

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: P225507

Luminaire Tested: **LSR2B05FL409030D010 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B05FL409030D010 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 580.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

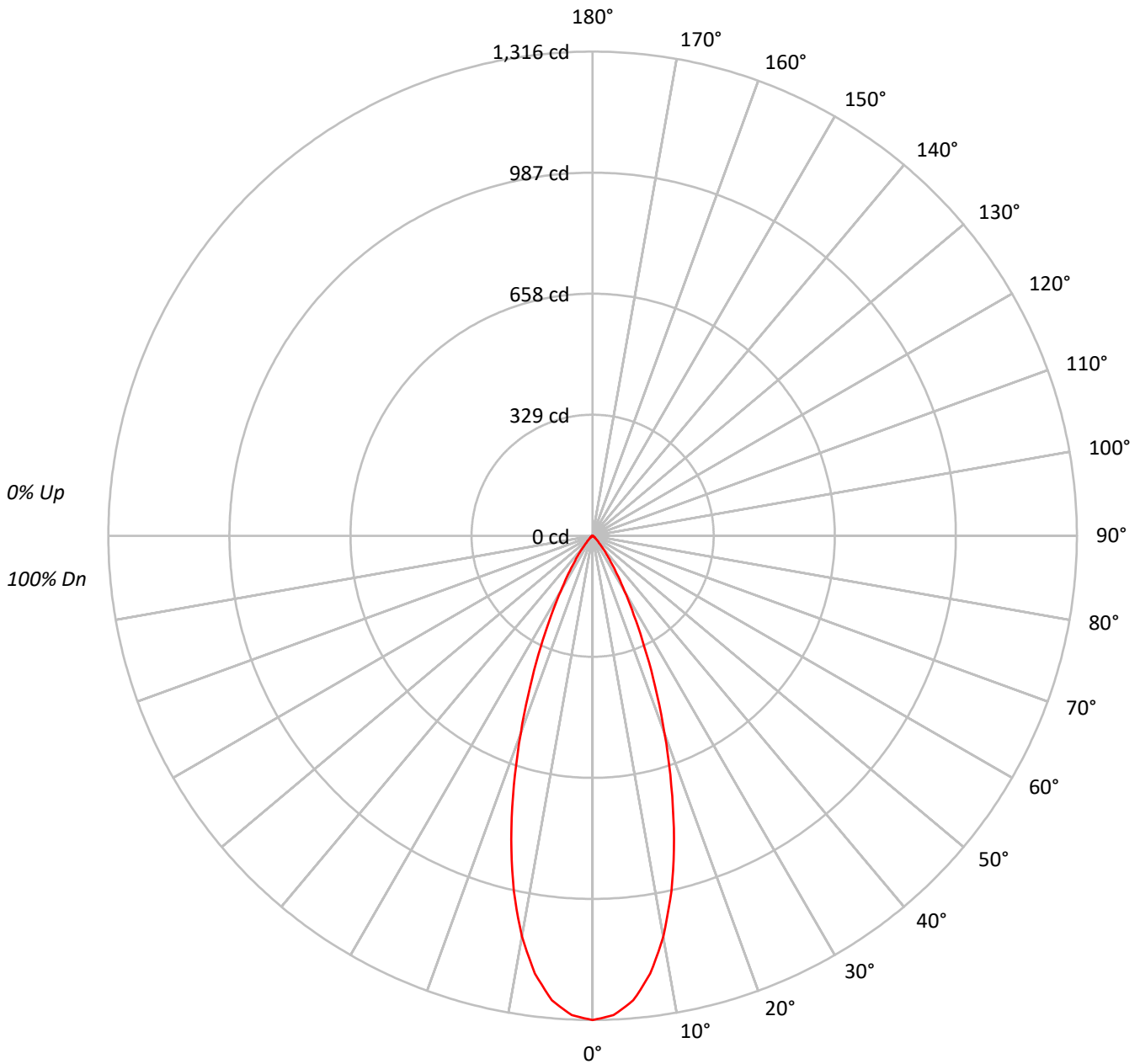
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									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	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	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																												
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86																												
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82																												
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78																												
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74																												
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71																												
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68																												
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65																												
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62																												

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

	0°
0°	509864
5°	492875
10°	434895
15°	342623
20°	235451
25°	142192
30°	77064
35°	39626
40°	19366
45°	9203
50°	4821
55°	3242
60°	1859
65°	733
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	20.0
10°-20°	232.6	40.1
20°-30°	155.4	26.8
30°-40°	56.3	9.7
40°-50°	14.5	2.5
50°-60°	4.3	0.7
60°-70°	1.1	0.2
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°	503.8	86.9
0°-40°	560.1	96.6
0°-60°	579.0	99.8
0°-90°	580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1316	
5°	1268	116
15°	854	233
25°	333	155
35°	84	56
45°	17	15
55°	5	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1316.3
2.5°	1304.3
5°	1267.6
7.5°	1200.6
10°	1105.7
12.5°	989.2
15°	854.4
17.5°	710.8
20°	571.2
22.5°	442.7
25°	332.7
27.5°	242.5
30°	172.3
32.5°	121.3
35°	83.8
37.5°	58.2
40°	38.3
42.5°	24.7
45°	16.8
47.5°	12.0
50°	8.0
52.5°	6.4
55°	4.8
57.5°	3.2
60°	2.4
62.5°	1.6
65°	0.8
67.5°	0.8
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)