

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: P205628

Luminaire Tested: **LD4B40D010 EU4B30508040 4LBSWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B40D010 EU4B30508040 4LBSWMH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM  
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W  
DL3-44.71W DLE-39.33W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4215.9 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

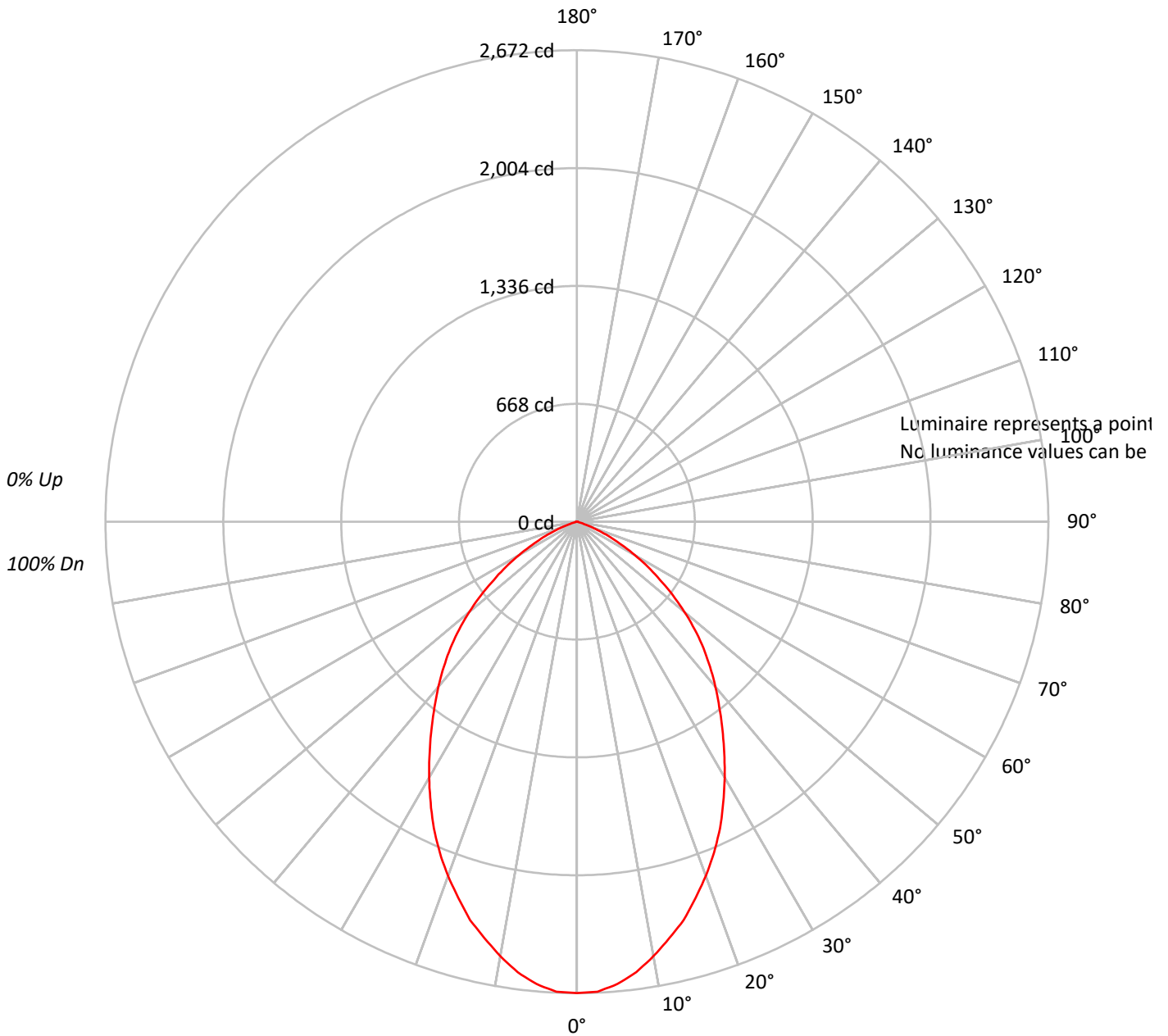
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	98	96	94	95	93	92	90																																				
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																																				
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																																				
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																																				
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56																																				
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50																																				
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																																				
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41																																				
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38																																				
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35																																				

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.0	5.9
10°-20°	654.4	15.5
20°-30°	878.9	20.8
30°-40°	899.7	21.3
40°-50°	778.7	18.5
50°-60°	518.0	12.3
60°-70°	212.8	5.0
70°-80°	25.3	0.6
80°-90°	1.1	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°	1780.3	42.2
0°-40°	2680.0	63.6
0°-60°	3976.7	94.3
0°-90°	4215.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4215.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2672	
5°	2630	247
15°	2338	654
25°	1918	879
35°	1437	900
45°	1014	779
55°	575	518
65°	210	213
75°	11	25
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2672.0
2.5°	2666.4
5°	2630.5
7.5°	2575.3
10°	2500.7
12.5°	2417.8
15°	2337.6
17.5°	2235.4
20°	2135.9
22.5°	2030.9
25°	1917.6
27.5°	1796.1
30°	1674.5
32.5°	1552.9
35°	1436.8
37.5°	1326.3
40°	1221.3
42.5°	1116.3
45°	1014.1
47.5°	906.3
50°	795.8
52.5°	685.3
55°	574.7
57.5°	478.0
60°	378.6
62.5°	287.4
65°	210.0
67.5°	138.2
70°	80.1
72.5°	38.7
75°	11.1
77.5°	5.5
80°	2.8
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)