

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: P224742

Luminaire Tested: **LSR2B20FL408050D010 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224742
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: LSR2B20FL408050D010 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: 1938.1 lumens
Efficiency: N/A
Efficacy: 92.7 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

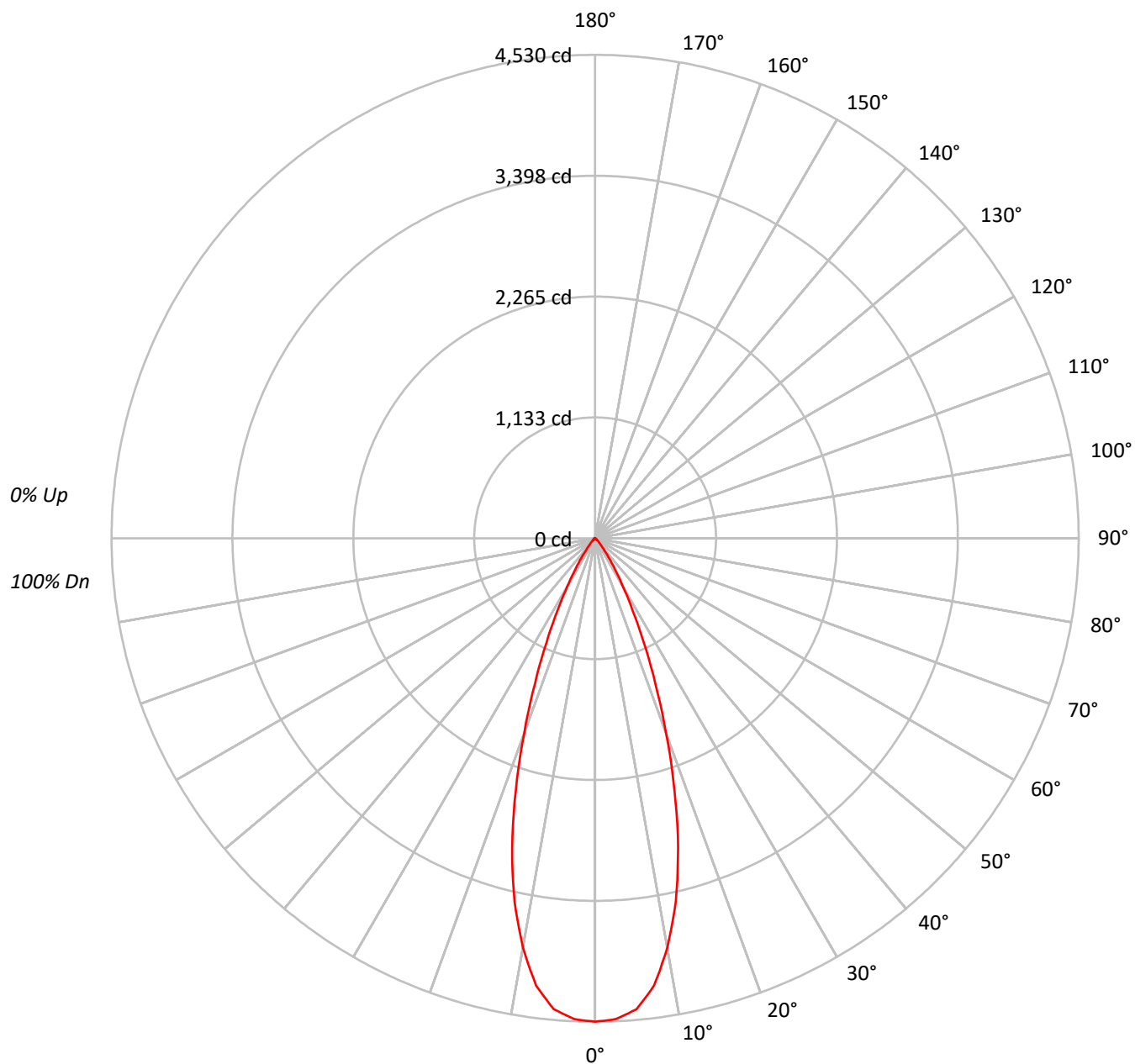
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224742

CATALOG NUMBER: LSR2B20FL408050D010 2LBD*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224742

CATALOG NUMBER: LSR2B20FL408050D010 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	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	102	99		108	104	101	98		101	98	96		98	96	94		95	94	92
3	105	100	96	93		104	99	95	92		96	93	90		94	91	89		92	90	88
4	101	95	90	87		100	94	90	86		92	88	85		90	87	85		88	86	84
5	98	91	86	82		96	90	85	82		88	84	81		86	83	80		85	82	80
6	94	86	82	78		93	86	81	78		84	80	77		83	79	77		82	79	76
7	90	83	78	74		89	82	77	74		81	77	74		80	76	73		79	76	73
8	87	79	74	71		86	79	74	71		78	74	71		77	73	70		76	73	70
9	84	76	71	68		83	76	71	68		75	71	68		74	70	67		73	70	67
10	81	73	68	65		80	73	68	65		72	68	65		71	68	65		71	67	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1754600
5°	1722614
10°	1531318
15°	1204354
20°	801409
25°	460084
30°	232401
35°	109326
40°	43991
45°	21802
50°	11992
55°	8374
60°	7669
65°	4583
70°	5663
75°	3741
80°	5577
85°	0



TEST NUMBER: P224742

CATALOG NUMBER: LSR2B20FL408050D010 2LBD*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	20.9
10°-20°	813.5	42.0
20°-30°	506.1	26.1
30°-40°	155.6	8.0
40°-50°	34.2	1.8
50°-60°	12.1	0.6
60°-70°	6.2	0.3
70°-80°	3.6	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°	1725.4	89.0
0°-40°	1881.0	97.1
0°-60°	1927.3	99.4
0°-90°	1938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4530	
5°	4430	406
15°	3003	814
25°	1076	506
35°	231	156
45°	40	34
55°	12	12
65°	5	6
75°	2	4
85°	0	1
90°	0	



TEST NUMBER: P224742

CATALOG NUMBER: LSR2B20FL408050D010 2LBD*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4529.8
2.5°	4509.9
5°	4430.3
7.5°	4228.9
10°	3893.3
12.5°	3490.5
15°	3003.3
17.5°	2471.2
20°	1944.2
22.5°	1474.3
25°	1076.5
27.5°	758.3
30°	519.6
32.5°	350.5
35°	231.2
37.5°	139.2
40°	87.0
42.5°	59.7
45°	39.8
47.5°	27.3
50°	19.9
52.5°	17.4
55°	12.4
57.5°	9.9
60°	9.9
62.5°	7.5
65°	5.0
67.5°	5.0
70°	5.0
72.5°	5.0
75°	2.5
77.5°	2.5
80°	2.5
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)