

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: **LSR2B20WFL559030D010 2LBDL\*LI**

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 (P29153)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B20WFL559030D010 2LBDL\*LI  
Description: 2000 Lumen, 2inch Portfolio LED Cylinder  
WIDE FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

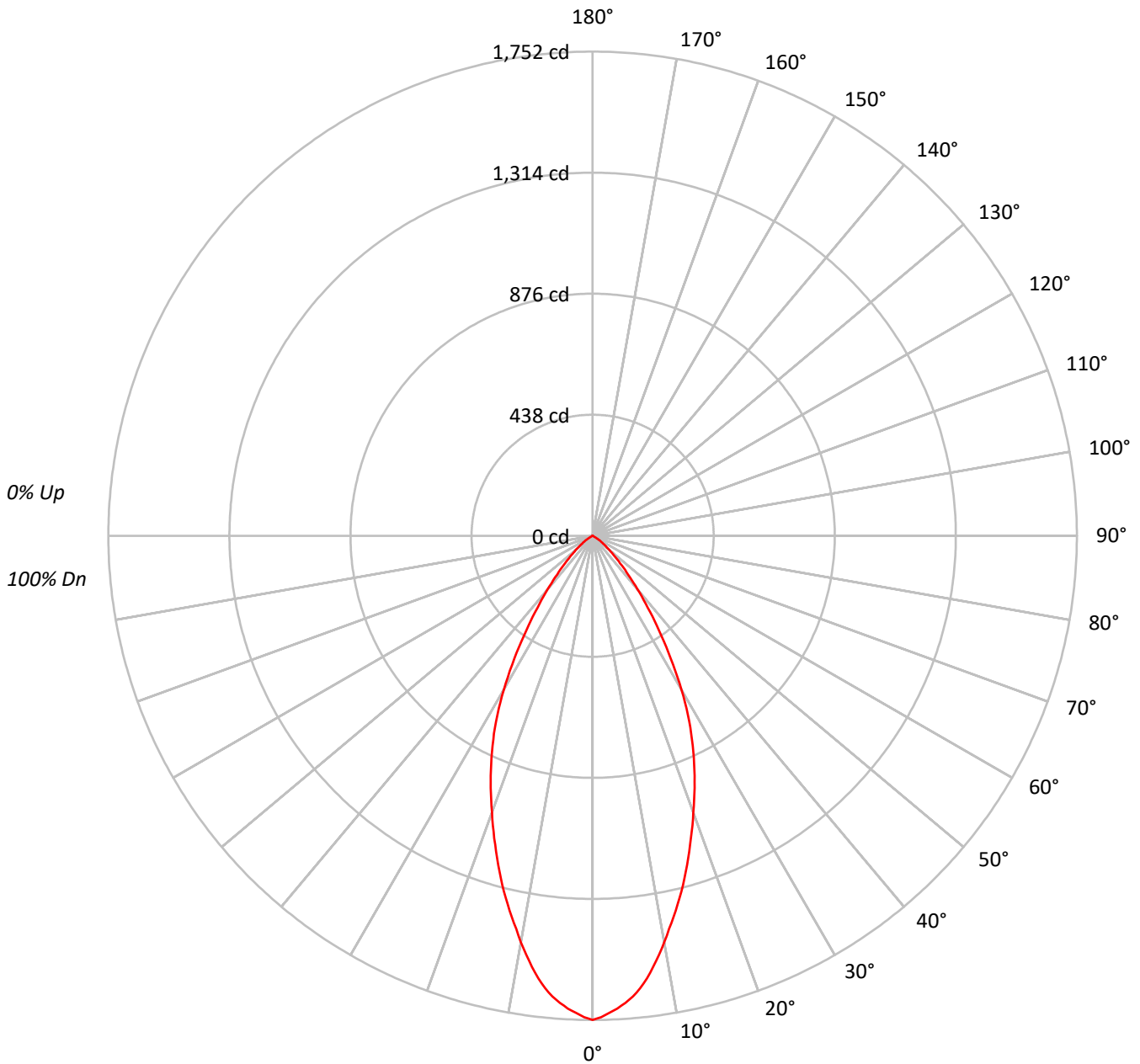
Lumens per Lamp: N/A  
Luminaire Lumens: 1317.9 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.8  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																											
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																											
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																											
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																											
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																											
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																											
7	83	73	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61																											
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	66	61	58	57																											
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53																											
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50																											

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

	0°
0°	678630
5°	650544
10°	587504
15°	514737
20°	439163
25°	368409
30°	287370
35°	198082
40°	127220
45°	76964
50°	45195
55°	25324
60°	7282
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	11.7
10°-20°	356.7	27.1
20°-30°	392.1	29.7
30°-40°	265.3	20.1
40°-50°	113.7	8.6
50°-60°	34.7	2.6
60°-70°	1.4	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°	902.7	68.5
0°-40°	1168.0	88.6
0°-60°	1316.5	99.9
0°-90°	1317.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1752	
5°	1673	154
15°	1284	357
25°	862	392
35°	419	265
45°	140	114
55°	38	35
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1752.0
1°	1742.7
2°	1727.9
3°	1713.2
4°	1694.5
5°	1673.1
6°	1646.3
7°	1614.2
8°	1575.3
9°	1535.2
10°	1493.7
11°	1449.5
12°	1409.4
13°	1367.9
14°	1326.4
15°	1283.6
17.5°	1172.5
20°	1065.4
22.5°	963.7
25°	862.0
27.5°	757.6
30°	642.5
32.5°	526.0
35°	418.9
37.5°	327.9
40°	251.6
42.5°	190.1
45°	140.5
47.5°	103.1
50°	75.0
52.5°	53.5
55°	37.5
57.5°	24.1
60°	9.4
62.5°	1.3
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



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)