

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: P224991

Luminaire Tested: **LSR2B20FL409040D010 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409040D010 2LBDL*LI
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1502.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

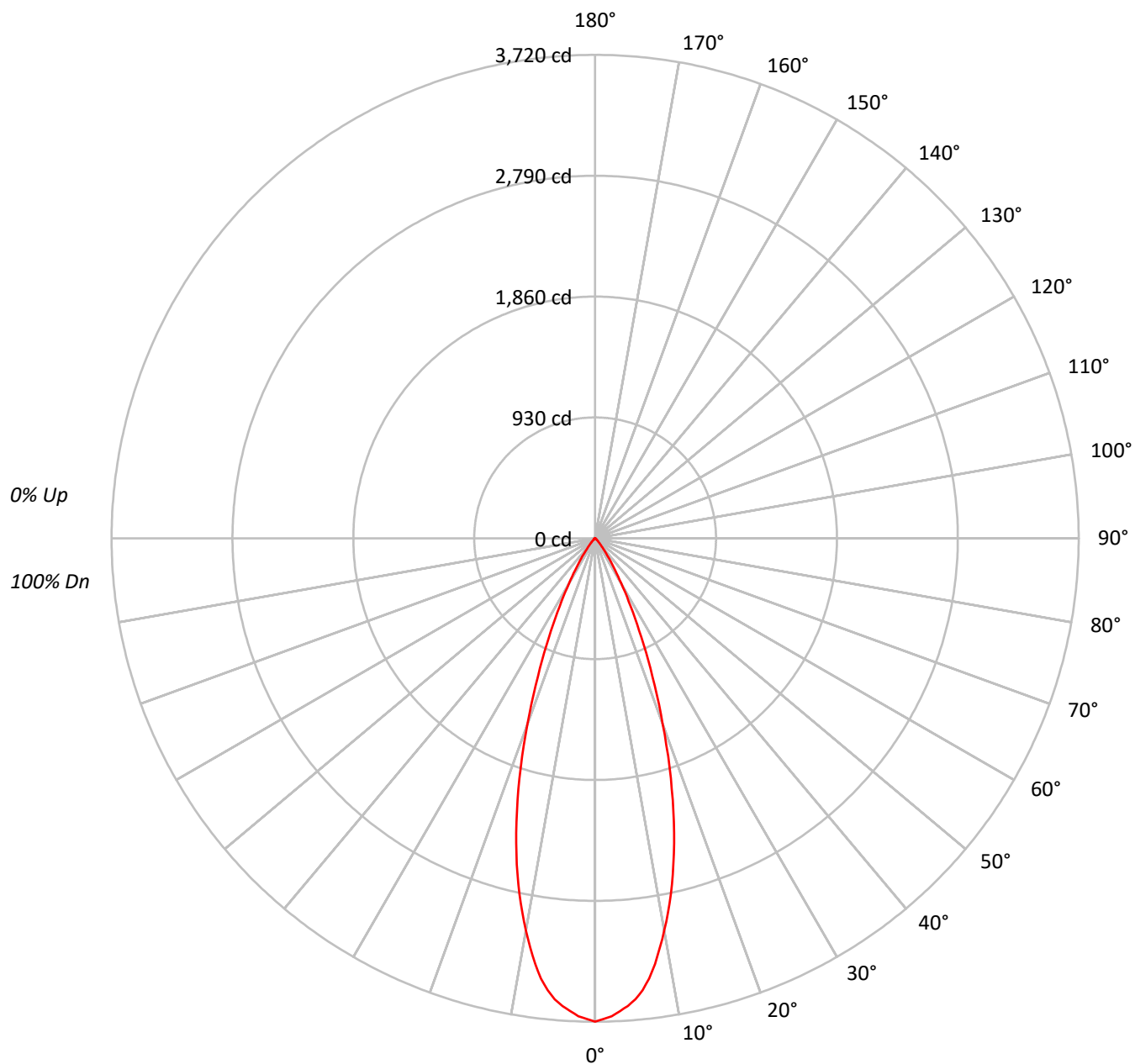
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224991

CATALOG NUMBER: LSR2B20FL409040D010 2LBDL*LI

Luminous Intensity Polar Plot





TEST NUMBER: P224991

CATALOG NUMBER: LSR2B20FL409040D010 2LBDL*LI

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108	112	110	108	106		106	105	103			102	101	100			99
2	110	106	103	100	108	104	101	99		101	99	97			98	96	95			96
3	106	101	96	93	104	99	95	92		97	94	91			94	92	90			92
4	102	96	91	88	100	95	90	87		93	89	86			91	88	85			89
5	98	91	86	83	97	90	86	83		89	85	82			87	84	81			86
6	94	87	82	79	93	86	82	79		85	81	78			84	80	78			83
7	91	83	79	75	90	83	78	75		82	78	75			81	77	74			80
8	88	80	75	72	87	80	75	72		79	74	71			78	74	71			77
9	85	77	72	69	84	76	72	69		76	71	69			75	71	68			74
10	82	74	69	66	81	74	69	66		73	69	66			72	68	66			72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1440811
5°	1384569
10°	1205294
15°	941171
20°	625933
25°	358408
30°	178192
35°	81900
40°	32867
45°	15009
50°	6930
55°	3917
60°	2247
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224991

CATALOG NUMBER: LSR2B20FL409040D010 2LBDL*LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	21.6
10°-20°	636.4	42.4
20°-30°	393.9	26.2
30°-40°	117.9	7.8
40°-50°	23.6	1.6
50°-60°	5.8	0.4
60°-70°	0.3	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°	1354.4	90.2
0°-40°	1472.3	98.0
0°-60°	1501.7	100.0
0°-90°	1502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1502.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3720	
5°	3561	324
15°	2347	636
25°	839	394
35°	173	118
45°	27	24
55°	6	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224991

CATALOG NUMBER: LSR2B20FL409040D010 2LBDL*LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3719.7
1°	3699.5
2°	3680.7
3°	3643.2
4°	3608.5
5°	3560.9
6°	3496.0
7°	3413.7
8°	3308.3
9°	3188.5
10°	3064.4
11°	2935.9
12°	2798.8
13°	2655.9
14°	2502.9
15°	2347.0
17.5°	1935.6
20°	1518.5
22.5°	1149.0
25°	838.6
27.5°	588.9
30°	398.4
32.5°	262.7
35°	173.2
37.5°	108.3
40°	65.0
42.5°	41.9
45°	27.4
47.5°	17.3
50°	11.5
52.5°	8.7
55°	5.8
57.5°	4.3
60°	2.9
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



TEST NUMBER: P224991

CATALOG NUMBER: LSR2B20FL409040D010 2LBDL*LI

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)