

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: P224885

Luminaire Tested: **LSR2B20FL409027D010 2LBD*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224885
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: LSR2B20FL409027D010 2LBD*B
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.8 lumens
Efficiency: N/A
Efficacy: 67.7 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

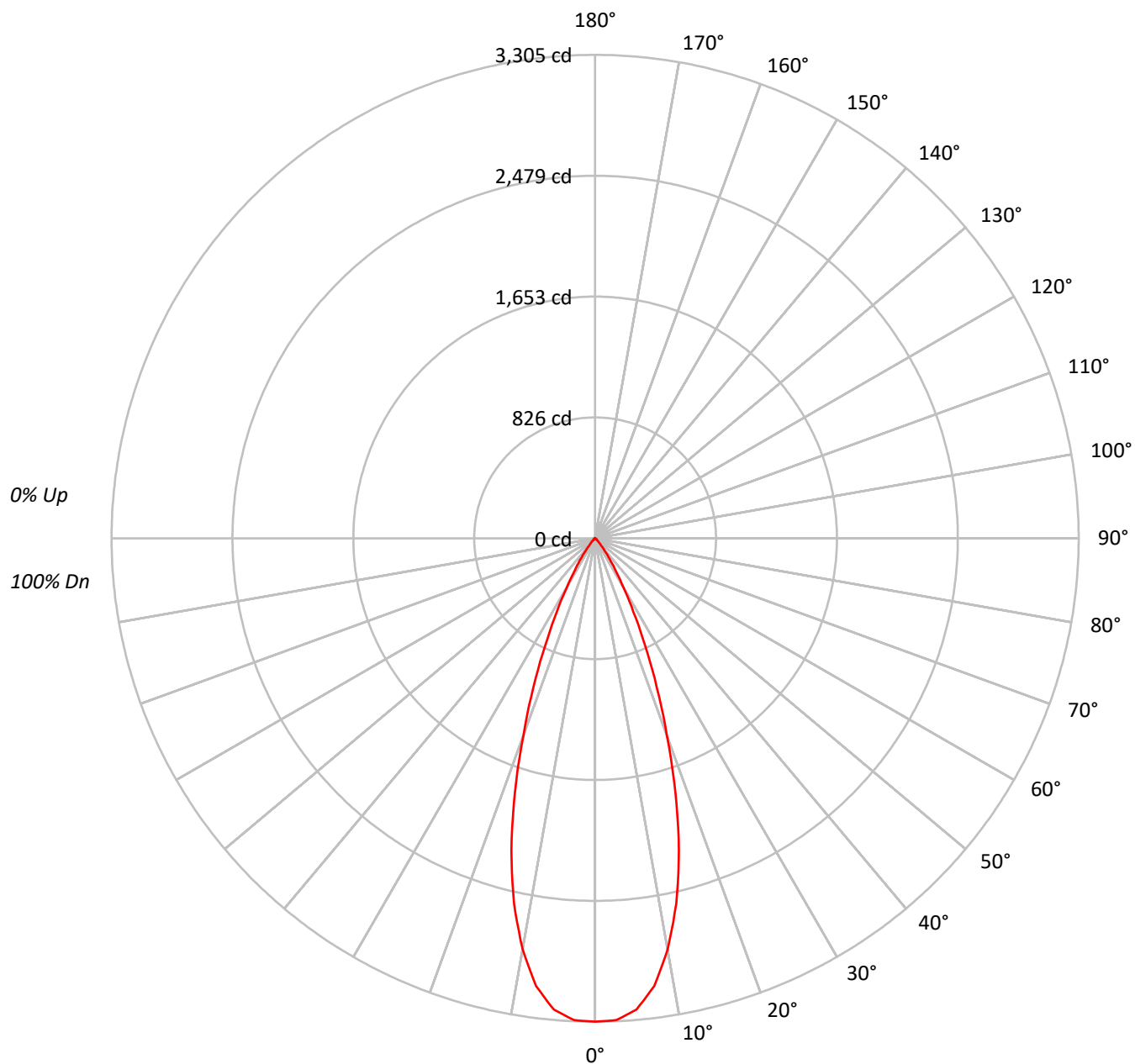
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224885

CATALOG NUMBER: LSR2B20FL409027D010 2LBD*B

Luminous Intensity Polar Plot





TEST NUMBER: P224885

CATALOG NUMBER: LSR2B20FL409027D010 2LBD*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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	110	106	103	100		108	104	101	99		101	99	96			98	96	94			91
3	106	100	96	93		104	99	95	92		97	93	91			94	92	89			87
4	102	95	91	87		100	94	90	87		92	89	86			90	87	85			83
5	98	91	86	83		96	90	86	82		88	85	82			87	84	81			79
6	94	87	82	79		93	86	82	78		85	81	78			84	80	77			76
7	91	83	78	75		90	83	78	75		81	77	74			80	77	74			72
8	87	80	75	72		86	79	75	71		78	74	71			77	74	71			69
9	84	77	72	69		83	76	72	68		75	71	68			74	71	68			67
10	82	74	69	66		81	73	69	66		73	68	65			72	68	65			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1280101
5°	1257851
10°	1122107
15°	886954
20°	591391
25°	343108
30°	171706
35°	80765
40°	31603
45°	14078
50°	6629
55°	3714
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224885

CATALOG NUMBER: LSR2B20FL409027D010 2LBD*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	21.0
10°-20°	598.7	42.3
20°-30°	376.6	26.6
30°-40°	115.1	8.1
40°-50°	22.6	1.6
50°-60°	5.1	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°	1271.8	89.9
0°-40°	1386.9	98.0
0°-60°	1414.5	100.0
0°-90°	1414.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3305	
5°	3235	297
15°	2212	599
25°	803	377
35°	171	115
45°	26	23
55°	6	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224885

CATALOG NUMBER: LSR2B20FL409027D010 2LBD*B

CANDELA DISTRIBUTION (FULL):

0°	
0°	3304.8
2.5°	3297.5
5°	3235.0
7.5°	3088.0
10°	2852.9
12.5°	2559.0
15°	2211.8
17.5°	1826.0
20°	1434.7
22.5°	1100.4
25°	802.8
27.5°	565.8
30°	383.9
32.5°	259.0
35°	170.8
37.5°	104.7
40°	62.5
42.5°	40.4
45°	25.7
47.5°	16.5
50°	11.0
52.5°	7.3
55°	5.5
57.5°	3.7
60°	1.8
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)