

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: P212479

Luminaire Tested: **LSR4B40D010BZ EC4B30508040 4LBWGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212479  
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 EC4B30508040 4LBWGPH1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTIONWITH GRAPHITE 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: 2771.0 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

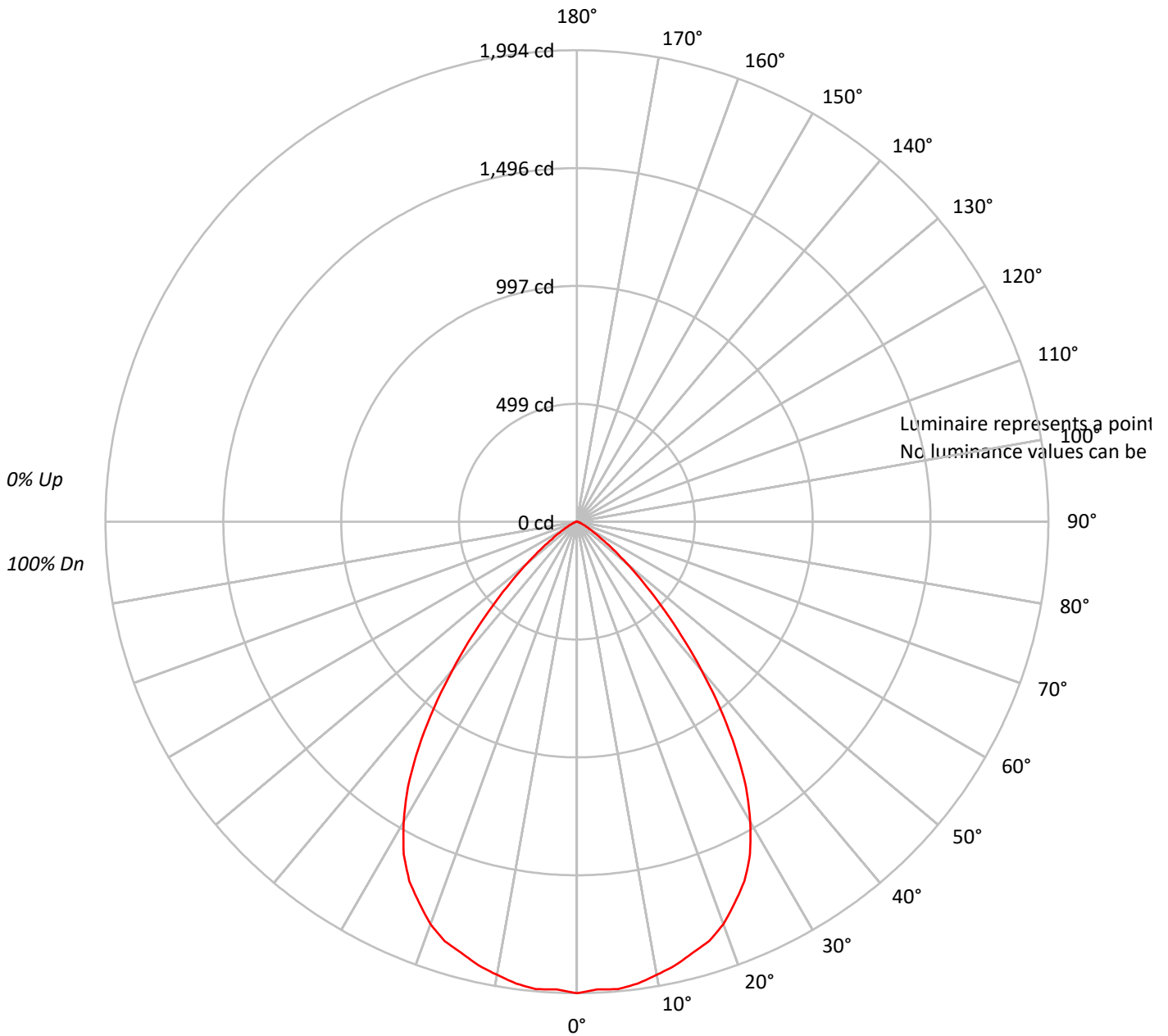
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	99	100	98	96	96	95	94	92						92													
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83						83													
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76						76													
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69						69													
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63						63													
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57						57													
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53						53													
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48						48													
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	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°	188.1	6.8
10°-20°	533.1	19.2
20°-30°	764.6	27.6
30°-40°	719.9	26.0
40°-50°	397.6	14.3
50°-60°	127.5	4.6
60°-70°	31.9	1.2
70°-80°	7.6	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°	1485.8	53.6
0°-40°	2205.7	79.6
0°-60°	2730.8	98.6
0°-90°	2771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1994	
5°	1985	188
15°	1889	533
25°	1677	765
35°	1168	720
45°	505	398
55°	130	128
65°	29	32
75°	5	8
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1994.4
2.5°	1980.0
5°	1984.8
7.5°	1970.3
10°	1946.3
12.5°	1922.3
15°	1888.6
17.5°	1859.8
20°	1811.8
22.5°	1744.5
25°	1677.2
27.5°	1585.9
30°	1465.7
32.5°	1331.2
35°	1167.8
37.5°	994.8
40°	817.0
42.5°	653.6
45°	504.6
47.5°	379.7
50°	273.9
52.5°	192.2
55°	129.8
57.5°	86.5
60°	62.5
62.5°	43.3
65°	28.8
67.5°	19.2
70°	14.4
72.5°	9.6
75°	4.8
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)