

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: P224803

Luminaire Tested: **LSSQ2B20FL409730D010 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQ2B20FL409730D010 2LBDL\*B  
Description: 2000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1271.9 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

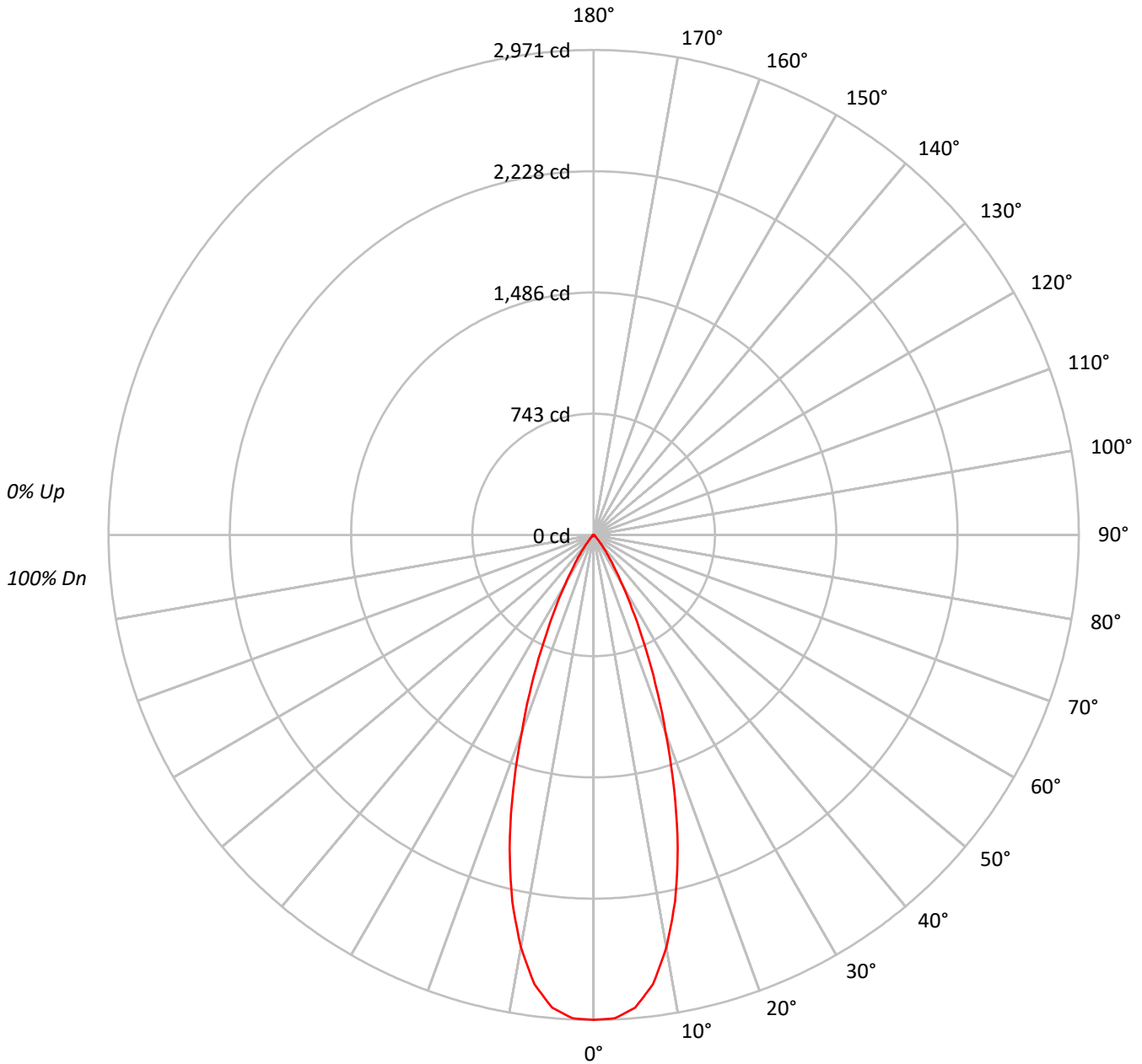
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	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	81	77	74	80	77	74	79	76	74	72	72	72	72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69	69	69	69
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67	67	67	67
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64	64	64	64

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

	0°
0°	1150805
5°	1130783
10°	1008751
15°	797368
20°	531662
25°	308447
30°	154397
35°	72632
40°	28417
45°	12654
50°	5966
55°	3377
60°	1317
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.6	21.0
10°-20°	538.2	42.3
20°-30°	338.6	26.6
30°-40°	103.5	8.1
40°-50°	20.3	1.6
50°-60°	4.6	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°	1143.3	89.9
0°-40°	1246.8	98.0
0°-60°	1271.7	100.0
0°-90°	1271.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2971	
5°	2908	267
15°	1988	538
25°	722	339
35°	154	104
45°	23	20
55°	5	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2971.0
2.5°	2964.4
5°	2908.2
7.5°	2776.1
10°	2564.7
12.5°	2300.5
15°	1988.4
17.5°	1641.6
20°	1289.8
22.5°	989.2
25°	721.7
27.5°	508.7
30°	345.2
32.5°	232.9
35°	153.6
37.5°	94.1
40°	56.2
42.5°	36.3
45°	23.1
47.5°	14.9
50°	9.9
52.5°	6.6
55°	5.0
57.5°	3.3
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)