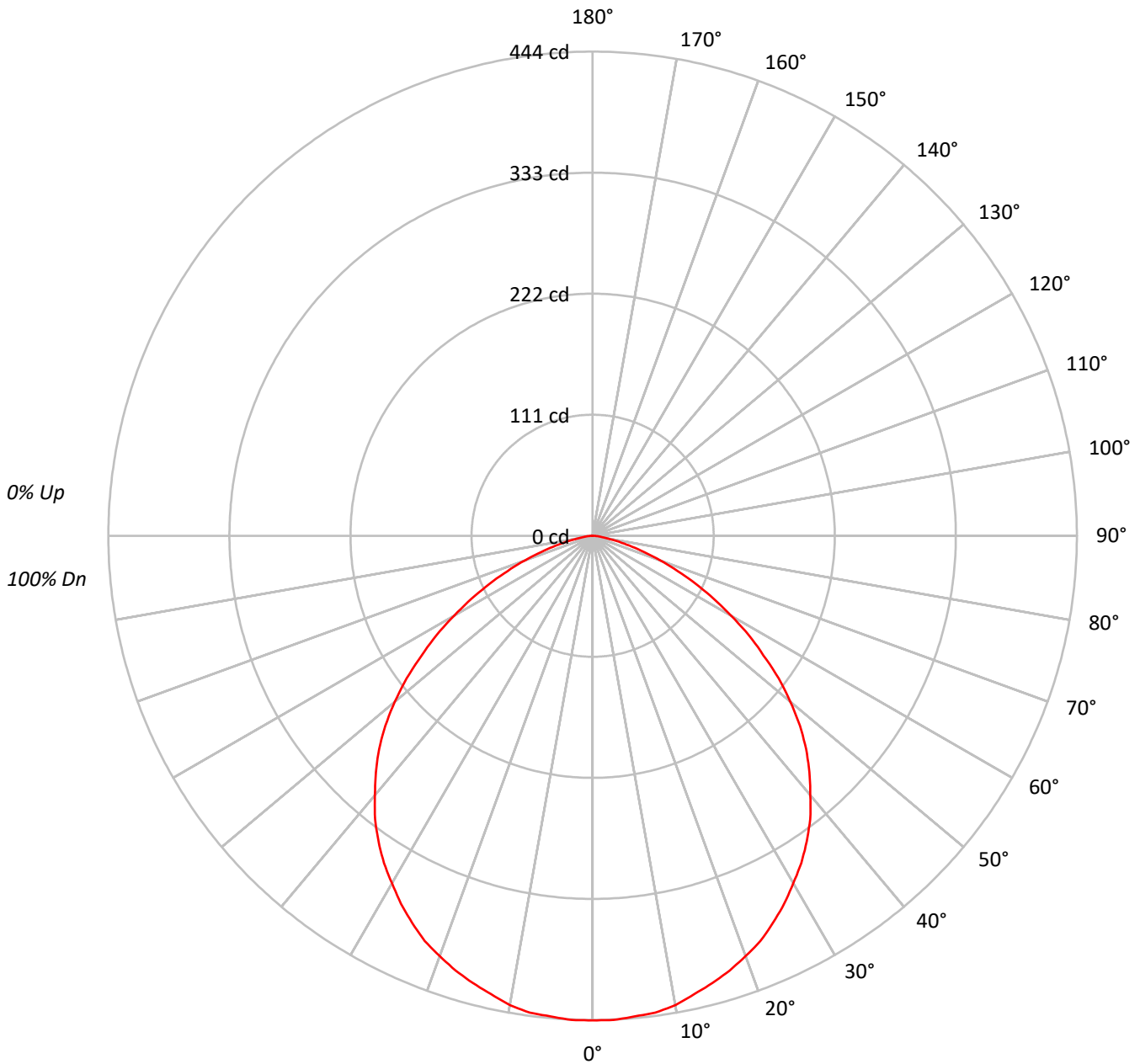
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43310
5°	43280
10°	43256
15°	42840
20°	42533
25°	42110
30°	41402
35°	40713
40°	39503
45°	38164
50°	35888
55°	32487
60°	28536
65°	24029
70°	18778
75°	13142
80°	7408
85°	5144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	3.9
10°-20°	119.9	11.0
20°-30°	180.3	16.6
30°-40°	213.7	19.6
40°-50°	212.7	19.5
50°-60°	171.4	15.8
60°-70°	103.7	9.5
70°-80°	38.5	3.5
80°-90°	5.7	0.5
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°	342.3	31.5
0°-40°	556.0	51.1
0°-60°	940.1	86.4
0°-90°	1088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	444	
5°	442	42
15°	425	120
25°	392	180
35°	342	214
45°	277	213
55°	191	171
65°	104	104
75°	35	38
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	444.4
2.5°	444.4
5°	442.4
7.5°	441.1
10°	437.1
12.5°	430.5
15°	424.6
17.5°	418.0
20°	410.1
22.5°	402.2
25°	391.6
27.5°	380.4
30°	367.9
32.5°	356.0
35°	342.2
37.5°	327.7
40°	310.5
42.5°	294.1
45°	276.9
47.5°	257.8
50°	236.7
52.5°	214.9
55°	191.2
57.5°	170.1
60°	146.4
62.5°	125.3
65°	104.2
67.5°	84.4
70°	65.9
72.5°	49.4
75°	34.9
77.5°	22.4
80°	13.2
82.5°	7.9
85°	4.6
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)