

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: P274314

Luminaire Tested: **LD4B15DE010W2N2765 EU4B1020W2N902765 4LBCS0MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35143)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15DE010W2N2765 EU4B1020W2N902765 4LBCS0MB
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, CAST SHALLOW WITH MATTE BLACK FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1189.0 lumens
Efficiency: N/A
Efficacy: 54.0 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

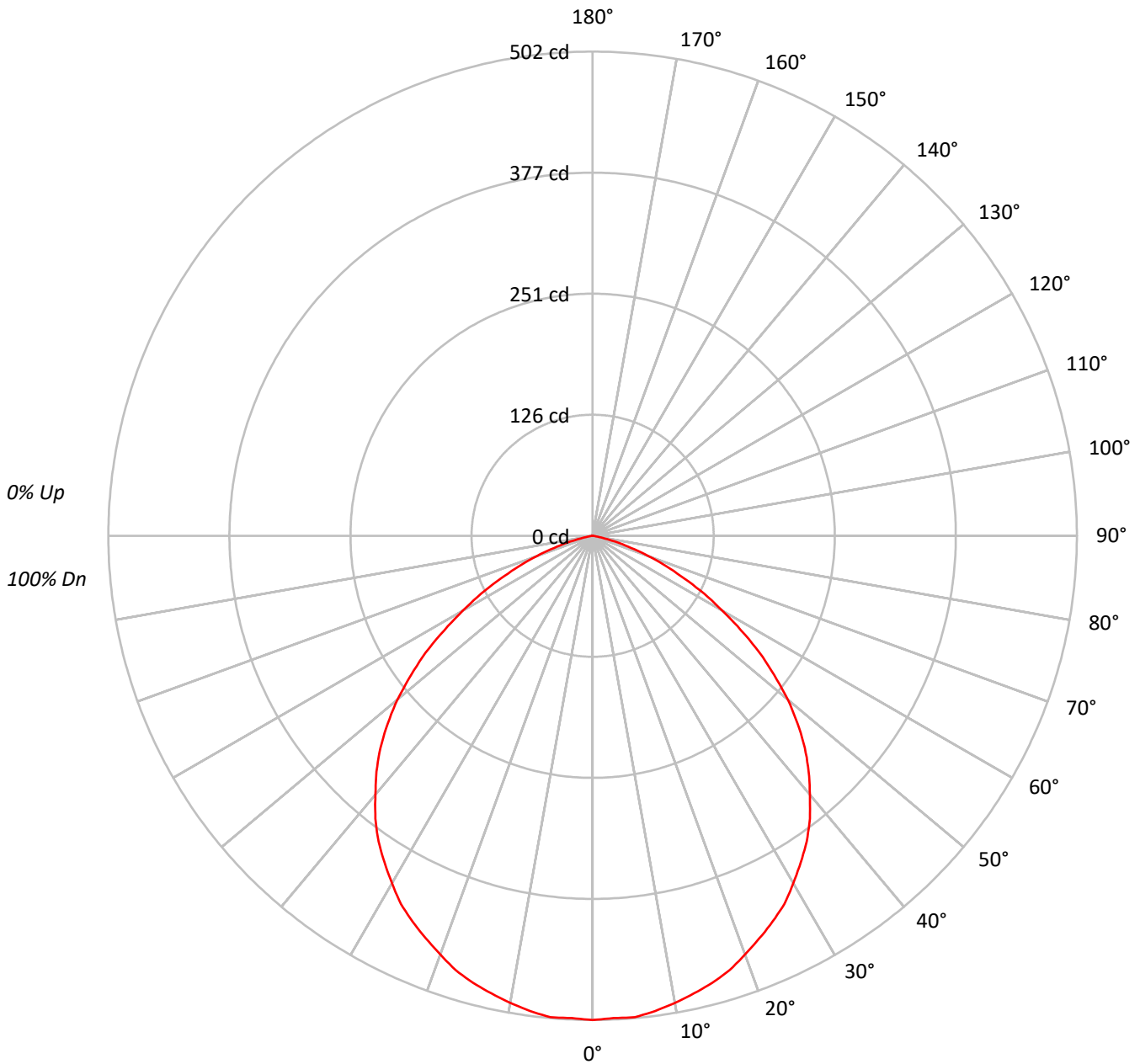
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48934
5°	49033
10°	48669
15°	48420
20°	47915
25°	47476
30°	46815
35°	46043
40°	44566
45°	42878
50°	40057
55°	35920
60°	30231
65°	24167
70°	17496
75°	9640
80°	1908
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	4.0
10°-20°	135.3	11.4
20°-30°	203.4	17.1
30°-40°	241.3	20.3
40°-50°	238.8	20.1
50°-60°	187.6	15.8
60°-70°	105.2	8.8
70°-80°	29.6	2.5
80°-90°	0.5	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°	386.2	32.5
0°-40°	627.5	52.8
0°-60°	1053.8	88.6
0°-90°	1189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	502	
5°	501	47
15°	480	135
25°	442	203
35°	387	241
45°	311	239
55°	211	188
65°	105	105
75°	26	30
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	502.1
2.5°	500.4
5°	501.2
7.5°	496.9
10°	491.8
12.5°	485.9
15°	479.9
17.5°	472.2
20°	462.0
22.5°	451.8
25°	441.5
27.5°	430.5
30°	416.0
32.5°	401.5
35°	387.0
37.5°	369.9
40°	350.3
42.5°	331.6
45°	311.1
47.5°	288.1
50°	264.2
52.5°	237.0
55°	211.4
57.5°	182.4
60°	155.1
62.5°	130.4
65°	104.8
67.5°	82.7
70°	61.4
72.5°	41.8
75°	25.6
77.5°	12.8
80°	3.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)