

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: P224524

Luminaire Tested: **LSR2B20FL409050D010 2LBDL*WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409050D010 2LBDL*WMH
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1569.1 lumens
Efficiency: N/A
Efficacy: 75.1 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

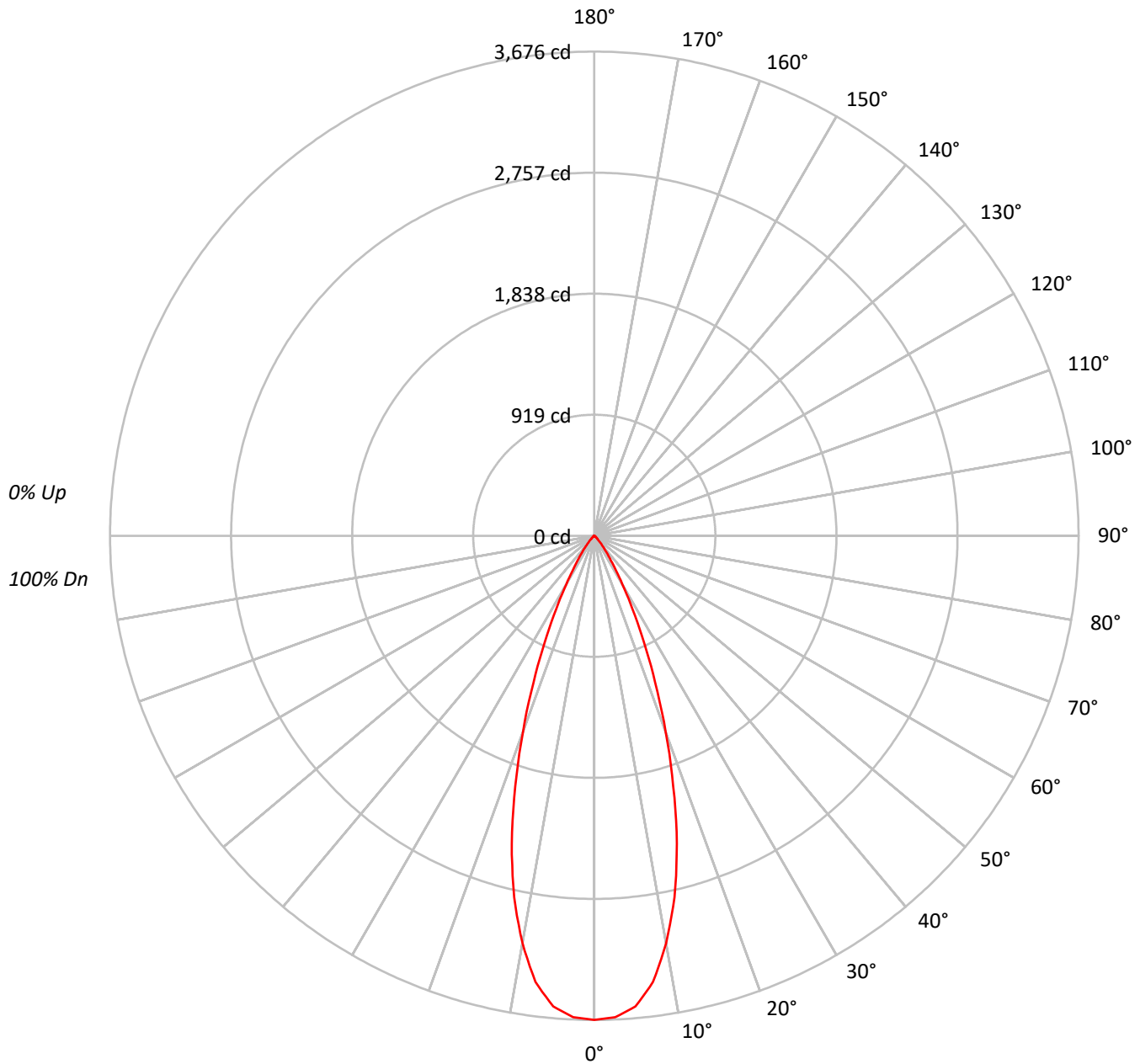
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224524

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*WMH

Luminous Intensity Polar Plot





TEST NUMBER: P224524

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*WMH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1423845
5°	1394484
10°	1235344
15°	970725
20°	652644
25°	379137
30°	189508
35°	89371
40°	42221
45°	18515
50°	9581
55°	5403
60°	3099
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224524

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.1	20.9
10°-20°	656.6	41.8
20°-30°	415.1	26.5
30°-40°	129.8	8.3
40°-50°	30.1	1.9
50°-60°	7.9	0.5
60°-70°	1.5	0.1
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°	1399.7	89.2
0°-40°	1529.6	97.5
0°-60°	1567.7	99.9
0°-90°	1569.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3676	
5°	3586	328
15°	2421	657
25°	887	415
35°	189	130
45°	34	30
55°	8	8
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224524

CATALOG NUMBER: LSR2B20FL409050D010 2LBDL*WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3675.9
2.5°	3658.0
5°	3586.4
7.5°	3417.3
10°	3140.8
12.5°	2812.6
15°	2420.7
17.5°	1993.1
20°	1583.3
22.5°	1205.4
25°	887.1
27.5°	626.6
30°	423.7
32.5°	282.5
35°	189.0
37.5°	127.3
40°	83.5
42.5°	51.7
45°	33.8
47.5°	23.9
50°	15.9
52.5°	11.9
55°	8.0
57.5°	6.0
60°	4.0
62.5°	4.0
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)