

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: P295262

Luminaire Tested: **LD4B30DE010 EU4B30509030D2W 4LBN0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P295262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35291)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B30DE010 EU4B30509030D2W 4LBN0LI
Description: PORTFOLIO 4" D2W RN DOWNLIGHT, NARROW DISTRIBUTION WITH SPECULAR FINISH
Light Source: D2W 1800K-3000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1775.0 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

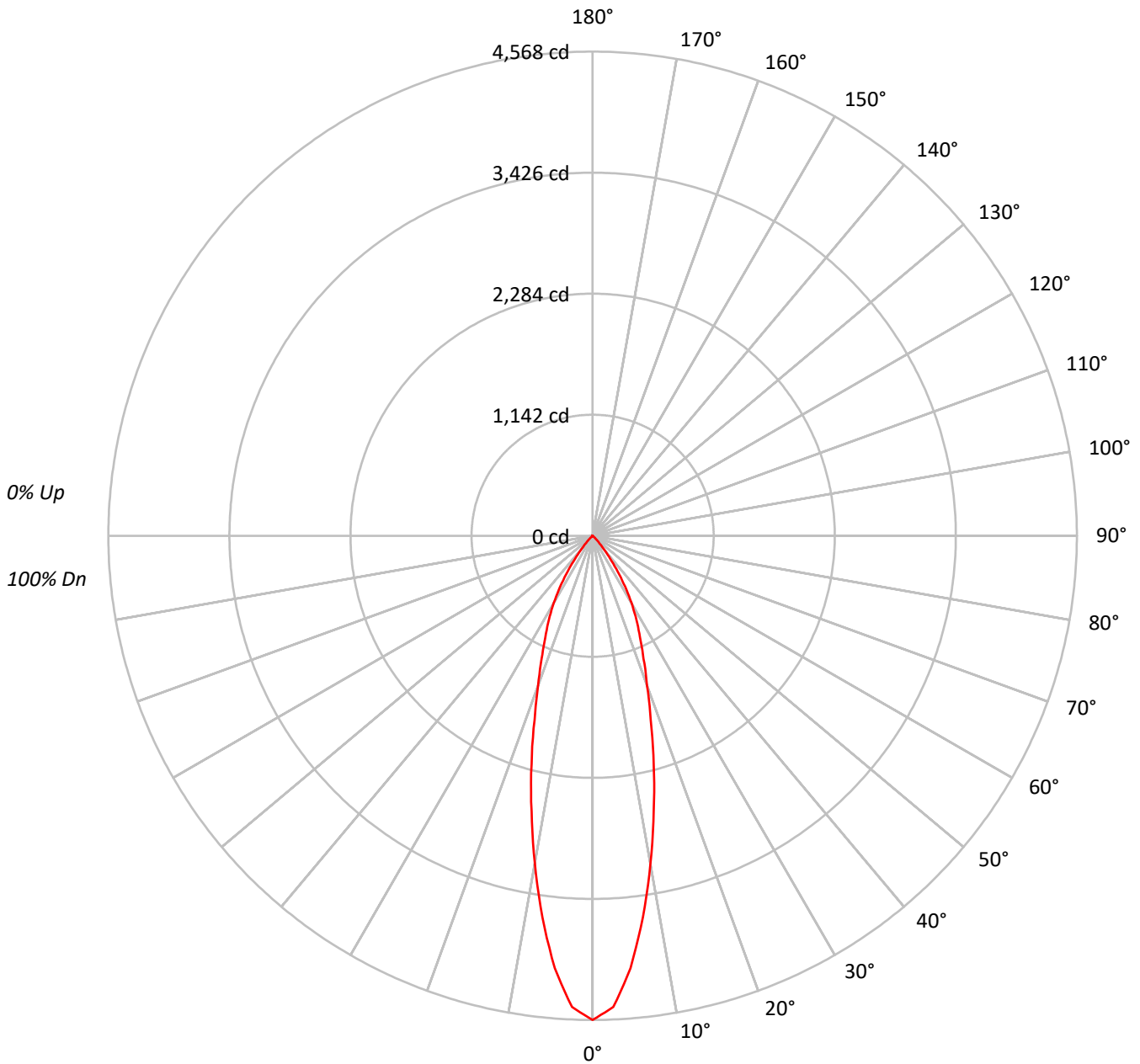
Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90																			
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81																			
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77																			
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73																			
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69																			
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66																			
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63																			
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	499103
5°	449132
10°	348183
15°	252009
20°	174502
25°	127211
30°	92427
35°	54700
40°	23006
45°	7185
50°	935
55°	514
60°	590
65°	698
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	20.3
10°-20°	616.3	34.7
20°-30°	489.8	27.6
30°-40°	259.3	14.6
40°-50°	44.7	2.5
50°-60°	3.3	0.2
60°-70°	1.7	0.1
70°-80°	0.0	0.0
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°	1466.1	82.6
0°-40°	1725.4	97.2
0°-60°	1773.4	99.9
0°-90°	1775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1775.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4568	
5°	4095	360
15°	2228	616
25°	1055	490
35°	410	259
45°	46	45
55°	3	3
65°	3	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4568.0
2.5°	4450.4
5°	4095.0
7.5°	3630.3
10°	3138.3
12.5°	2662.6
15°	2227.9
17.5°	1823.4
20°	1500.8
22.5°	1254.8
25°	1055.2
27.5°	893.9
30°	732.6
32.5°	568.6
35°	410.1
37.5°	270.6
40°	161.3
42.5°	92.9
45°	46.5
47.5°	16.4
50°	5.5
52.5°	5.5
55°	2.7
57.5°	2.7
60°	2.7
62.5°	2.7
65°	2.7
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)