

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: P224933

Luminaire Tested: **LSR2B20FL409730D010 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409730D010 2LBD*H
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1373.7 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

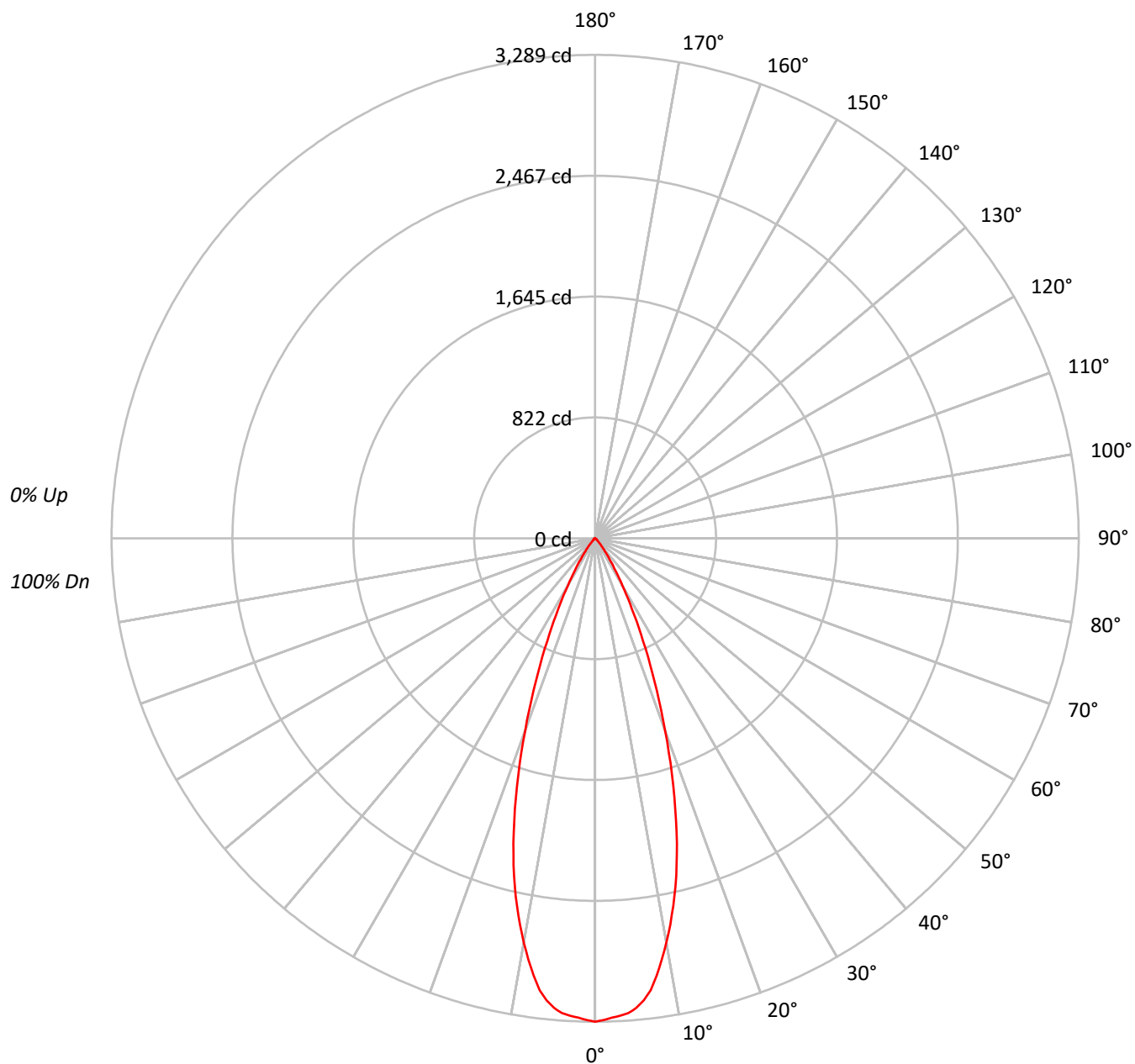
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224933

CATALOG NUMBER: LSR2B20FL409730D010 2LBD*H

Luminous Intensity Polar Plot





TEST NUMBER: P224933

CATALOG NUMBER: LSR2B20FL409730D010 2LBD*H

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	97		98	96	94		96	94	93
3	106	100	96	93		104	99	95	92		97	94	91		94	92	90		92	90	88
4	102	96	91	88		100	94	90	87		92	89	86		91	88	85		89	86	84
5	98	91	86	83		96	90	86	82		89	85	82		87	84	81		86	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		82	77	74		80	77	74		79	76	74
8	88	80	75	72		87	79	75	72		78	74	71		77	74	71		77	73	71
9	85	77	72	69		84	76	72	69		75	71	68		75	71	68		74	70	68
10	82	74	69	66		81	73	69	66		73	69	66		72	68	66		71	68	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1274058
5°	1247391
10°	1098586
15°	861931
20°	572388
25°	328577
30°	164774
35°	76084
40°	30945
45°	13859
50°	7231
55°	4525
60°	2092
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224933

CATALOG NUMBER: LSR2B20FL409730D010 2LBD*H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	21.3
10°-20°	581.8	42.4
20°-30°	361.5	26.3
30°-40°	109.0	7.9
40°-50°	22.3	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°	1236.2	90.0
0°-40°	1345.3	97.9
0°-60°	1373.3	100.0
0°-90°	1373.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3289	
5°	3208	293
15°	2149	582
25°	769	361
35°	161	109
45°	25	22
55°	7	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224933

CATALOG NUMBER: LSR2B20FL409730D010 2LBD*H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3289.2
1°	3278.6
2°	3264.0
3°	3253.3
4°	3237.4
5°	3208.1
6°	3161.5
7°	3097.7
8°	3005.9
9°	2902.2
10°	2793.1
11°	2677.4
12°	2556.4
13°	2430.0
14°	2291.7
15°	2149.4
17.5°	1767.6
20°	1388.6
22.5°	1053.4
25°	768.8
27.5°	542.7
30°	368.4
32.5°	242.1
35°	160.9
37.5°	99.8
40°	61.2
42.5°	39.9
45°	25.3
47.5°	16.0
50°	12.0
52.5°	8.0
55°	6.7
57.5°	4.0
60°	2.7
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: P224933

CATALOG NUMBER: LSR2B20FL409730D010 2LBD*H

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)