

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: P224499

Luminaire Tested: **LSR2B10FL409024D010 2LBDL\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B10FL409024D010 2LBDL\*WMH  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 705.8 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

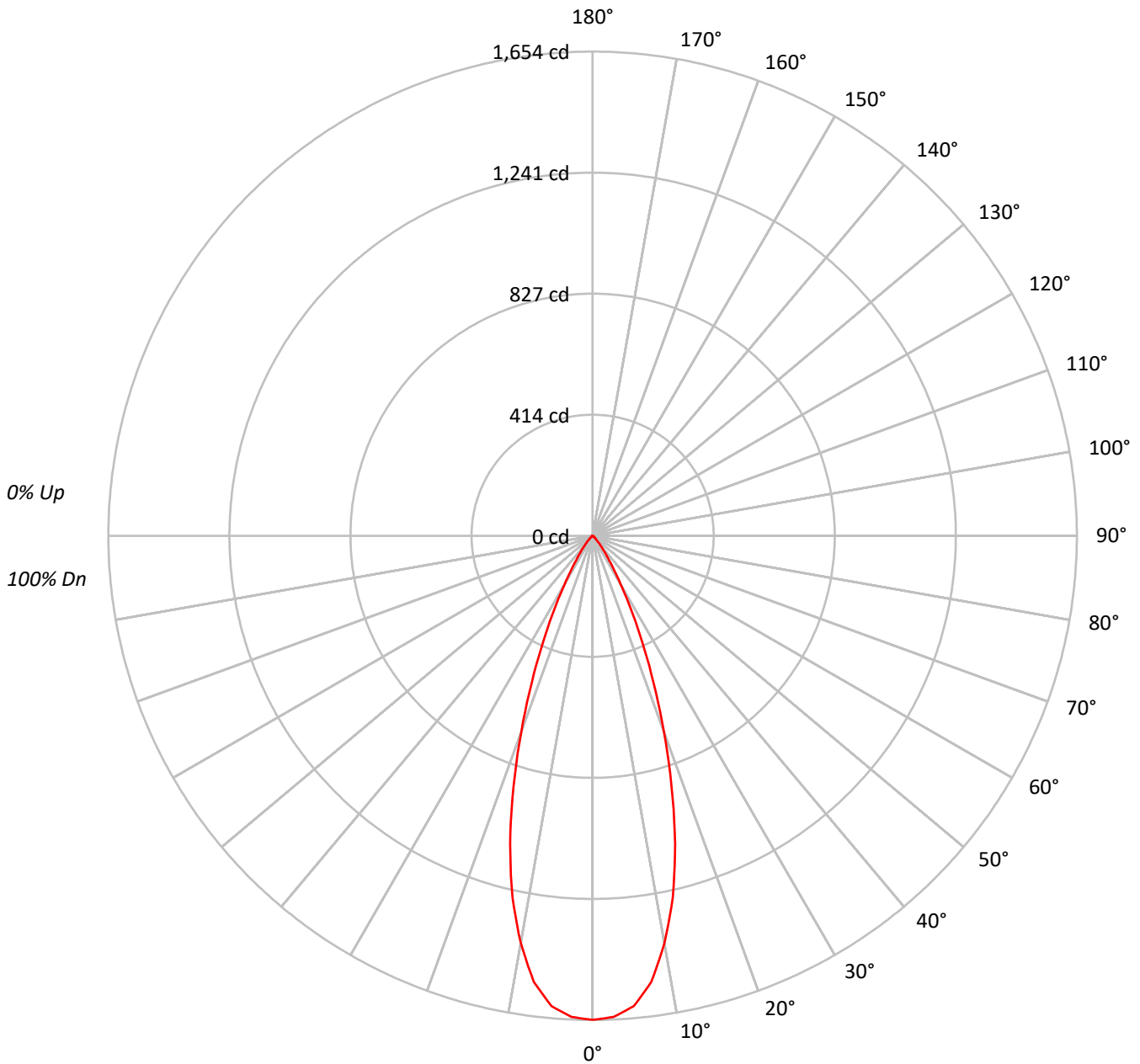
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

	0°
0°	640477
5°	627253
10°	555685
15°	436660
20°	293572
25°	170528
30°	85249
35°	40193
40°	19012
45°	8326
50°	4339
55°	2431
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	20.9
10°-20°	295.3	41.8
20°-30°	186.7	26.4
30°-40°	58.4	8.3
40°-50°	13.6	1.9
50°-60°	3.6	0.5
60°-70°	0.7	0.1
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°	629.6	89.2
0°-40°	688.0	97.5
0°-60°	705.2	99.9
0°-90°	705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1654	
5°	1613	148
15°	1089	295
25°	399	187
35°	85	58
45°	15	14
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1653.5
2.5°	1645.4
5°	1613.2
7.5°	1537.1
10°	1412.8
12.5°	1265.1
15°	1088.9
17.5°	896.5
20°	712.2
22.5°	542.2
25°	399.0
27.5°	281.8
30°	190.6
32.5°	127.1
35°	85.0
37.5°	57.3
40°	37.6
42.5°	23.3
45°	15.2
47.5°	10.7
50°	7.2
52.5°	5.4
55°	3.6
57.5°	2.7
60°	1.8
62.5°	1.8
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)