

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: P212280

Luminaire Tested: **LSR4B40D010BZ EC4B30509027 4LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212280  
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 EC4B30509027 4LBWWH1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH WHEAT 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: 2913.2 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

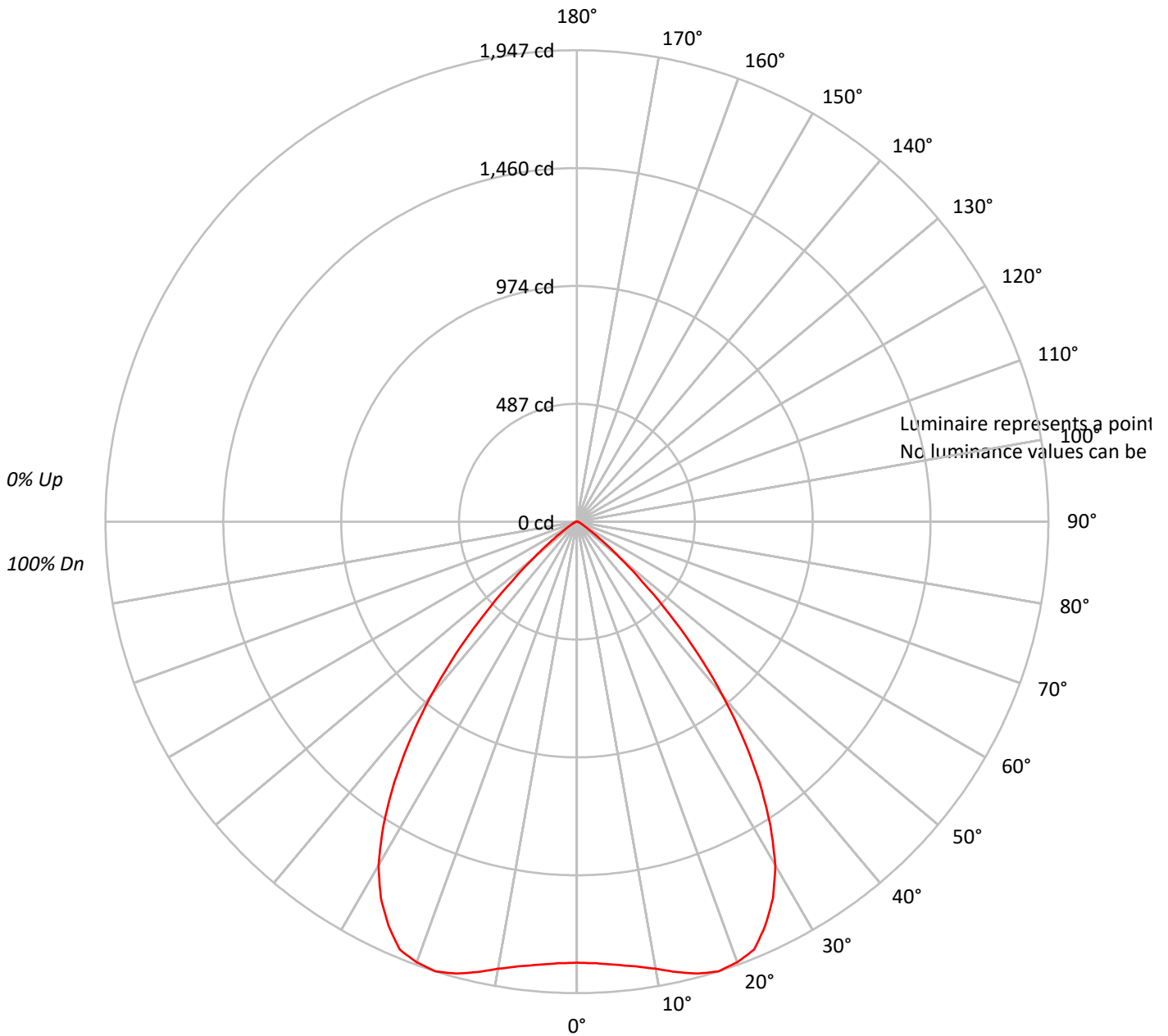
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212280

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWWH1

### Luminous Intensity Polar Plot





TEST NUMBER: P212280

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWWH1

**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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84																			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53																			
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45																			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41																			

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





TEST NUMBER: P212280

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWWH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.5	6.1
10°-20°	546.0	18.7
20°-30°	839.8	28.8
30°-40°	810.3	27.8
40°-50°	422.5	14.5
50°-60°	88.9	3.1
60°-70°	20.7	0.7
70°-80°	8.0	0.3
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°	1562.3	53.6
0°-40°	2372.6	81.4
0°-60°	2884.0	99.0
0°-90°	2913.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1822	
5°	1837	176
15°	1932	546
25°	1840	840
35°	1315	810
45°	537	422
55°	80	89
65°	19	21
75°	8	8
85°	0	1
90°	0	



TEST NUMBER: P212280

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWWH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1821.5
2.5°	1825.3
5°	1836.7
7.5°	1851.9
10°	1874.8
12.5°	1905.3
15°	1932.0
17.5°	1947.2
20°	1935.8
22.5°	1912.9
25°	1840.5
27.5°	1752.9
30°	1638.6
32.5°	1486.1
35°	1314.7
37.5°	1127.9
40°	933.6
42.5°	739.3
45°	537.3
47.5°	362.0
50°	232.4
52.5°	141.0
55°	80.0
57.5°	49.5
60°	34.3
62.5°	26.7
65°	19.1
67.5°	15.2
70°	11.4
72.5°	11.4
75°	7.6
77.5°	3.8
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)