

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: P224928

Luminaire Tested: **LSR2B20FL409030D010 2LBD*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224928
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: LSR2B20FL409030D010 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: 1497.2 lumens
Efficiency: N/A
Efficacy: 71.6 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

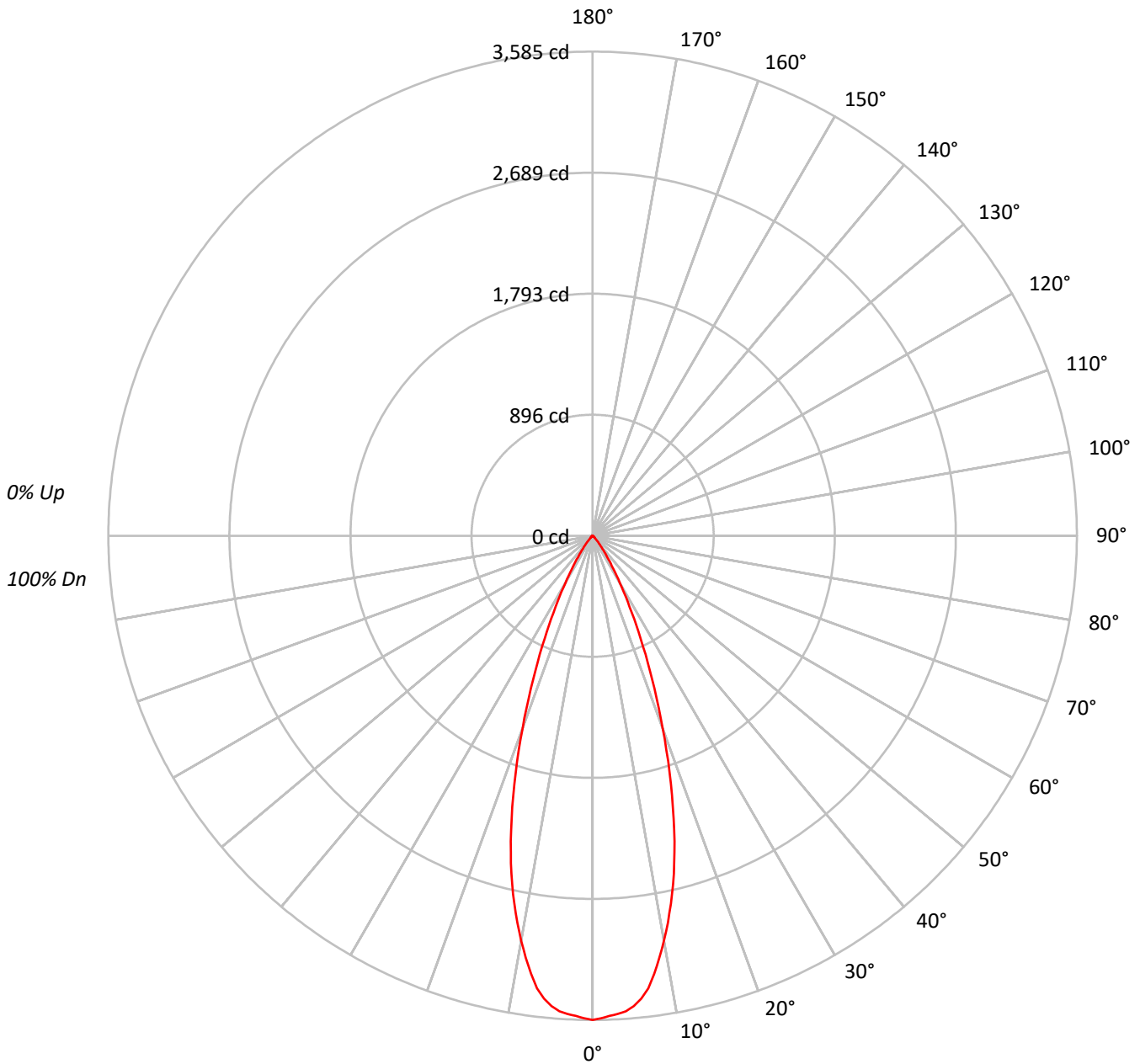
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224928

CATALOG NUMBER: LSR2B20FL409030D010 2LBD*H

Luminous Intensity Polar Plot





TEST NUMBER: P224928

CATALOG NUMBER: LSR2B20FL409030D010 2LBD*H

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	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91	91	91	91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87	87	87	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	86	83	80	79	79	79	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73	73	73	73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67	67	67	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1388713
5°	1359645
10°	1197428
15°	939486
20°	623872
25°	358109
30°	179623
35°	82940
40°	33726
45°	15064
50°	7834
55°	4862
60°	2247
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224928

CATALOG NUMBER: LSR2B20FL409030D010 2LBD*H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	21.3
10°-20°	634.1	42.4
20°-30°	394.0	26.3
30°-40°	118.8	7.9
40°-50°	24.3	1.6
50°-60°	6.2	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°	1347.5	90.0
0°-40°	1466.3	97.9
0°-60°	1496.8	100.0
0°-90°	1497.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3585	
5°	3497	319
15°	2343	634
25°	838	394
35°	175	119
45°	28	24
55°	7	6
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224928

CATALOG NUMBER: LSR2B20FL409030D010 2LBD*H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3585.2
1°	3573.6
2°	3557.7
3°	3546.1
4°	3528.7
5°	3496.8
6°	3446.0
7°	3376.4
8°	3276.4
9°	3163.3
10°	3044.4
11°	2918.3
12°	2786.4
13°	2648.7
14°	2497.9
15°	2342.8
17.5°	1926.7
20°	1513.5
22.5°	1148.2
25°	837.9
27.5°	591.5
30°	401.6
32.5°	263.9
35°	175.4
37.5°	108.7
40°	66.7
42.5°	43.5
45°	27.5
47.5°	17.4
50°	13.0
52.5°	8.7
55°	7.2
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: P224928

CATALOG NUMBER: LSR2B20FL409030D010 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)