

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: P274301

Luminaire Tested: **LD4B10DE010W2N2765 EU4B1020W2N902765 4LBS0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35136)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBS0H
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1024.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

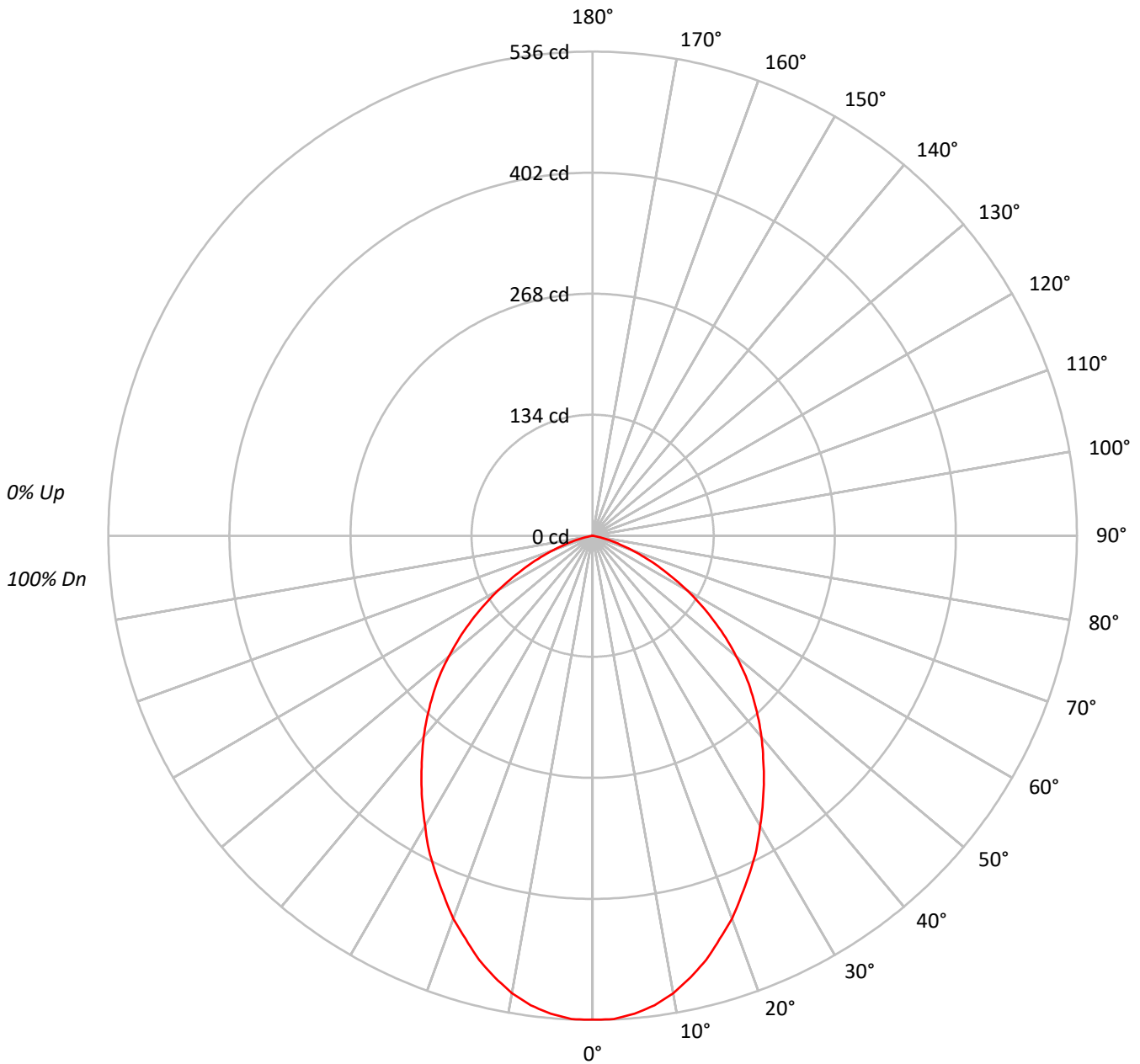
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77																			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52199
5°	51948
10°	50876
15°	49025
20°	46774
25°	44250
30°	41739
35°	39309
40°	37009
45°	34498
50°	31461
55°	27781
60°	23507
65°	18471
70°	13165
75°	7230
80°	1291
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	4.9
10°-20°	136.3	13.3
20°-30°	189.4	18.5
30°-40°	206.6	20.2
40°-50°	192.8	18.8
50°-60°	146.3	14.3
60°-70°	80.1	7.8
70°-80°	22.1	2.2
80°-90°	0.3	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°	375.9	36.7
0°-40°	582.5	56.9
0°-60°	921.6	90.0
0°-90°	1024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	531	50
15°	486	136
25°	412	189
35°	330	207
45°	250	193
55°	164	146
65°	80	80
75°	19	22
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	535.6
2.5°	535.6
5°	531.0
7.5°	524.3
10°	514.1
12.5°	500.6
15°	485.9
17.5°	467.9
20°	451.0
22.5°	430.7
25°	411.5
27.5°	392.4
30°	370.9
32.5°	350.6
35°	330.4
37.5°	310.1
40°	290.9
42.5°	270.6
45°	250.3
47.5°	230.0
50°	207.5
52.5°	186.0
55°	163.5
57.5°	142.1
60°	120.6
62.5°	99.2
65°	80.1
67.5°	62.0
70°	46.2
72.5°	31.6
75°	19.2
77.5°	9.0
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)