

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: P212420

Luminaire Tested: **LSR4B40D010BZ EC4B30408035 4LBW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35232)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR4B40D010BZ EC4B30408035 4LBW1LI  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4148.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.19  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

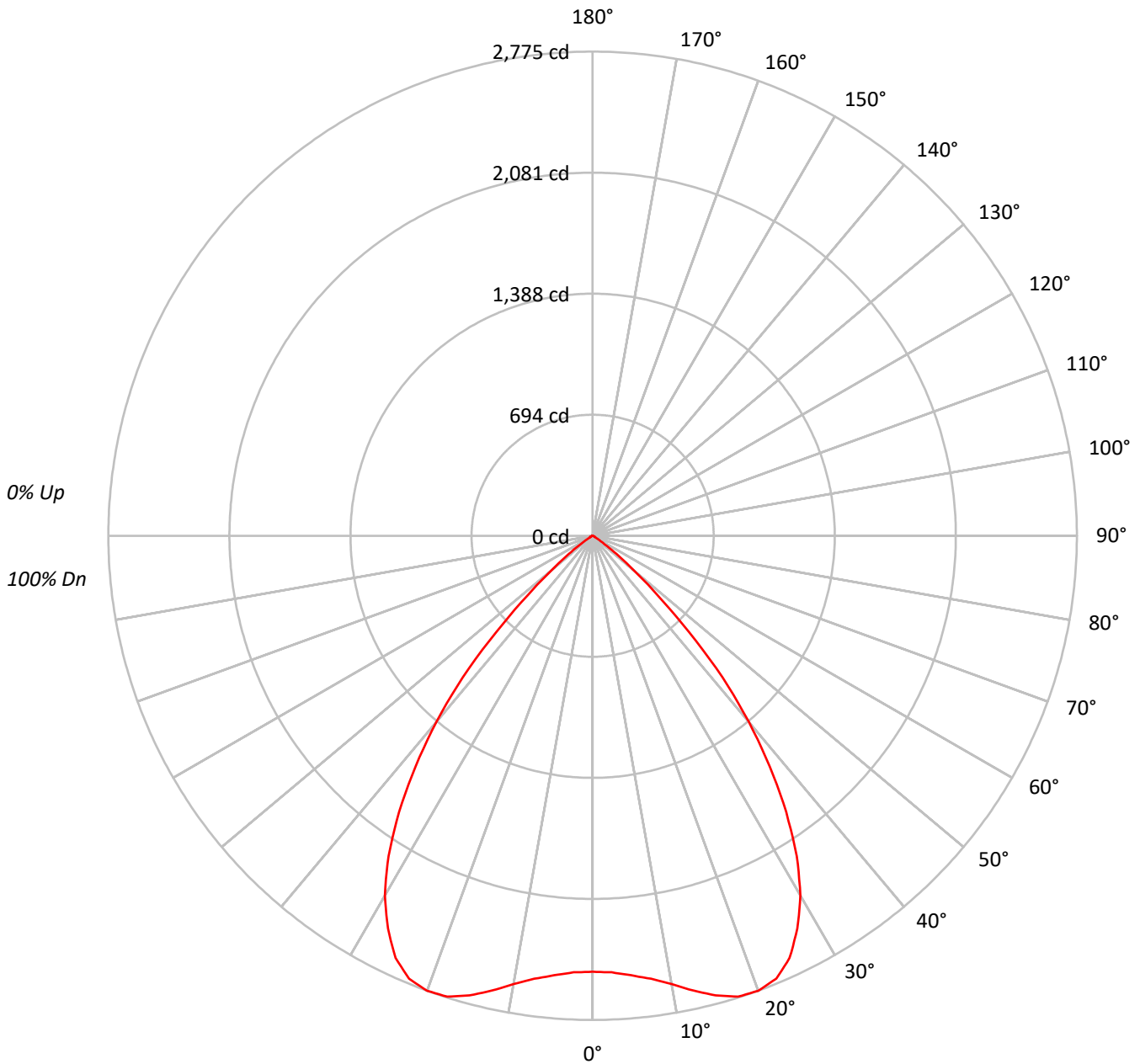
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64	64	64	64
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49	49	49	49
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42

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

	0°
0°	27059
5°	27483
10°	28685
15°	30568
20°	31978
25°	31906
30°	29770
35°	25554
40°	19670
45°	11948
50°	5148
55°	1569
60°	407
65°	274
70°	171
75°	113
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.8	5.9
10°-20°	772.1	18.6
20°-30°	1213.7	29.3
30°-40°	1191.4	28.7
40°-50°	613.8	14.8
50°-60°	99.5	2.4
60°-70°	10.9	0.3
70°-80°	2.8	0.1
80°-90°	0.0	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°	2229.6	53.8
0°-40°	3421.0	82.5
0°-60°	4134.3	99.7
0°-90°	4148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2499	
5°	2528	244
15°	2727	772
25°	2670	1214
35°	1933	1191
45°	780	614
55°	83	100
65°	11	11
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2498.8
2.5°	2504.2
5°	2528.3
7.5°	2560.5
10°	2608.7
12.5°	2670.4
15°	2726.7
17.5°	2769.6
20°	2775.0
22.5°	2748.2
25°	2670.4
27.5°	2539.0
30°	2380.9
32.5°	2177.1
35°	1933.1
37.5°	1667.7
40°	1391.5
42.5°	1101.9
45°	780.2
47.5°	501.4
50°	305.6
52.5°	171.6
55°	83.1
57.5°	37.5
60°	18.8
62.5°	13.4
65°	10.7
67.5°	8.0
70°	5.4
72.5°	2.7
75°	2.7
77.5°	2.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)