

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: P224851

Luminaire Tested: **LSR2B20FL409050D010 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409050D010 2LBDL*B
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1509.3 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

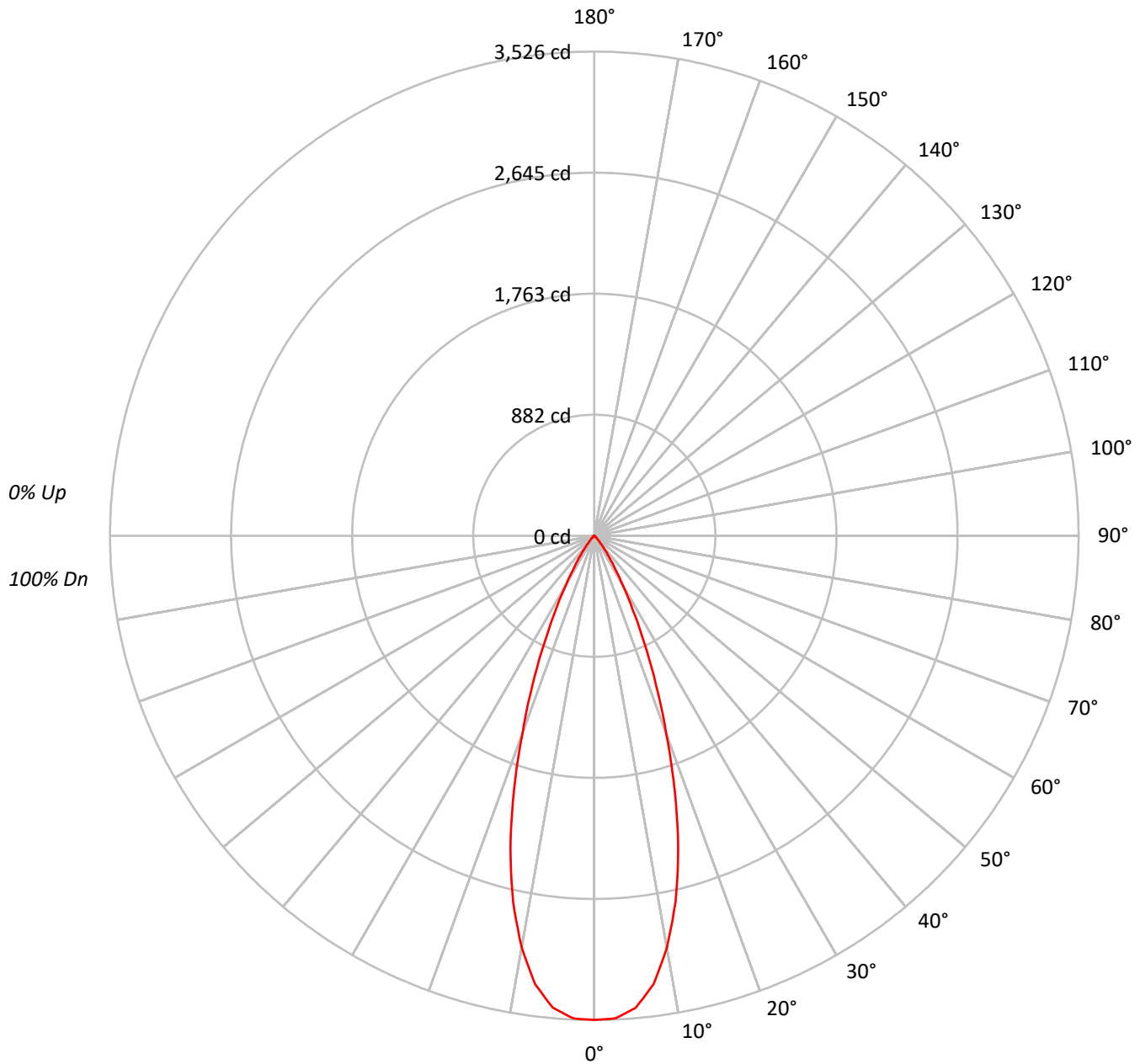
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224851

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*B

Luminous Intensity Polar Plot





TEST NUMBER: P224851

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*B

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	104	103		102	101	100		99	98	97
2	110	106	103	100		108	104	101	99		101	99	96		98	96	94		96	94	92
3	106	100	96	93		104	99	95	92		97	93	91		94	92	89		92	90	88
4	102	95	91	87		100	94	90	87		92	89	86		90	87	85		89	86	84
5	98	91	86	83		96	90	86	82		88	85	82		87	84	81		85	83	80
6	94	87	82	79		93	86	82	78		85	81	78		84	80	77		82	79	77
7	91	83	78	75		90	83	78	75		81	77	74		80	77	74		79	76	74
8	87	80	75	72		86	79	75	71		78	74	71		77	74	71		76	73	71
9	84	77	72	69		83	76	72	68		75	71	68		74	71	68		74	70	68
10	82	74	69	66		81	73	69	66		73	68	65		72	68	65		71	68	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1365588
5°	1341876
10°	1197074
15°	946183
20°	630880
25°	366016
30°	183201
35°	86203
40°	33676
45°	15009
50°	7111
55°	3984
60°	1549
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224851

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	21.0
10°-20°	638.7	42.3
20°-30°	401.7	26.6
30°-40°	122.8	8.1
40°-50°	24.1	1.6
50°-60°	5.4	0.4
60°-70°	0.2	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°	1356.7	89.9
0°-40°	1479.6	98.0
0°-60°	1509.1	100.0
0°-90°	1509.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3526	
5°	3451	316
15°	2360	639
25°	856	402
35°	182	123
45°	27	24
55°	6	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224851

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*B

CANDELA DISTRIBUTION (FULL):

0°	
0°	3525.5
2.5°	3517.7
5°	3451.1
7.5°	3294.3
10°	3043.5
12.5°	2729.9
15°	2359.5
17.5°	1948.0
20°	1530.5
22.5°	1173.9
25°	856.4
27.5°	603.6
30°	409.6
32.5°	276.3
35°	182.3
37.5°	111.7
40°	66.6
42.5°	43.1
45°	27.4
47.5°	17.6
50°	11.8
52.5°	7.8
55°	5.9
57.5°	3.9
60°	2.0
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)