

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: P224916

Luminaire Tested: **LSR2B10FL409050D010 2LBD\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B10FL409050D010 2LBD\*H  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 897.8 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

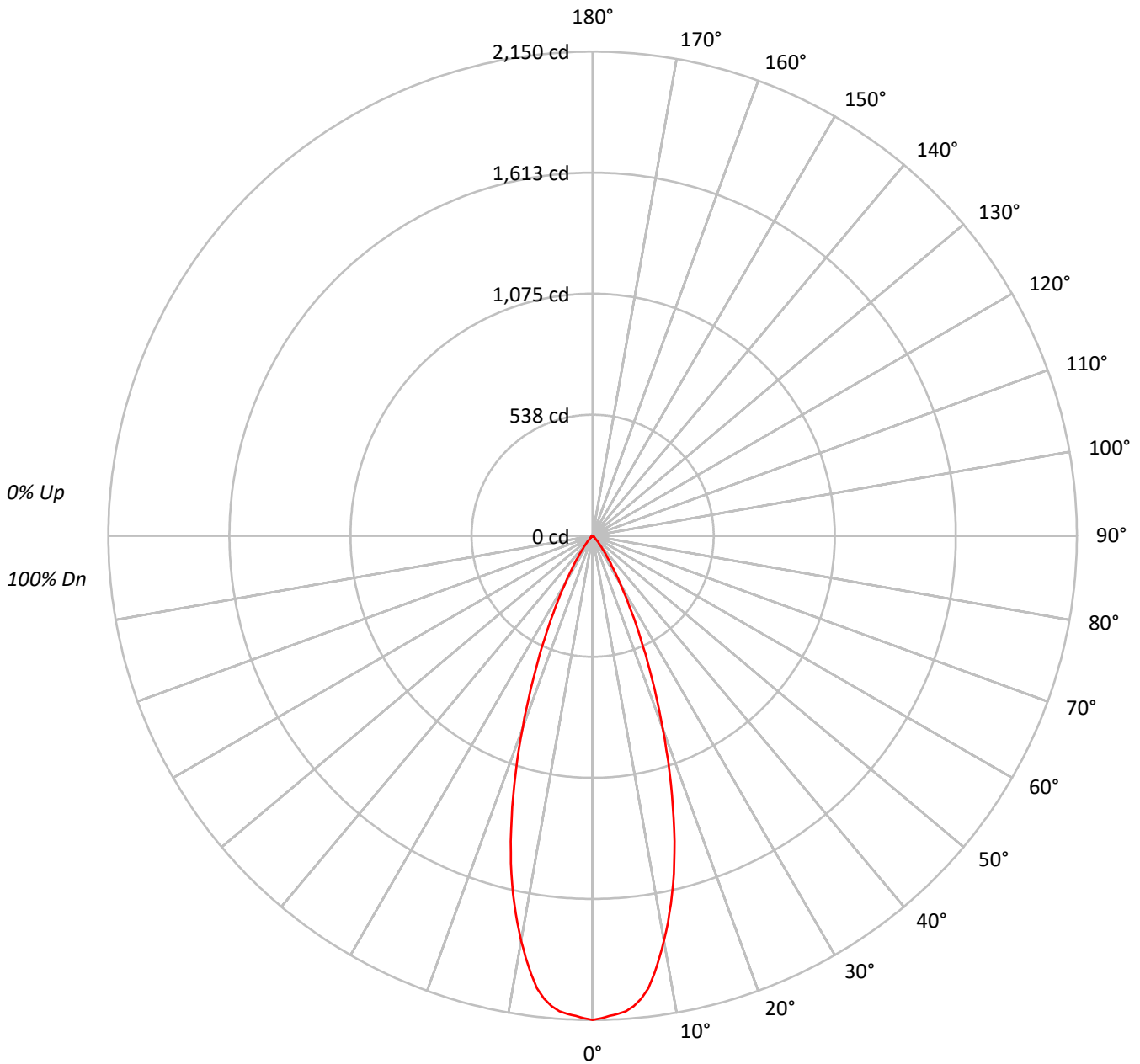
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224916

CATALOG NUMBER: LSR2B10FL409050D010 2LBD\*H

### Luminous Intensity Polar Plot





TEST NUMBER: P224916

CATALOG NUMBER: LSR2B10FL409050D010 2LBD\*H

**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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91	91	91	91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87	87	87	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	86	83	80	79	79	79	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73	73	73	73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67	67	67	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64	64	64	64

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

	0°
0°	832833
5°	815406
10°	718126
15°	563419
20°	374158
25°	214763
30°	107702
35°	49745
40°	20226
45°	9039
50°	4700
55°	2904
60°	1317
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224916

CATALOG NUMBER: LSR2B10FL409050D010 2LBD\*H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.5	21.3
10°-20°	380.3	42.4
20°-30°	236.3	26.3
30°-40°	71.3	7.9
40°-50°	14.6	1.6
50°-60°	3.7	0.4
60°-70°	0.2	0.0
70°-80°	0.0	0.0
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°	808.1	90.0
0°-40°	879.4	97.9
0°-60°	897.6	100.0
0°-90°	897.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2150	
5°	2097	192
15°	1405	380
25°	502	236
35°	105	71
45°	16	15
55°	4	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224916

CATALOG NUMBER: LSR2B10FL409050D010 2LBD\*H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2150.1
1°	2143.2
2°	2133.6
3°	2126.6
4°	2116.2
5°	2097.1
6°	2066.6
7°	2024.9
8°	1964.9
9°	1897.1
10°	1825.8
11°	1750.2
12°	1671.1
13°	1588.5
14°	1498.0
15°	1405.0
17.5°	1155.5
20°	907.7
22.5°	688.6
25°	502.5
27.5°	354.7
30°	240.8
32.5°	158.2
35°	105.2
37.5°	65.2
40°	40.0
42.5°	26.1
45°	16.5
47.5°	10.4
50°	7.8
52.5°	5.2
55°	4.3
57.5°	2.6
60°	1.7
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P224916

CATALOG NUMBER: LSR2B10FL409050D010 2LBD\*H

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)