

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: P212455

Luminaire Tested: **LSR4B40D010BZ EC4B30508040 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212455  
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 EC4B30508040 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: 4137.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

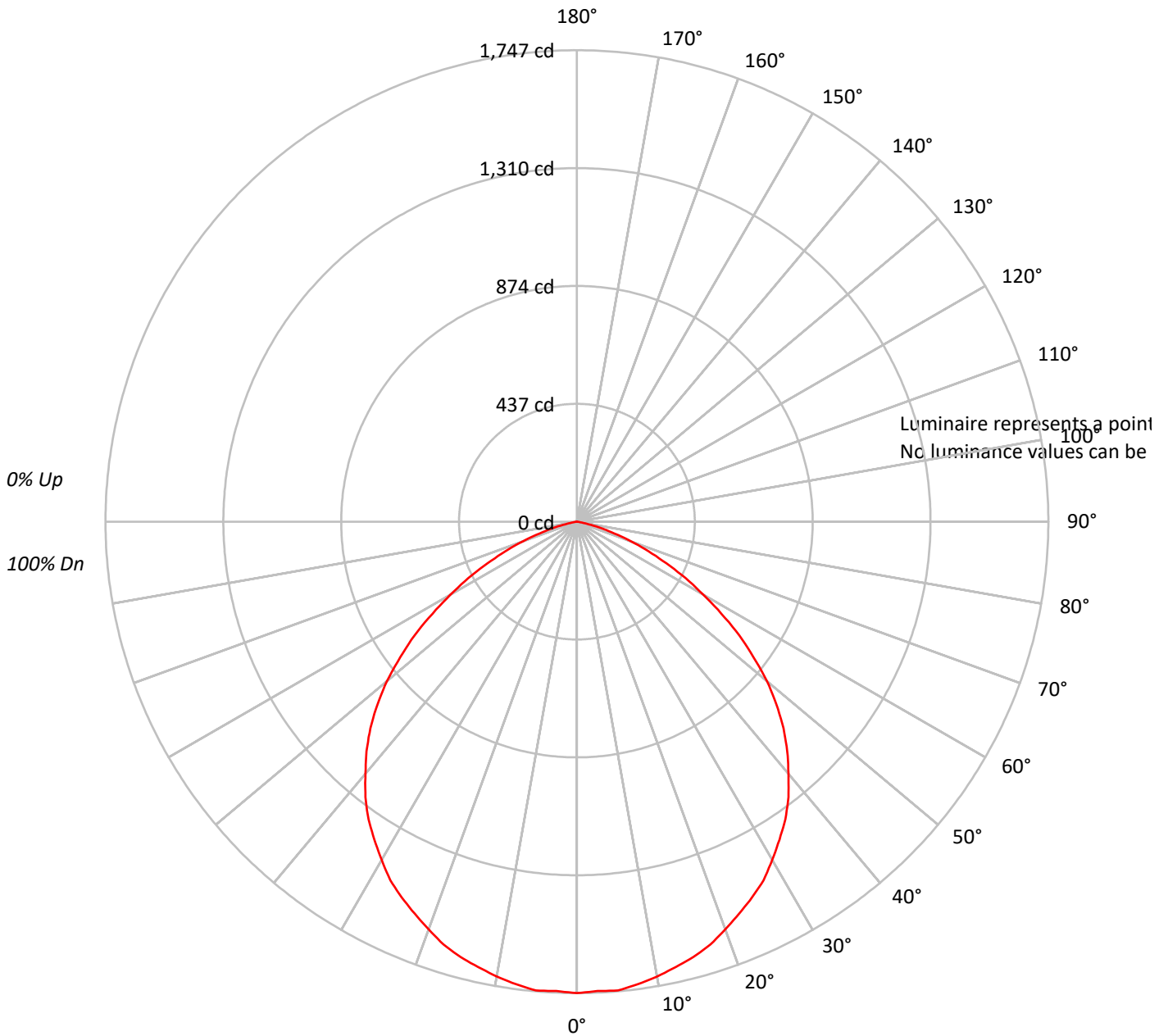
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	100	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88	88	88	88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	75	75	75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49	49	49	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39	39	39	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	4.0
10°-20°	470.7	11.4
20°-30°	707.6	17.1
30°-40°	839.6	20.3
40°-50°	830.9	20.1
50°-60°	652.6	15.8
60°-70°	365.9	8.8
70°-80°	102.8	2.5
80°-90°	1.6	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°	1343.6	32.5
0°-40°	2183.2	52.8
0°-60°	3666.7	88.6
0°-90°	4137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4137.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1747	
5°	1744	165
15°	1670	471
25°	1536	708
35°	1346	840
45°	1082	831
55°	736	653
65°	365	366
75°	89	103
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1746.9
2.5°	1740.9
5°	1743.9
7.5°	1729.1
10°	1711.3
12.5°	1690.5
15°	1669.8
17.5°	1643.1
20°	1607.5
22.5°	1571.9
25°	1536.3
27.5°	1497.7
30°	1447.3
32.5°	1396.9
35°	1346.5
37.5°	1287.2
40°	1219.0
42.5°	1153.7
45°	1082.5
47.5°	1002.4
50°	919.4
52.5°	824.5
55°	735.5
57.5°	634.7
60°	539.8
62.5°	453.8
65°	364.8
67.5°	287.7
70°	213.5
72.5°	145.3
75°	89.0
77.5°	44.5
80°	11.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)