

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: P212499

Luminaire Tested: **LSR4B40D010BZ EC4B30509040 4LBPSMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212499  
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 EC4B30509040 4LBPSMW1  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE 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: 3781.5 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

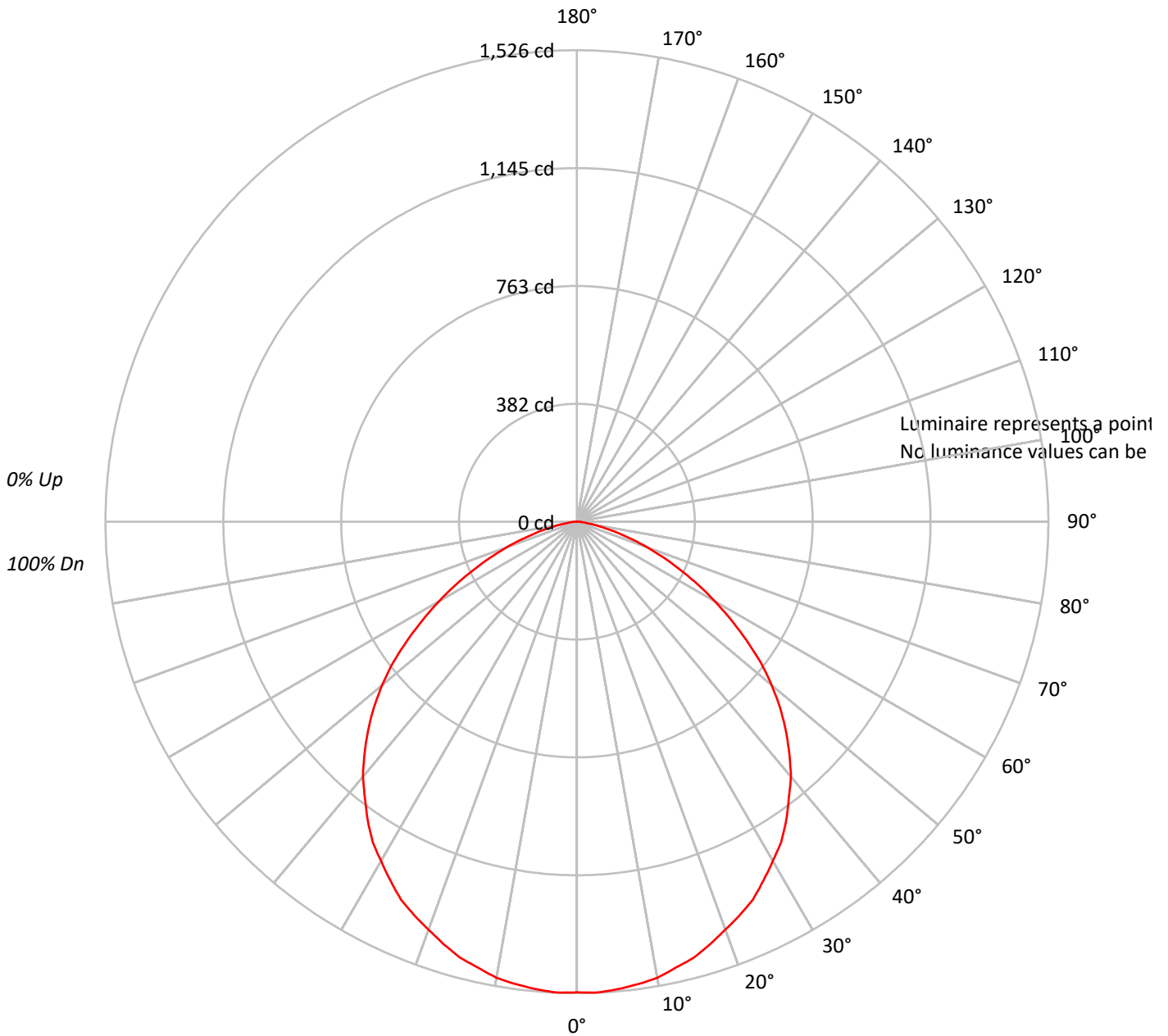
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63																			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47																			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37																			
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.4	3.8
10°-20°	411.5	10.9
20°-30°	619.7	16.4
30°-40°	737.4	19.5
40°-50°	736.1	19.5
50°-60°	598.6	15.8
60°-70°	368.3	9.7
70°-80°	142.7	3.8
80°-90°	22.9	0.6
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°	1175.6	31.1
0°-40°	1913.1	50.6
0°-60°	3247.7	85.9
0°-90°	3781.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1524	
5°	1519	144
15°	1461	412
25°	1349	620
35°	1181	737
45°	957	736
55°	670	599
65°	370	368
75°	130	143
85°	18	23
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1523.6
2.5°	1525.9
5°	1519.1
7.5°	1510.2
10°	1499.0
12.5°	1478.8
15°	1460.9
17.5°	1434.0
20°	1404.9
22.5°	1378.0
25°	1348.8
27.5°	1308.5
30°	1268.2
32.5°	1230.1
35°	1180.8
37.5°	1127.0
40°	1077.7
42.5°	1017.2
45°	956.7
47.5°	891.8
50°	822.3
52.5°	750.6
55°	669.9
57.5°	591.5
60°	515.3
62.5°	441.4
65°	369.7
67.5°	302.5
70°	239.7
72.5°	181.5
75°	130.0
77.5°	85.1
80°	51.5
82.5°	31.4
85°	17.9
87.5°	9.0
90°	0.0



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— 0°-180°







(END OF REPORT)