

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: P203967

Luminaire Tested: **LSR6B20D010BZ EC6B10209727 6LBNB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203967  
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: LSR6B20D010BZ EC6B10209727 6LBNB1  
Description: PORTFOLIO 6IN CYLINDER  
NARROW DISTRIBUTION WITH SPECULAR BLACK TRIM  
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W  
DL3-21.8 6 W DLE-22.46 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 635.4 lumens  
Efficiency: N/A  
Efficacy: 30.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.83  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

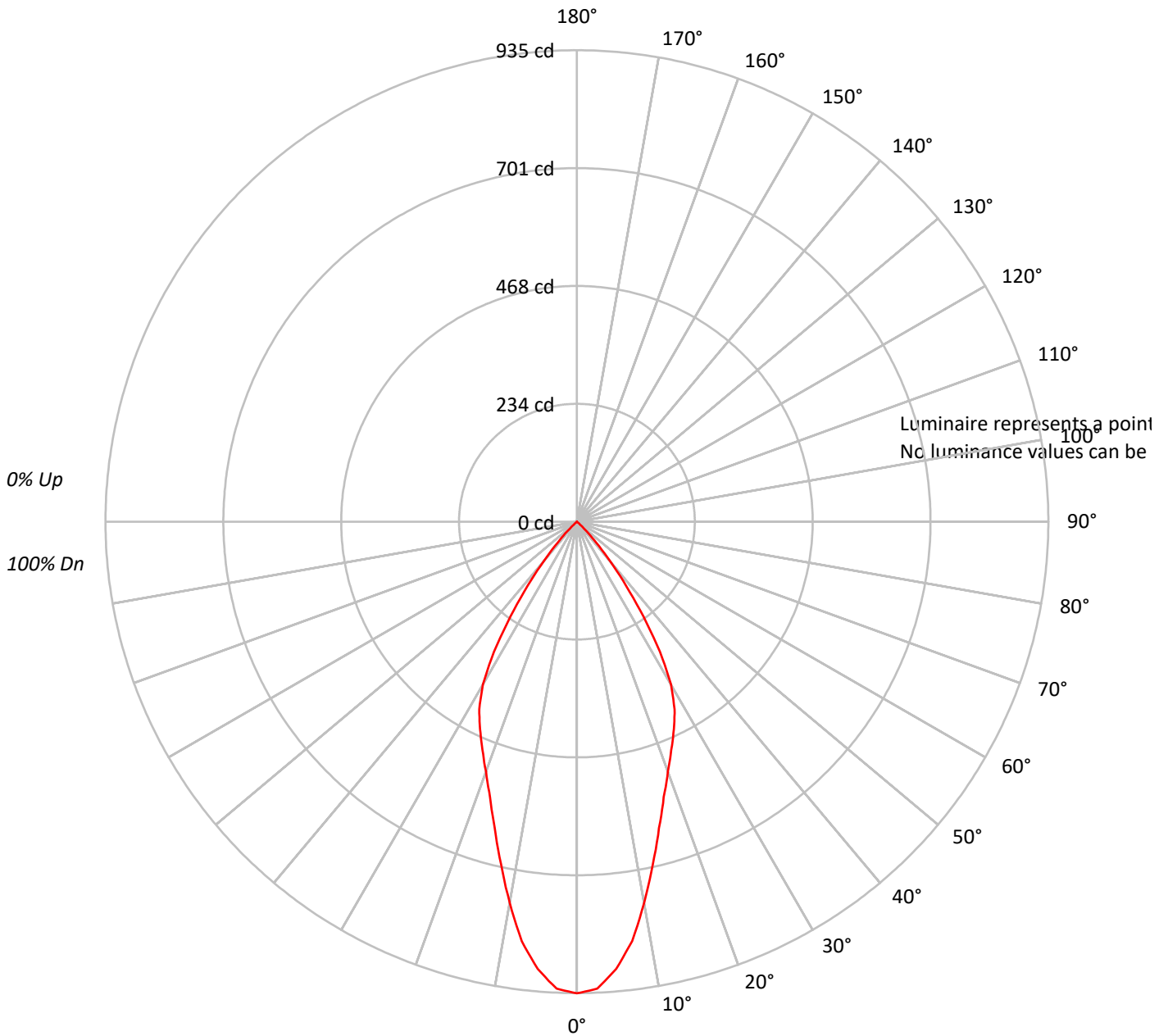
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94						94													
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88						88													
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82						82													
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77						77													
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72						72													
6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	75	72	69	67						67													
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63						63													
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60						60													
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56						56													
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53						53													

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	12.8
10°-20°	176.8	27.8
20°-30°	207.8	32.7
30°-40°	143.1	22.5
40°-50°	26.5	4.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	465.8	73.3
0°-40°	608.9	95.8
0°-60°	635.4	100.0
0°-90°	635.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	935	
5°	890	81
15°	629	177
25°	454	208
35°	230	143
45°	27	26
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	935.4
2.5°	927.1
5°	890.5
7.5°	838.9
10°	767.3
12.5°	695.7
15°	629.1
17.5°	572.6
20°	527.6
22.5°	489.3
25°	454.4
27.5°	419.4
30°	372.8
32.5°	306.2
35°	229.7
37.5°	159.8
40°	101.5
42.5°	56.6
45°	26.6
47.5°	8.3
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)