

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: P212223

Luminaire Tested: **LSR4B40D010BZ EC4B30508027 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212223  
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 EC4B30508027 4LBCSMB1  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 3820.5 lumens  
Efficiency: N/A  
Efficacy: 91.4 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

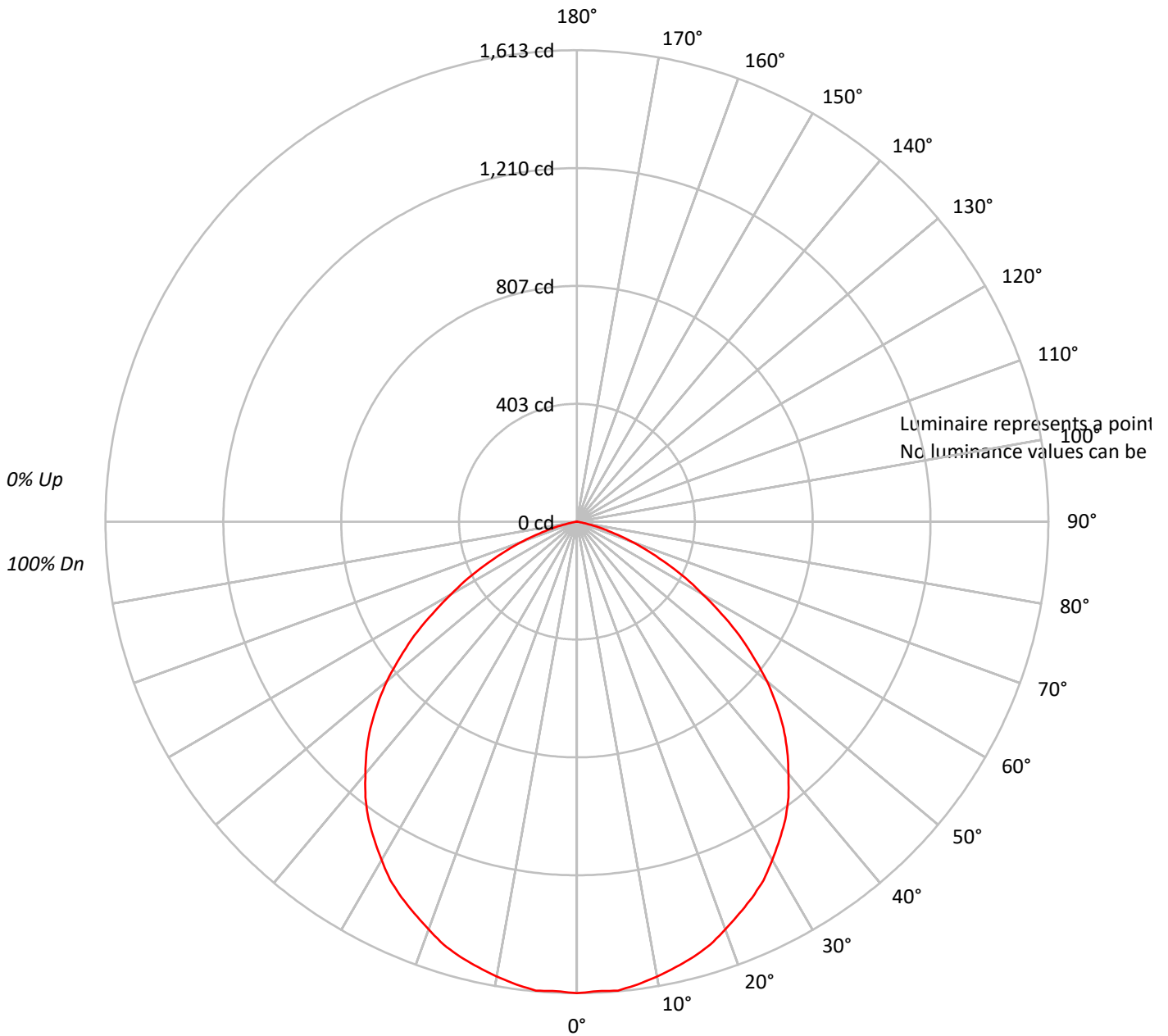
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	4.0
10°-20°	434.7	11.4
20°-30°	653.5	17.1
30°-40°	775.4	20.3
40°-50°	767.3	20.1
50°-60°	602.7	15.8
60°-70°	337.9	8.8
70°-80°	94.9	2.5
80°-90°	1.5	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°	1240.8	32.5
0°-40°	2016.2	52.8
0°-60°	3386.2	88.6
0°-90°	3820.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1613	
5°	1610	153
15°	1542	435
25°	1419	653
35°	1244	775
45°	1000	767
55°	679	603
65°	337	338
75°	82	95
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1613.2
2.5°	1607.7
5°	1610.5
7.5°	1596.8
10°	1580.3
12.5°	1561.2
15°	1542.0
17.5°	1517.4
20°	1484.5
22.5°	1451.6
25°	1418.8
27.5°	1383.1
30°	1336.6
32.5°	1290.0
35°	1243.5
37.5°	1188.7
40°	1125.7
42.5°	1065.4
45°	999.7
47.5°	925.8
50°	849.1
52.5°	761.4
55°	679.2
57.5°	586.1
60°	498.5
62.5°	419.1
65°	336.9
67.5°	265.7
70°	197.2
72.5°	134.2
75°	82.2
77.5°	41.1
80°	11.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)