

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: P212397

Luminaire Tested: **LSR4B40D010BZ EC4B30508035 4LBCS1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35144)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR4B40D010BZ EC4B30508035 4LBCS1MMS  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH SHALLOW MATTE METALIC SILVER TRIM  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4093.0 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

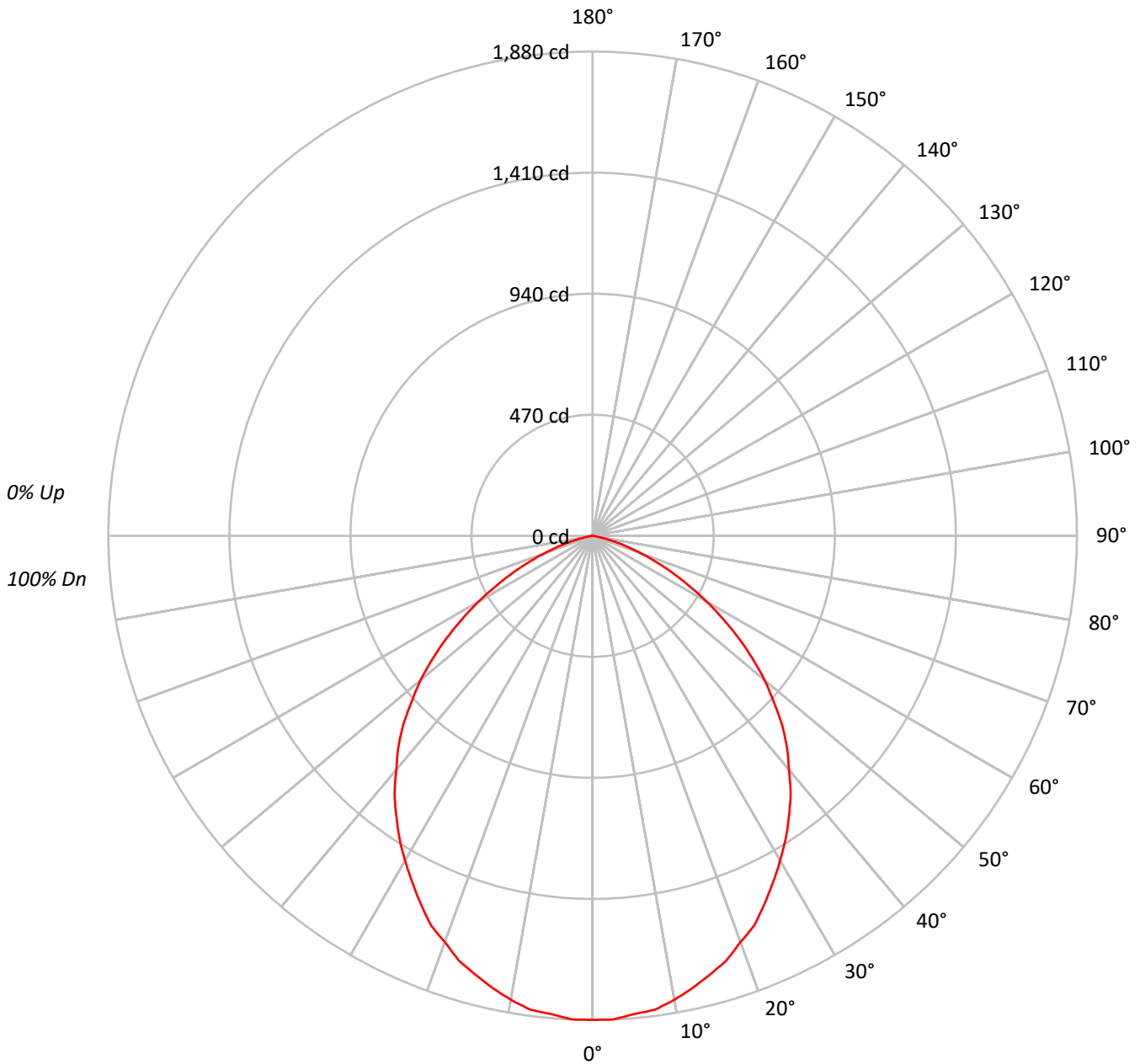
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65			65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40			40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36			36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32			32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29			29

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

	0°
0°	20354
5°	20258
10°	20114
15°	19766
20°	19341
25°	18852
30°	18206
35°	17569
40°	16765
45°	15933
50°	14673
55°	13046
60°	11065
65°	8819
70°	6370
75°	3657
80°	992
85°	323



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.1	4.3
10°-20°	497.0	12.1
20°-30°	726.0	17.7
30°-40°	830.3	20.3
40°-50°	798.0	19.5
50°-60°	616.2	15.1
60°-70°	343.9	8.4
70°-80°	100.1	2.4
80°-90°	4.3	0.1
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°	1400.1	34.2
0°-40°	2230.4	54.5
0°-60°	3644.7	89.0
0°-90°	4093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1880	
5°	1864	177
15°	1763	497
25°	1578	726
35°	1329	830
45°	1040	798
55°	691	616
65°	344	344
75°	87	100
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1879.6
2.5°	1879.6
5°	1863.7
7.5°	1855.8
10°	1829.3
12.5°	1797.5
15°	1763.1
17.5°	1728.7
20°	1678.4
22.5°	1638.7
25°	1577.8
27.5°	1516.9
30°	1456.0
32.5°	1395.1
35°	1329.0
37.5°	1262.8
40°	1186.0
42.5°	1117.2
45°	1040.4
47.5°	953.0
50°	871.0
52.5°	781.0
55°	691.0
57.5°	598.3
60°	510.9
62.5°	423.6
65°	344.2
67.5°	270.0
70°	201.2
72.5°	140.3
75°	87.4
77.5°	45.0
80°	15.9
82.5°	5.3
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)