

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: P212339

Luminaire Tested: **LSR4B40D010BZ EC4B30509030 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212339  
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 EC4B30509030 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: 3410.8 lumens  
Efficiency: N/A  
Efficacy: 81.6 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

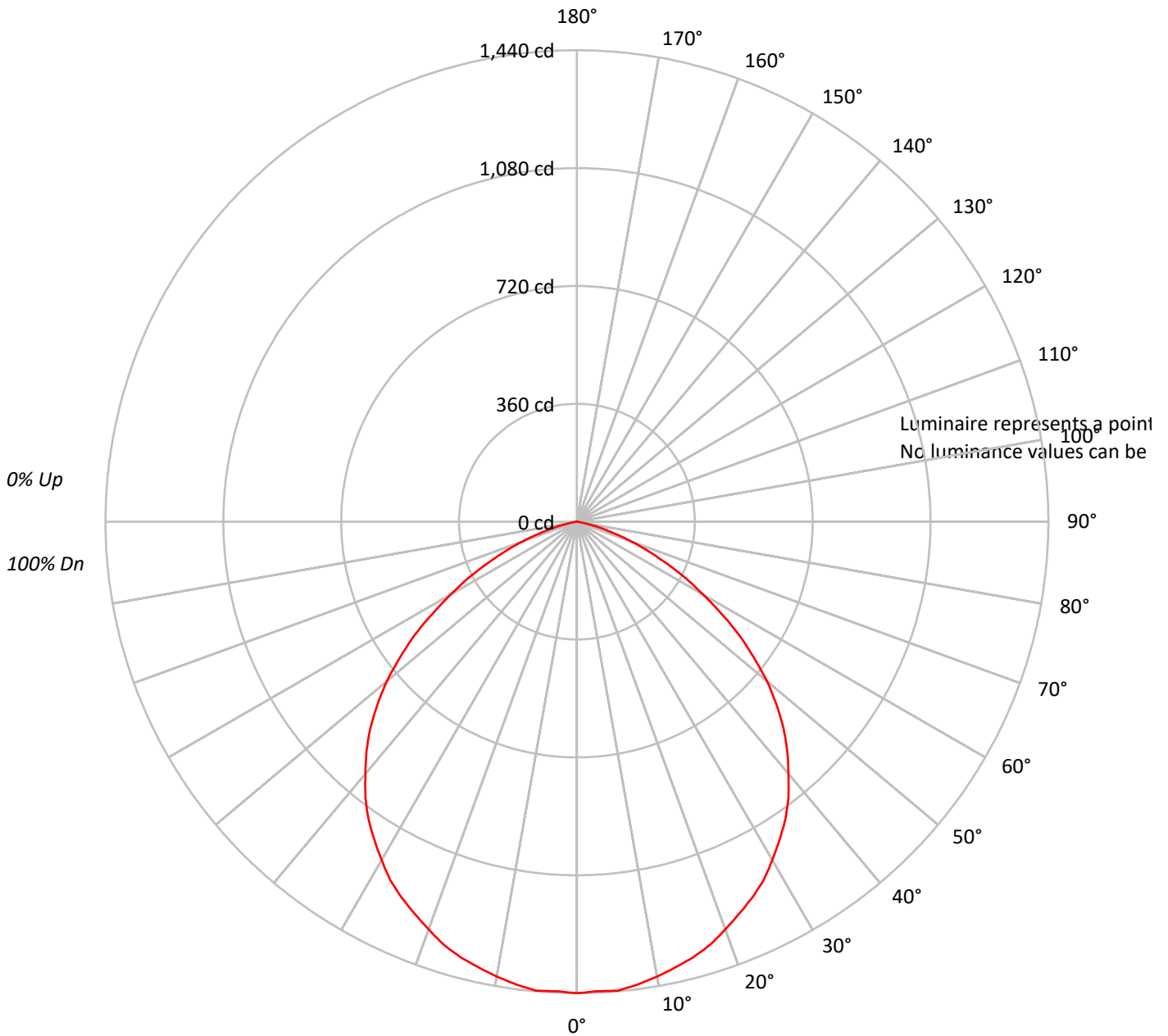
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.2	4.0
10°-20°	388.1	11.4
20°-30°	583.4	17.1
30°-40°	692.2	20.3
40°-50°	685.0	20.1
50°-60°	538.1	15.8
60°-70°	301.7	8.8
70°-80°	84.7	2.5
80°-90°	1.3	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°	1107.7	32.5
0°-40°	1800.0	52.8
0°-60°	3023.1	88.6
0°-90°	3410.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3410.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1440	
5°	1438	136
15°	1377	388
25°	1267	583
35°	1110	692
45°	892	685
55°	606	538
65°	301	302
75°	73	85
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1440.2
2.5°	1435.4
5°	1437.8
7.5°	1425.6
10°	1410.9
12.5°	1393.8
15°	1376.7
17.5°	1354.7
20°	1325.3
22.5°	1296.0
25°	1266.6
27.5°	1234.8
30°	1193.3
32.5°	1151.7
35°	1110.1
37.5°	1061.2
40°	1005.0
42.5°	951.2
45°	892.5
47.5°	826.5
50°	758.0
52.5°	679.8
55°	606.4
57.5°	523.3
60°	445.0
62.5°	374.1
65°	300.8
67.5°	237.2
70°	176.1
72.5°	119.8
75°	73.4
77.5°	36.7
80°	9.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)