

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: P212491

Luminaire Tested: **LSR4B40D010BZ EC4B30509040 4LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212491  
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: LSR4B40D010BZ EC4B30509040 4LBMMW1  
Description: PORTFOLIO 4 INCH CYLINDER  
MEDIUM DISTRIBUTION WITH MATTE WHITE 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: 2775.8 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

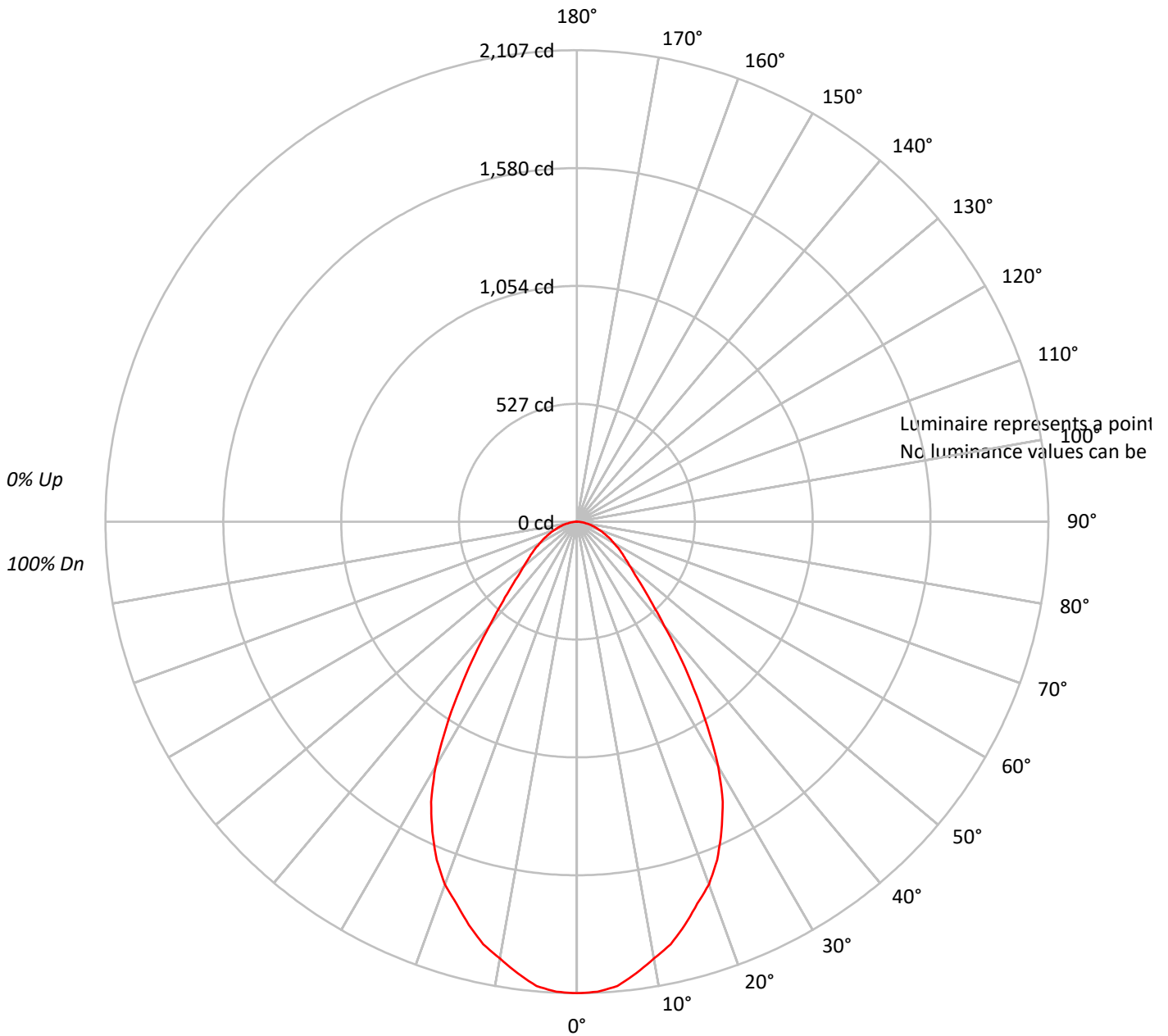
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53																			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49																			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																			
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.3	7.0
10°-20°	523.6	18.9
20°-30°	696.2	25.1
30°-40°	569.4	20.5
40°-50°	331.7	11.9
50°-60°	220.0	7.9
60°-70°	144.7	5.2
70°-80°	76.3	2.8
80°-90°	18.6	0.7
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°	1415.2	51.0
0°-40°	1984.6	71.5
0°-60°	2536.2	91.4
0°-90°	2775.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2107	
5°	2083	195
15°	1866	524
25°	1528	696
35°	909	569
45°	418	332
55°	245	220
65°	145	145
75°	72	76
85°	16	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2107.2
2.5°	2103.2
5°	2083.0
7.5°	2034.8
10°	1982.5
12.5°	1934.3
15°	1865.9
17.5°	1789.5
20°	1725.2
22.5°	1636.7
25°	1528.1
27.5°	1411.5
30°	1262.7
32.5°	1085.8
35°	908.8
37.5°	748.0
40°	607.2
42.5°	498.6
45°	418.2
47.5°	353.9
50°	309.6
52.5°	273.5
55°	245.3
57.5°	217.2
60°	189.0
62.5°	168.9
65°	144.8
67.5°	124.7
70°	104.6
72.5°	88.5
75°	72.4
77.5°	56.3
80°	40.2
82.5°	28.1
85°	16.1
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)