

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: P224711

Luminaire Tested: **LSR2B05FL409030D010 2LBD\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B05FL409030D010 2LBD\*MW  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
SPUN ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 617.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

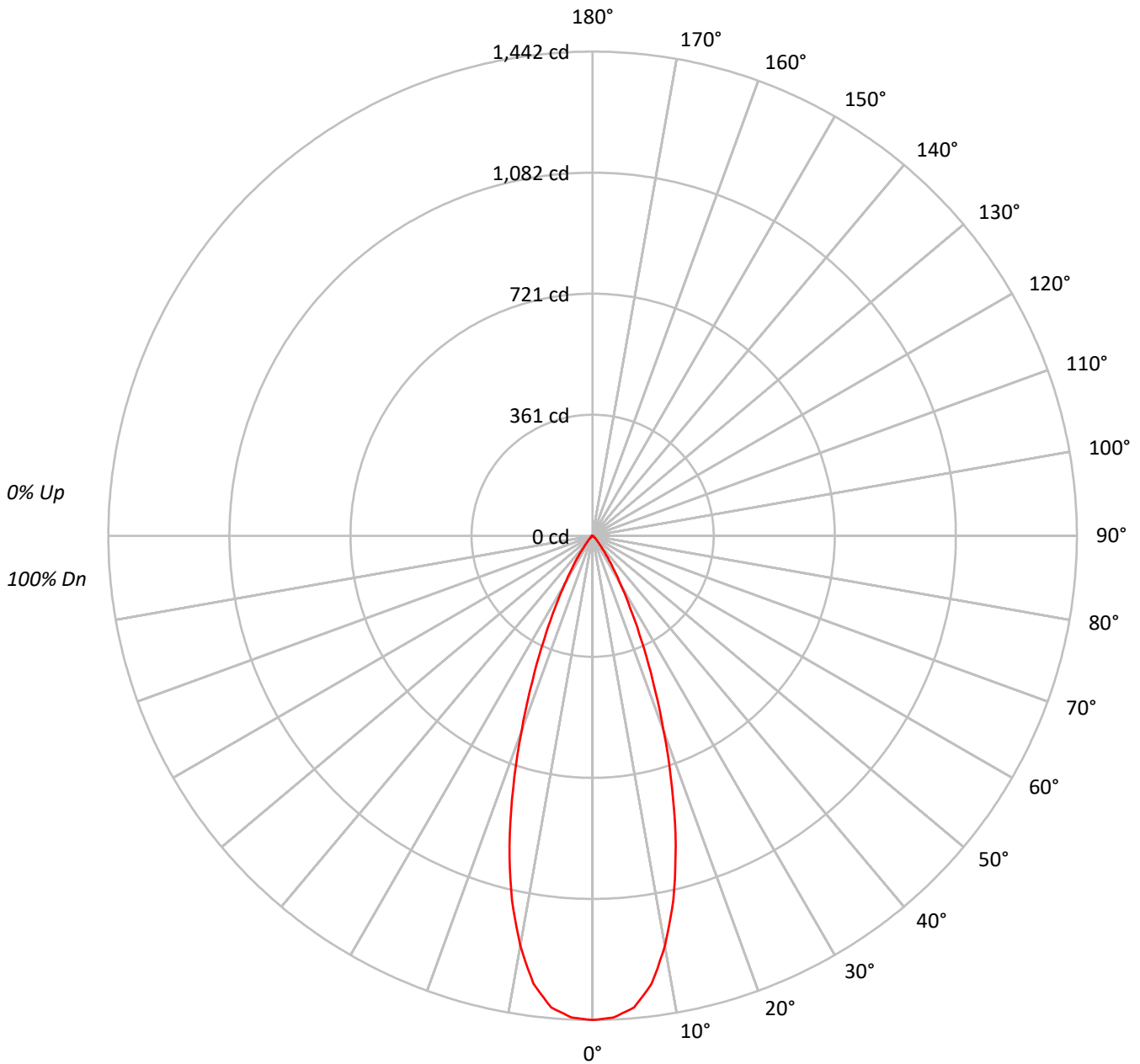
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86		
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82		
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79		
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75		
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72		
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69		
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66		
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64		

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

	0°
0°	558592
5°	548400
10°	487483
15°	383406
20°	255114
25°	146466
30°	73978
35°	34803
40°	14006
45°	6957
50°	3796
55°	2701
60°	2479
65°	1466
70°	1812
75°	1197
80°	1785
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.2	20.9
10°-20°	259.0	42.0
20°-30°	161.1	26.1
30°-40°	49.5	8.0
40°-50°	10.9	1.8
50°-60°	3.9	0.6
60°-70°	2.0	0.3
70°-80°	1.2	0.2
80°-90°	0.3	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°	549.3	89.0
0°-40°	598.8	97.0
0°-60°	613.6	99.4
0°-90°	617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1442	
5°	1410	129
15°	956	259
25°	343	161
35°	74	50
45°	13	11
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1442.1
2.5°	1435.7
5°	1410.4
7.5°	1346.3
10°	1239.4
12.5°	1111.2
15°	956.1
17.5°	786.7
20°	618.9
22.5°	469.3
25°	342.7
27.5°	241.4
30°	165.4
32.5°	111.6
35°	73.6
37.5°	44.3
40°	27.7
42.5°	19.0
45°	12.7
47.5°	8.7
50°	6.3
52.5°	5.5
55°	4.0
57.5°	3.2
60°	3.2
62.5°	2.4
65°	1.6
67.5°	1.6
70°	1.6
72.5°	1.6
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)