

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: P212425

Luminaire Tested: **LSR4B40D010BZ EC4B30508035 4LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212425  
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 4LBWWH1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH WHEAT 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: 3634.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

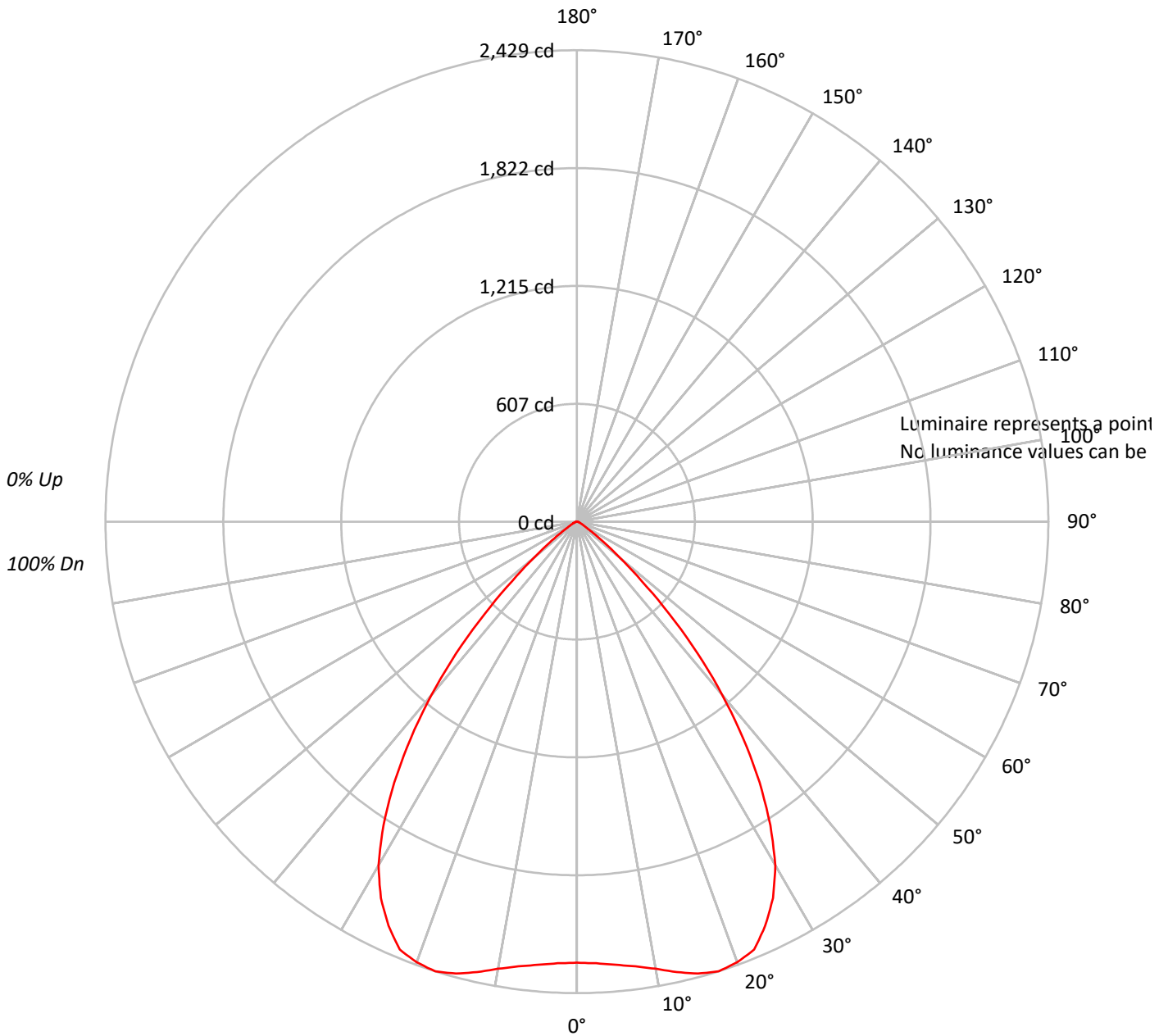
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				84															
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69															
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63				63															
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58				58															
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53				53															
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49				49															
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45				45															
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41															

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	6.1
10°-20°	681.1	18.7
20°-30°	1047.8	28.8
30°-40°	1010.9	27.8
40°-50°	527.1	14.5
50°-60°	111.0	3.1
60°-70°	25.8	0.7
70°-80°	10.0	0.3
80°-90°	0.7	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°	1949.1	53.6
0°-40°	2960.1	81.4
0°-60°	3598.1	99.0
0°-90°	3634.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2272	
5°	2292	220
15°	2410	681
25°	2296	1048
35°	1640	1011
45°	670	527
55°	100	111
65°	24	26
75°	10	10
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2272.5
2.5°	2277.2
5°	2291.5
7.5°	2310.5
10°	2339.0
12.5°	2377.1
15°	2410.3
17.5°	2429.4
20°	2415.1
22.5°	2386.6
25°	2296.2
27.5°	2186.9
30°	2044.3
32.5°	1854.1
35°	1640.2
37.5°	1407.2
40°	1164.8
42.5°	922.3
45°	670.3
47.5°	451.6
50°	290.0
52.5°	175.9
55°	99.8
57.5°	61.8
60°	42.8
62.5°	33.3
65°	23.8
67.5°	19.0
70°	14.3
72.5°	14.3
75°	9.5
77.5°	4.8
80°	4.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)