

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: P224740

Luminaire Tested: **LSR2B20FL408035D010 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL408035D010 2LBD*MW
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1872.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

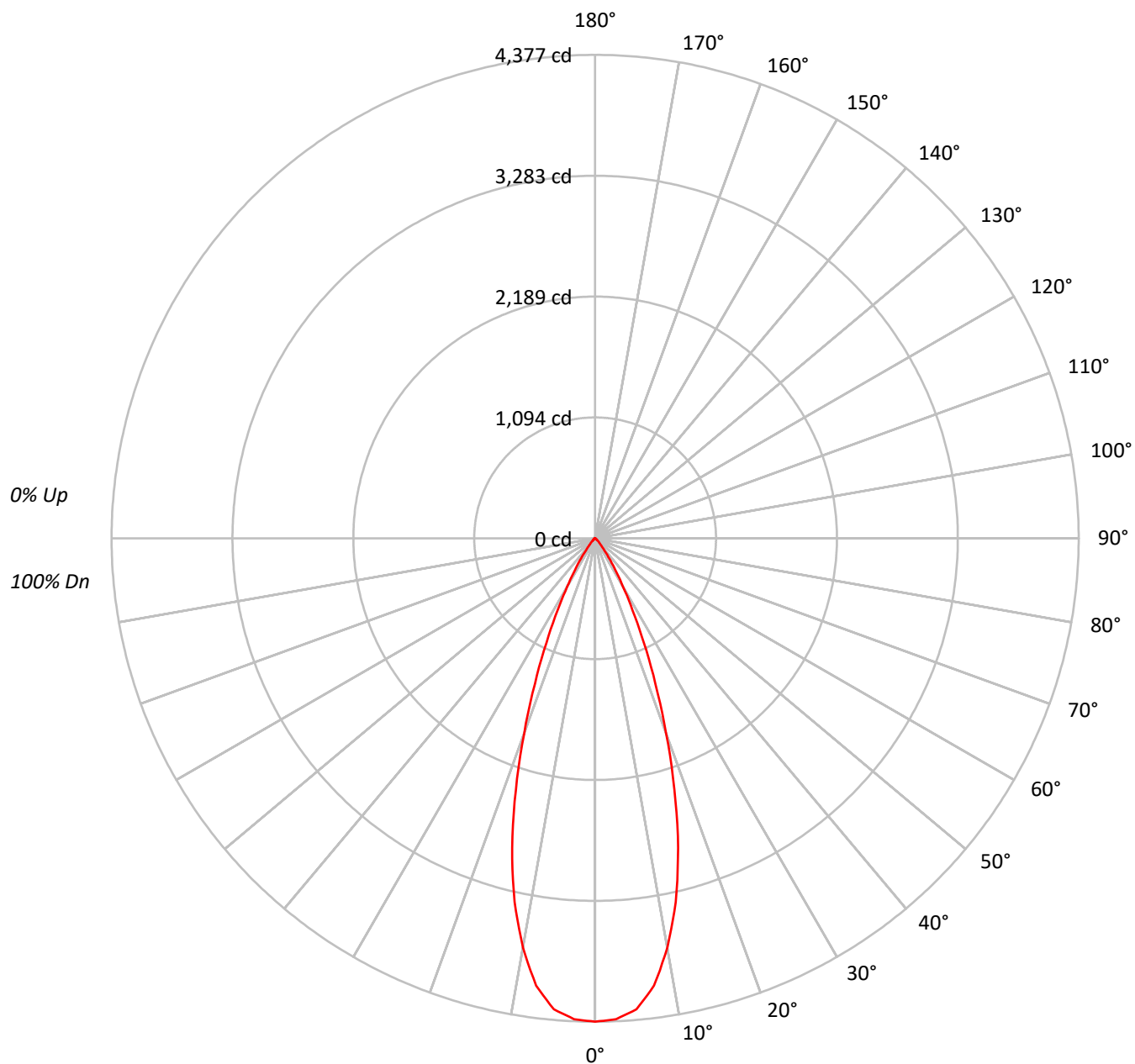
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224740

CATALOG NUMBER: LSR2B20FL408035D010 2LBD*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224740

CATALOG NUMBER: LSR2B20FL408035D010 2LBD*MW

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	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	105	100	96	93	104	99	95	92	96	93	90		94	91	89		92
4	101	95	90	87	100	94	90	86	92	88	85		90	87	85		88
5	98	91	86	82	96	90	85	82	88	84	81		86	83	80		85
6	94	86	82	78	93	86	81	78	84	80	77		83	79	77		82
7	90	83	78	74	89	82	77	74	81	77	74		80	76	73		79
8	87	79	74	71	86	79	74	71	78	74	71		77	73	70		76
9	84	76	71	68	83	76	71	68	75	71	68		74	70	67		73
10	81	73	68	65	80	73	68	65	72	68	65		71	68	65		71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1695375
5°	1664485
10°	1479636
15°	1163691
20°	774368
25°	444570
30°	224574
35°	105637
40°	42525
45°	21035
50°	11570
55°	8104
60°	7437
65°	4399
70°	5436
75°	3592
80°	5354
85°	0



TEST NUMBER: P224740

CATALOG NUMBER: LSR2B20FL408035D010 2LBD*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	20.9
10°-20°	786.1	42.0
20°-30°	489.0	26.1
30°-40°	150.4	8.0
40°-50°	33.0	1.8
50°-60°	11.7	0.6
60°-70°	5.9	0.3
70°-80°	3.5	0.2
80°-90°	1.0	0.1
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°	1667.2	89.0
0°-40°	1817.5	97.1
0°-60°	1862.3	99.4
0°-90°	1872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4377	
5°	4281	392
15°	2902	786
25°	1040	489
35°	223	150
45°	38	33
55°	12	12
65°	5	6
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P224740

CATALOG NUMBER: LSR2B20FL408035D010 2LBD*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4376.9
2.5°	4357.7
5°	4280.8
7.5°	4086.2
10°	3761.9
12.5°	3372.8
15°	2901.9
17.5°	2387.8
20°	1878.6
22.5°	1424.5
25°	1040.2
27.5°	732.7
30°	502.1
32.5°	338.7
35°	223.4
37.5°	134.5
40°	84.1
42.5°	57.7
45°	38.4
47.5°	26.4
50°	19.2
52.5°	16.8
55°	12.0
57.5°	9.6
60°	9.6
62.5°	7.2
65°	4.8
67.5°	4.8
70°	4.8
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)