

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: P211295

Luminaire Tested: **LSR4B15D010BZ EC4B10209035 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211295  
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: LSR4B15D010BZ EC4B10209035 4LBCSMB1  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

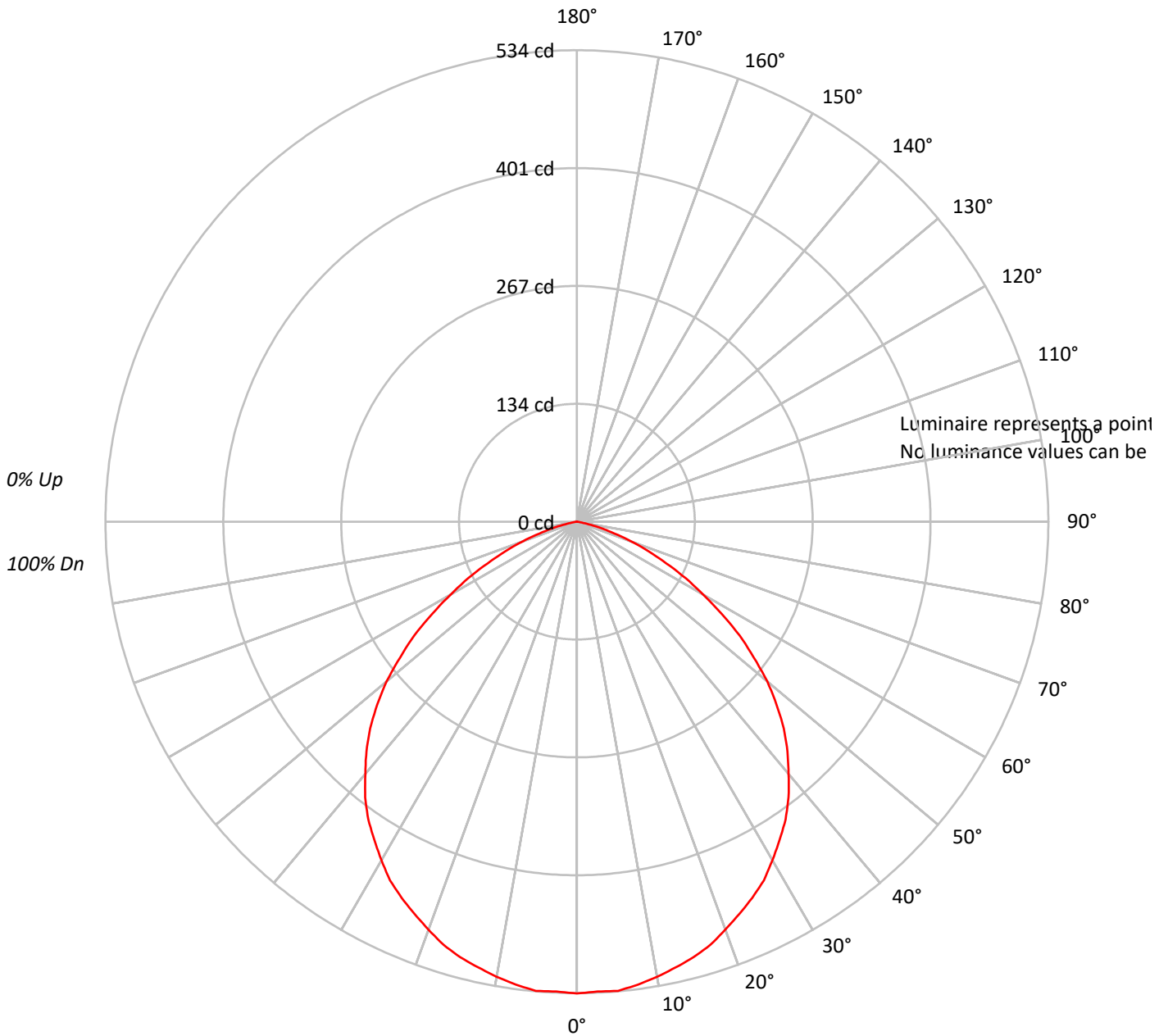
Lumens per Lamp: N/A  
Luminaire Lumens: 1265.6 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 14.3  
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



TEST NUMBER: P211295  
CATALOG NUMBER: LSR4B15D010BZ EC4B10209035 4LBCSMB1

### Luminous Intensity Polar Plot





TEST NUMBER: P211295

CATALOG NUMBER: LSR4B15D010BZ EC4B10209035 4LBCSMB1

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

RF	20				20				20				20				20				
RC	80				70				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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			

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





TEST NUMBER: P211295

CATALOG NUMBER: LSR4B15D010BZ EC4B10209035 4LBCSMB1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	4.0
10°-20°	144.0	11.4
20°-30°	216.5	17.1
30°-40°	256.9	20.3
40°-50°	254.2	20.1
50°-60°	199.7	15.8
60°-70°	111.9	8.8
70°-80°	31.4	2.5
80°-90°	0.5	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°	411.0	32.5
0°-40°	667.9	52.8
0°-60°	1121.7	88.6
0°-90°	1265.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	534	
5°	534	51
15°	511	144
25°	470	216
35°	412	257
45°	331	254
55°	225	200
65°	112	112
75°	27	31
85°	0	0
90°	0	



TEST NUMBER: P211295

CATALOG NUMBER: LSR4B15D010BZ EC4B10209035 4LBCSMB1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	534.4
2.5°	532.6
5°	533.5
7.5°	528.9
10°	523.5
12.5°	517.1
15°	510.8
17.5°	502.6
20°	491.7
22.5°	480.9
25°	470.0
27.5°	458.2
30°	442.8
32.5°	427.3
35°	411.9
37.5°	393.8
40°	372.9
42.5°	352.9
45°	331.2
47.5°	306.7
50°	281.3
52.5°	252.2
55°	225.0
57.5°	194.2
60°	165.1
62.5°	138.8
65°	111.6
67.5°	88.0
70°	65.3
72.5°	44.5
75°	27.2
77.5°	13.6
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)