

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: P224643

Luminaire Tested: **LSR2B20FL409024D010 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409024D010 2LBDLC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1235.5 lumens
Efficiency: N/A
Efficacy: 59.1 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

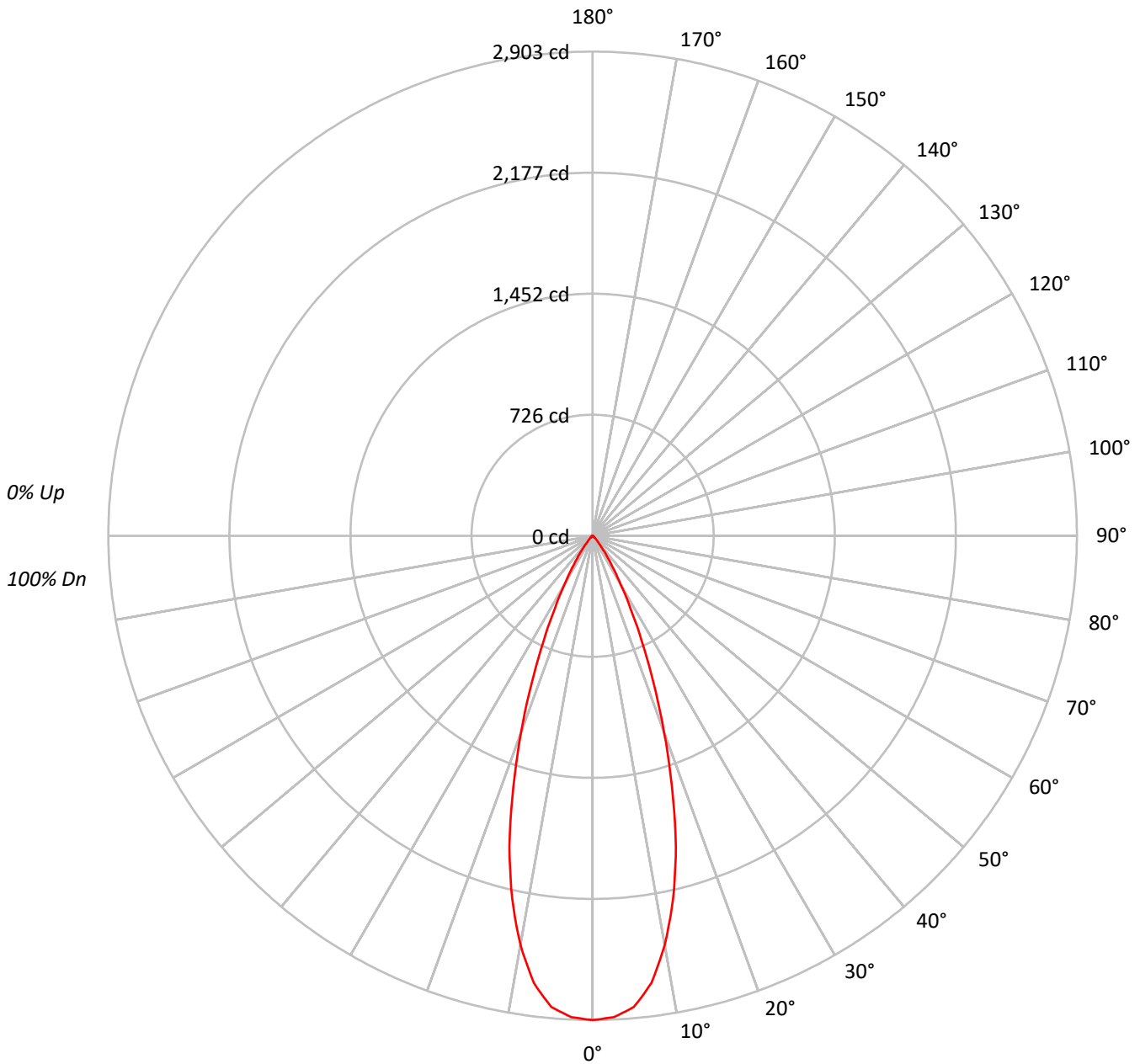
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224643

CATALOG NUMBER: LSR2B20FL409024D010 2LBDLC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P224643

CATALOG NUMBER: LSR2B20FL409024D010 2LBDLC*MMS

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	102	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	83	81	85	82	80	79	79	79	79
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76	76	76	76
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72	72	72	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69	69	69	69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1124620
5°	1103020
10°	979803
15°	773228
20°	515710
25°	296822
30°	150372
35°	70504
40°	28872
45°	13037
50°	6689
55°	4254
60°	2479
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224643

CATALOG NUMBER: LSR2B20FL409024D010 2LBDLC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	21.0
10°-20°	521.1	42.2
20°-30°	326.4	26.4
30°-40°	101.0	8.2
40°-50°	20.9	1.7
50°-60°	5.8	0.5
60°-70°	0.8	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°	1107.0	89.6
0°-40°	1208.1	97.8
0°-60°	1234.8	99.9
0°-90°	1235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2903	
5°	2837	260
15°	1928	521
25°	694	326
35°	149	101
45°	24	21
55°	6	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224643

CATALOG NUMBER: LSR2B20FL409024D010 2LBDLC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	2903.4
2.5°	2889.2
5°	2836.8
7.5°	2703.6
10°	2491.1
12.5°	2229.5
15°	1928.2
17.5°	1580.9
20°	1251.1
22.5°	951.4
25°	694.5
27.5°	488.4
30°	336.2
32.5°	225.2
35°	149.1
37.5°	93.6
40°	57.1
42.5°	36.5
45°	23.8
47.5°	15.9
50°	11.1
52.5°	7.9
55°	6.3
57.5°	4.8
60°	3.2
62.5°	1.6
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)