

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: P212404

Luminaire Tested: **LSR4B40D010BZ EC4B30508035 4LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212404  
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 EC4B30508035 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: 3278.2 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

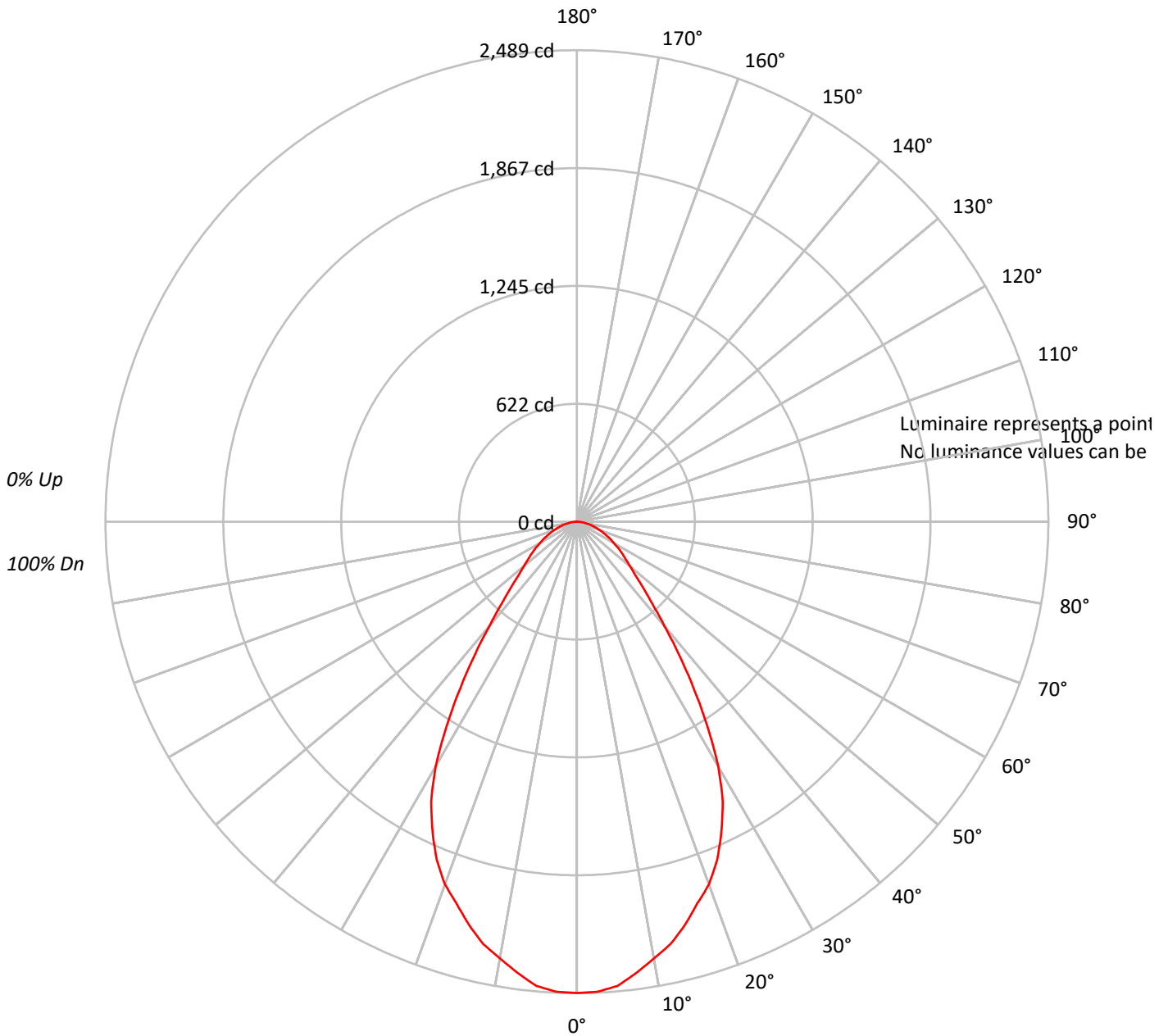
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	230.7	7.0
10°-20°	618.4	18.9
20°-30°	822.2	25.1
30°-40°	672.5	20.5
40°-50°	391.7	11.9
50°-60°	259.8	7.9
60°-70°	170.8	5.2
70°-80°	90.2	2.8
80°-90°	21.9	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°	1671.3	51.0
0°-40°	2343.8	71.5
0°-60°	2995.2	91.4
0°-90°	3278.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2489	
5°	2460	231
15°	2204	618
25°	1805	822
35°	1073	672
45°	494	392
55°	290	260
65°	171	171
75°	86	90
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2488.6
2.5°	2483.8
5°	2460.1
7.5°	2403.1
10°	2341.3
12.5°	2284.3
15°	2203.6
17.5°	2113.4
20°	2037.4
22.5°	1932.9
25°	1804.7
27.5°	1667.0
30°	1491.2
32.5°	1282.3
35°	1073.3
37.5°	883.3
40°	717.1
42.5°	588.9
45°	493.9
47.5°	417.9
50°	365.7
52.5°	322.9
55°	289.7
57.5°	256.5
60°	223.2
62.5°	199.5
65°	171.0
67.5°	147.2
70°	123.5
72.5°	104.5
75°	85.5
77.5°	66.5
80°	47.5
82.5°	33.2
85°	19.0
87.5°	4.7
90°	0.0



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— 0°-180°







(END OF REPORT)