

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: P223900

Luminaire Tested: **LSR2B05SP159027D010 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B05SP159027D010 2LBDLC*MB
Description: 500 Lumen, 2inch Portfolio LED Cylinder
SPOT OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 313.0 lumens
Efficiency: N/A
Efficacy: 42.9 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

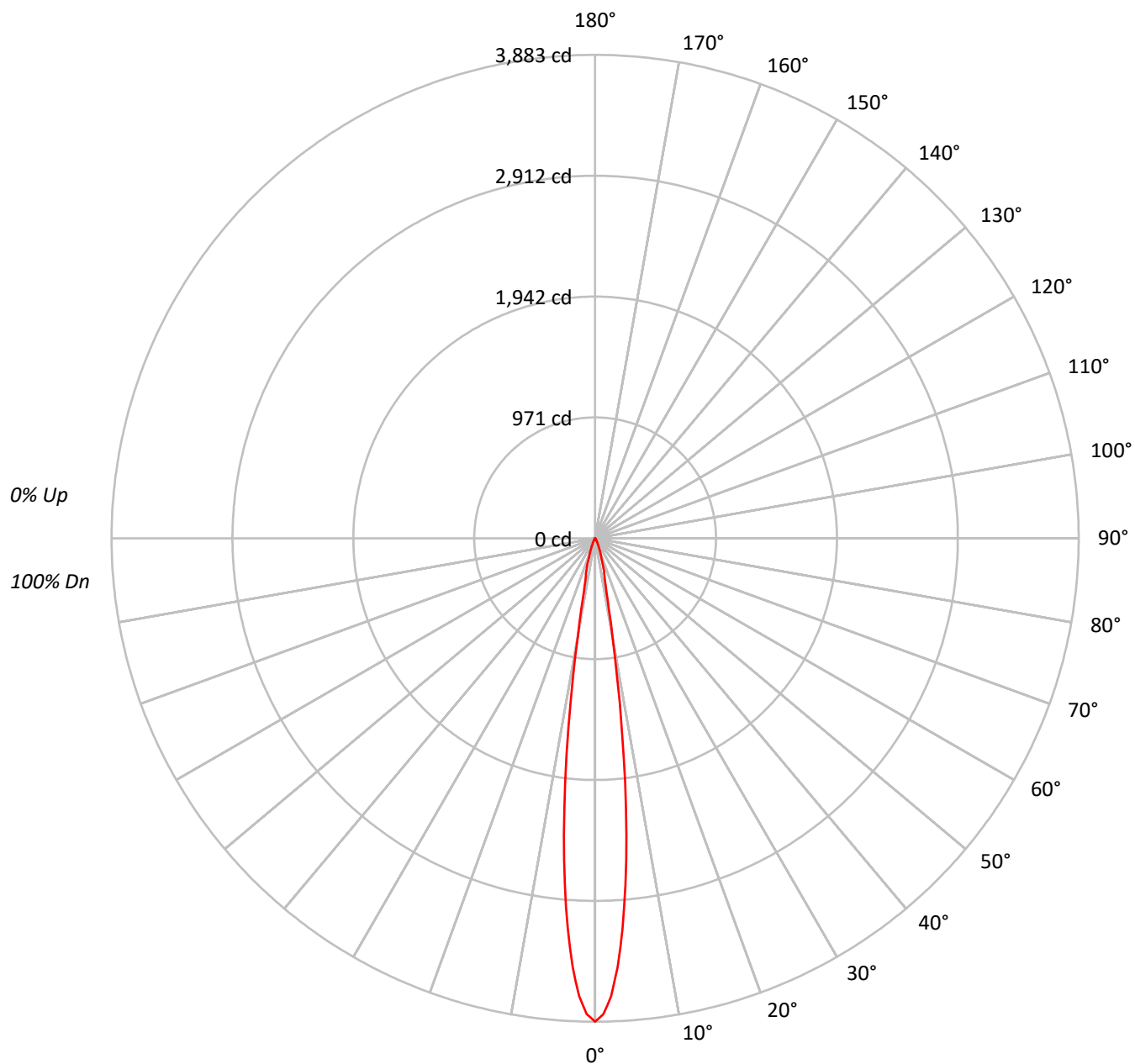
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98		
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96		
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94		
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93		
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91		
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90		
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88		
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87		
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86		
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1504026
5°	1087273
10°	316545
15°	111080
20°	47568
25°	21412
30°	8274
35°	4114
40°	2730
45°	1808
50°	964
55°	743
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	63.2
10°-20°	80.5	25.7
20°-30°	24.7	7.9
30°-40°	6.1	1.9
40°-50°	2.6	0.8
50°-60°	1.1	0.3
60°-70°	0.2	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°	303.1	96.8
0°-40°	309.2	98.8
0°-60°	312.8	99.9
0°-90°	313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	313.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3883	
5°	2796	198
15°	277	81
25°	50	25
35°	9	6
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3882.9
1°	3823.6
2°	3678.9
3°	3448.2
4°	3146.7
5°	2796.3
6°	2401.2
7°	1972.5
8°	1537.7
9°	1131.2
10°	804.8
11°	576.8
12°	433.7
13°	353.1
14°	309.1
15°	277.0
17.5°	170.9
20°	115.4
22.5°	77.3
25°	50.1
27.5°	30.5
30°	18.5
32.5°	12.0
35°	8.7
37.5°	7.1
40°	5.4
42.5°	4.4
45°	3.3
47.5°	2.2
50°	1.6
52.5°	1.6
55°	1.1
57.5°	1.1
60°	0.5
62.5°	0.5
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)