

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: P274279

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35289)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBW0LI
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1680.9 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

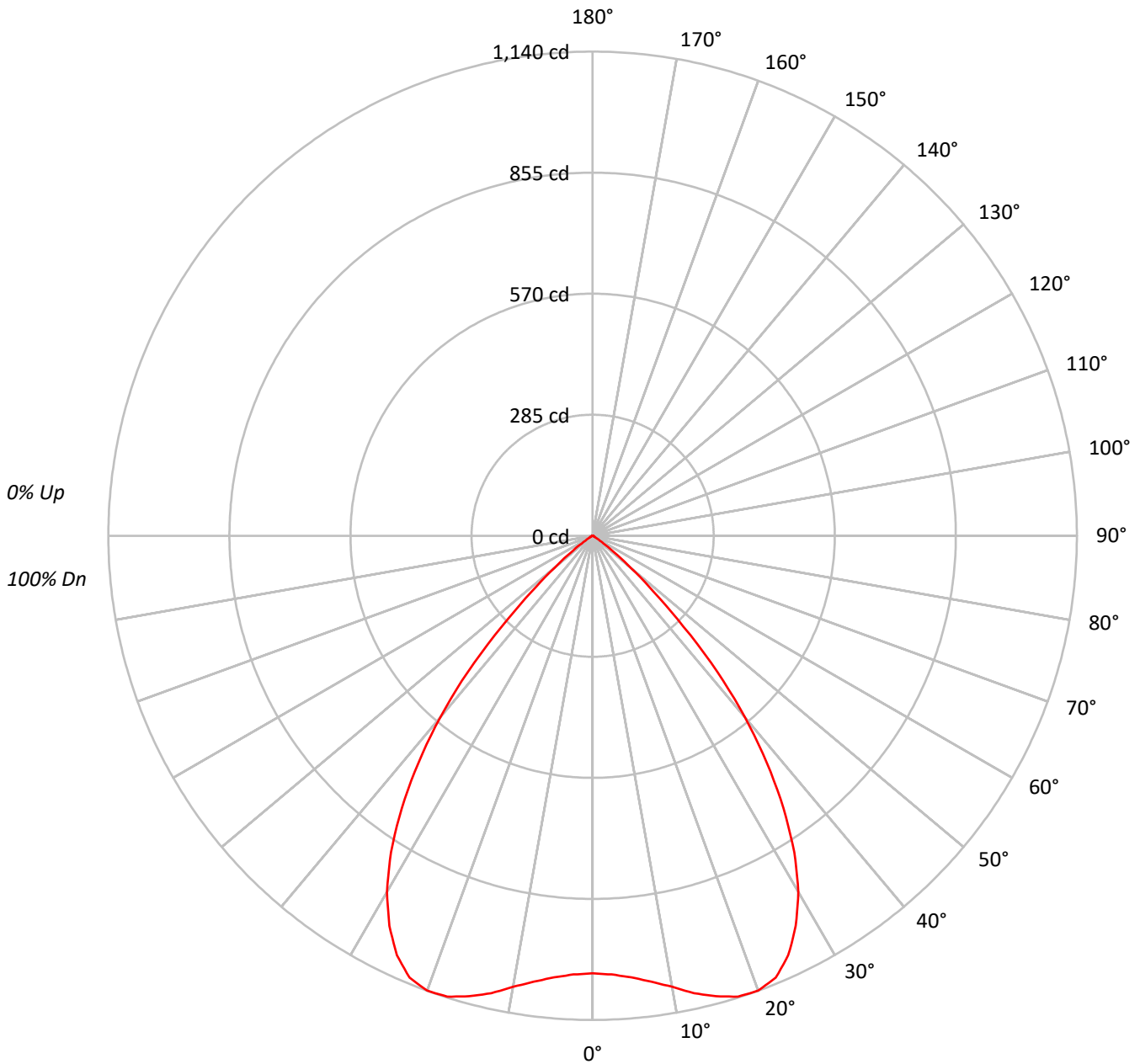
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92		
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84		
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77		
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54		
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49		
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45		
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112539
5°	114438
10°	119611
15°	126960
20°	132516
25°	131358
30°	122164
35°	104505
40°	79630
45°	46695
50°	19956
55°	5867
60°	1683
65°	1008
70°	607
75°	802
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	6.0
10°-20°	317.9	18.9
20°-30°	495.8	29.5
30°-40°	482.5	28.7
40°-50°	241.0	14.3
50°-60°	37.3	2.2
60°-70°	4.5	0.3
70°-80°	1.2	0.1
80°-90°	0.0	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°	914.4	54.4
0°-40°	1396.9	83.1
0°-60°	1675.1	99.7
0°-90°	1680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1030	
5°	1043	101
15°	1122	318
25°	1090	496
35°	784	482
45°	302	241
55°	31	37
65°	4	5
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1030.0
2.5°	1033.8
5°	1043.4
7.5°	1058.8
10°	1078.1
12.5°	1103.1
15°	1122.4
17.5°	1137.8
20°	1139.7
22.5°	1126.2
25°	1089.6
27.5°	1035.7
30°	968.3
32.5°	883.6
35°	783.5
37.5°	673.8
40°	558.3
42.5°	435.1
45°	302.2
47.5°	194.4
50°	117.4
52.5°	63.5
55°	30.8
57.5°	13.5
60°	7.7
62.5°	5.8
65°	3.9
67.5°	3.9
70°	1.9
72.5°	1.9
75°	1.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)