

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: P274300

Luminaire Tested: **LD4B20DE010W2N2050 EU4B1020W2N902050 4LBS0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274300
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: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBS0LI
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, SHALLOW WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1492.9 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

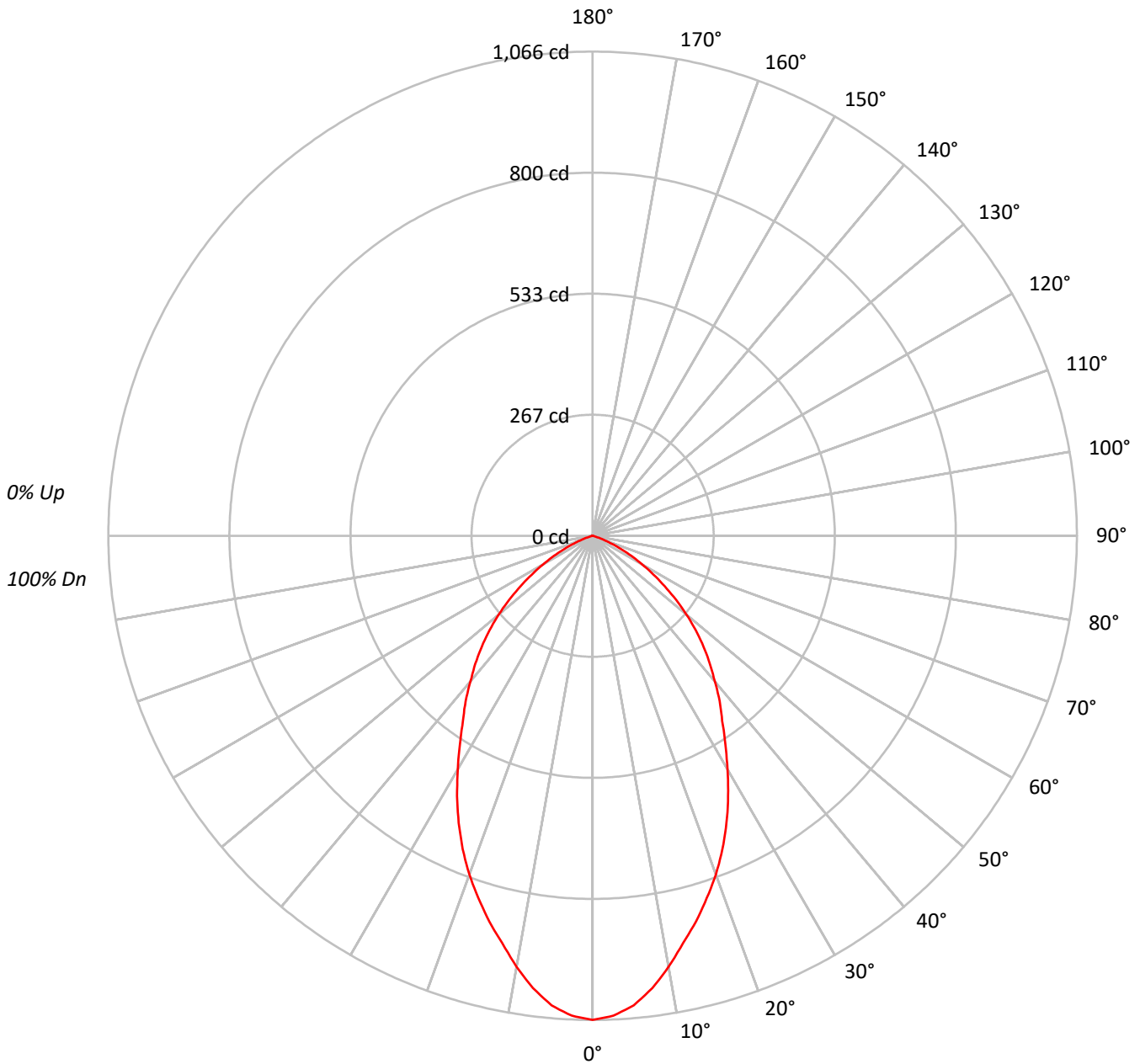
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274300

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBSOLI

Luminous Intensity Polar Plot





TEST NUMBER: P274300

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBSOLI

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°	116461
5°	113824
10°	106897
15°	99451
20°	92239
25°	84076
30°	74853
35°	66345
40°	59634
45°	53371
50°	45792
55°	36841
60°	27446
65°	17529
70°	8434
75°	1393
80°	1070
85°	0



TEST NUMBER: P274300

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBSOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	6.5
10°-20°	246.5	16.5
20°-30°	319.4	21.4
30°-40°	313.0	21.0
40°-50°	265.3	17.8
50°-60°	173.9	11.7
60°-70°	69.9	4.7
70°-80°	8.0	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°	662.6	44.4
0°-40°	975.5	65.3
0°-60°	1414.8	94.8
0°-90°	1492.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1492.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1066	
5°	1038	97
15°	879	247
25°	697	319
35°	497	313
45°	345	265
55°	193	174
65°	68	70
75°	3	8
85°	0	0
90°	0	



TEST NUMBER: P274300

CATALOG NUMBER: LD4B20DE010W2N2050 EU4B1020W2N902050 4LBSOLI

CANDELA DISTRIBUTION (FULL):

0°	
0°	1065.9
2.5°	1057.7
5°	1037.8
7.5°	1004.8
10°	963.5
12.5°	918.9
15°	879.2
17.5°	836.2
20°	793.3
22.5°	747.0
25°	697.4
27.5°	646.2
30°	593.3
32.5°	543.7
35°	497.4
37.5°	459.4
40°	418.1
42.5°	381.8
45°	345.4
47.5°	307.4
50°	269.4
52.5°	231.4
55°	193.4
57.5°	158.7
60°	125.6
62.5°	95.9
65°	67.8
67.5°	44.6
70°	26.4
72.5°	11.6
75°	3.3
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)