

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: P224905

Luminaire Tested: **LSR2B05FL409027D010 2LBD\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224905  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B05FL409027D010 2LBD\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 592.0 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

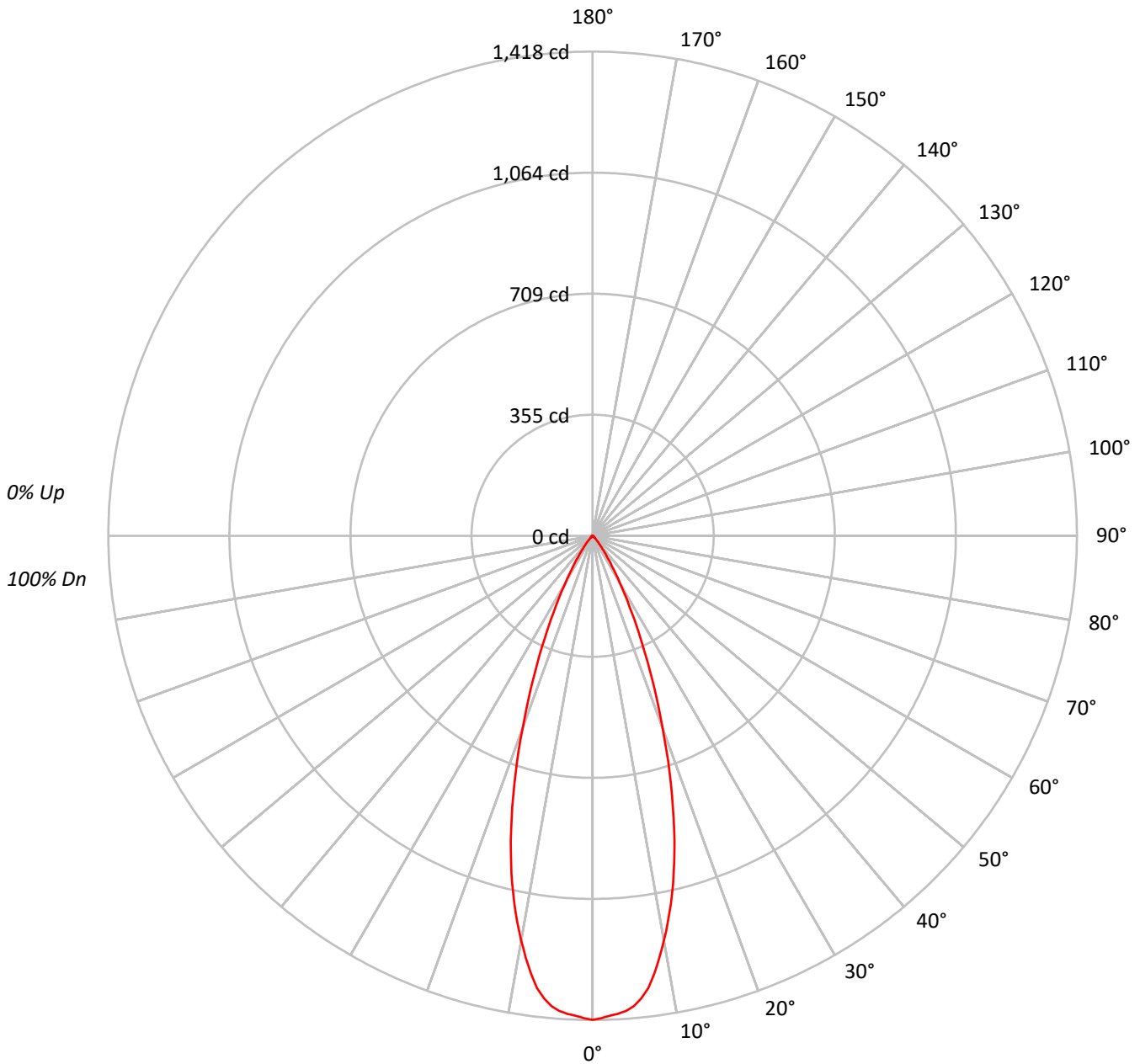
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	549102
5°	537590
10°	473480
15°	371456
20°	246705
25°	141594
30°	71026
35°	32817
40°	13349
45°	5971
50°	3134
55°	1958
60°	852
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	21.3
10°-20°	250.7	42.4
20°-30°	155.8	26.3
30°-40°	47.0	7.9
40°-50°	9.6	1.6
50°-60°	2.5	0.4
60°-70°	0.1	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°	532.8	90.0
0°-40°	579.8	97.9
0°-60°	591.9	100.0
0°-90°	592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1418	
5°	1383	126
15°	926	251
25°	331	156
35°	69	47
45°	11	10
55°	3	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1417.6
1°	1413.0
2°	1406.7
3°	1402.1
4°	1395.2
5°	1382.6
6°	1362.6
7°	1335.1
8°	1295.5
9°	1250.8
10°	1203.8
11°	1153.9
12°	1101.8
13°	1047.3
14°	987.7
15°	926.3
17.5°	761.8
20°	598.5
22.5°	454.0
25°	331.3
27.5°	233.9
30°	158.8
32.5°	104.3
35°	69.4
37.5°	43.0
40°	26.4
42.5°	17.2
45°	10.9
47.5°	6.9
50°	5.2
52.5°	3.4
55°	2.9
57.5°	1.7
60°	1.1
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



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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)