

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: P#

Luminaire Tested: **LSR2B20WFL559727D010 2LBDLC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14810)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B20WFL559727D010 2LBDLC\*MW  
Description: 2000 Lumen, 2inch Portfolio LED Cylinder  
WIDE FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

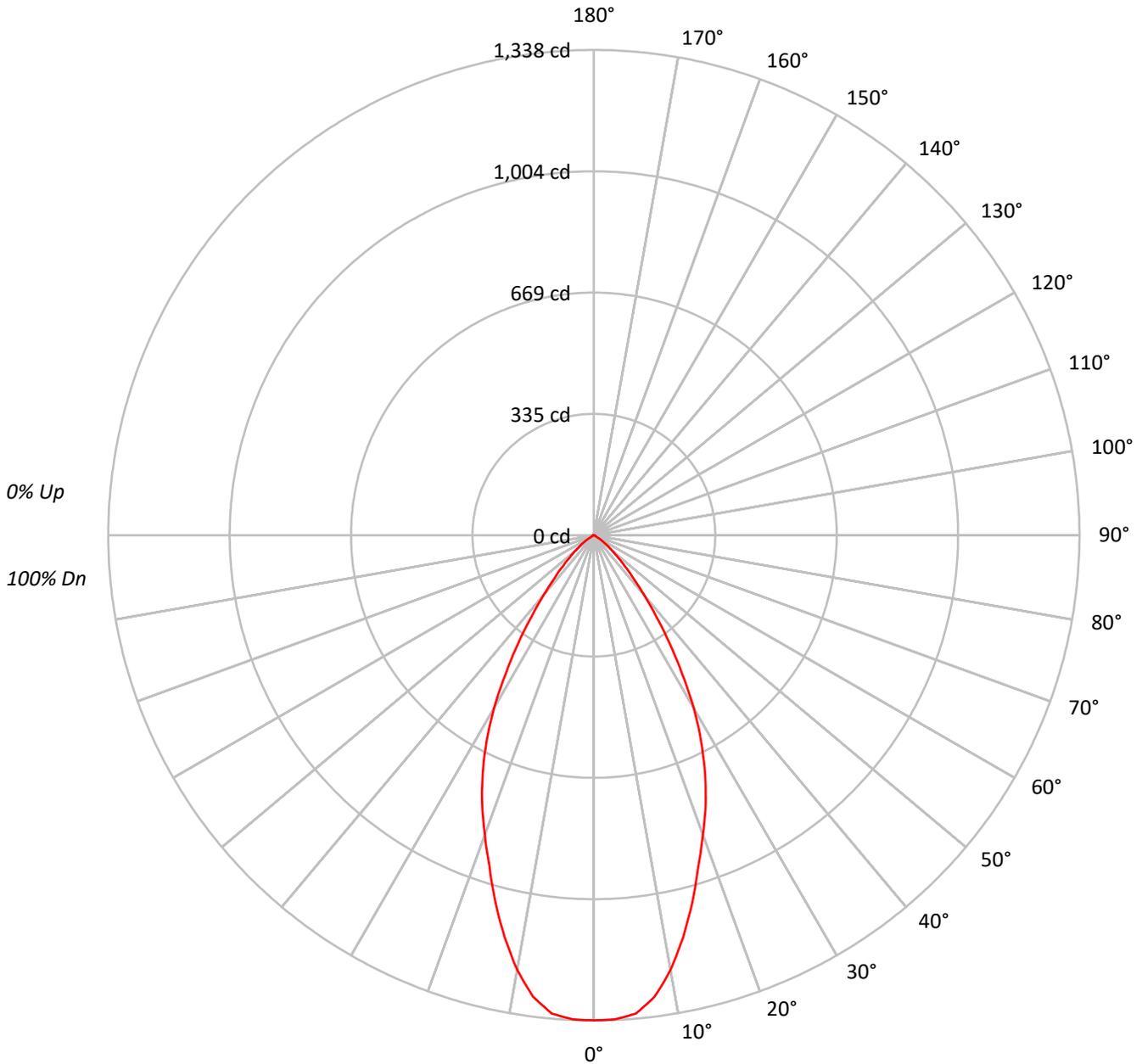
Lumens per Lamp: N/A  
Luminaire Lumens: 1104.6 lumens  
Efficiency: N/A  
Efficacy: 52.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.9  
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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																											
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86																											
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80																											
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74																											
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69																											
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64																											
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																											
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56																											
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53																											
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49																											

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

	0°
0°	518191
5°	514883
10°	478672
15°	420218
20°	362246
25°	309772
30°	245819
35°	171365
40°	108410
45°	66173
50°	39109
55°	21408
60°	4648
65°	4124
70°	3398
75°	4490
80°	3346
85°	6666



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	11.1
10°-20°	291.8	26.4
20°-30°	329.3	29.8
30°-40°	227.8	20.6
40°-50°	97.1	8.8
50°-60°	28.1	2.5
60°-70°	4.1	0.4
70°-80°	2.6	0.2
80°-90°	1.0	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°	744.0	67.4
0°-40°	971.8	88.0
0°-60°	1097.0	99.3
0°-90°	1104.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1338	
5°	1324	123
15°	1048	292
25°	725	329
35°	362	228
45°	121	97
55°	32	28
65°	4	4
75°	3	3
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1337.8
2.5°	1336.3
5°	1324.2
7.5°	1283.5
10°	1217.0
12.5°	1135.5
15°	1047.9
17.5°	957.3
20°	878.8
22.5°	804.8
25°	724.8
27.5°	640.2
30°	549.6
32.5°	451.5
35°	362.4
37.5°	280.9
40°	214.4
42.5°	161.6
45°	120.8
47.5°	87.6
50°	64.9
52.5°	46.8
55°	31.7
57.5°	13.6
60°	6.0
62.5°	4.5
65°	4.5
67.5°	3.0
70°	3.0
72.5°	3.0
75°	3.0
77.5°	1.5
80°	1.5
82.5°	1.5
85°	1.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)