

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: P223480

Luminaire Tested: **LSR2B20NFL258027D010 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20NFL258027D010 2LBDL*GPH
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
NARROW FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1703.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

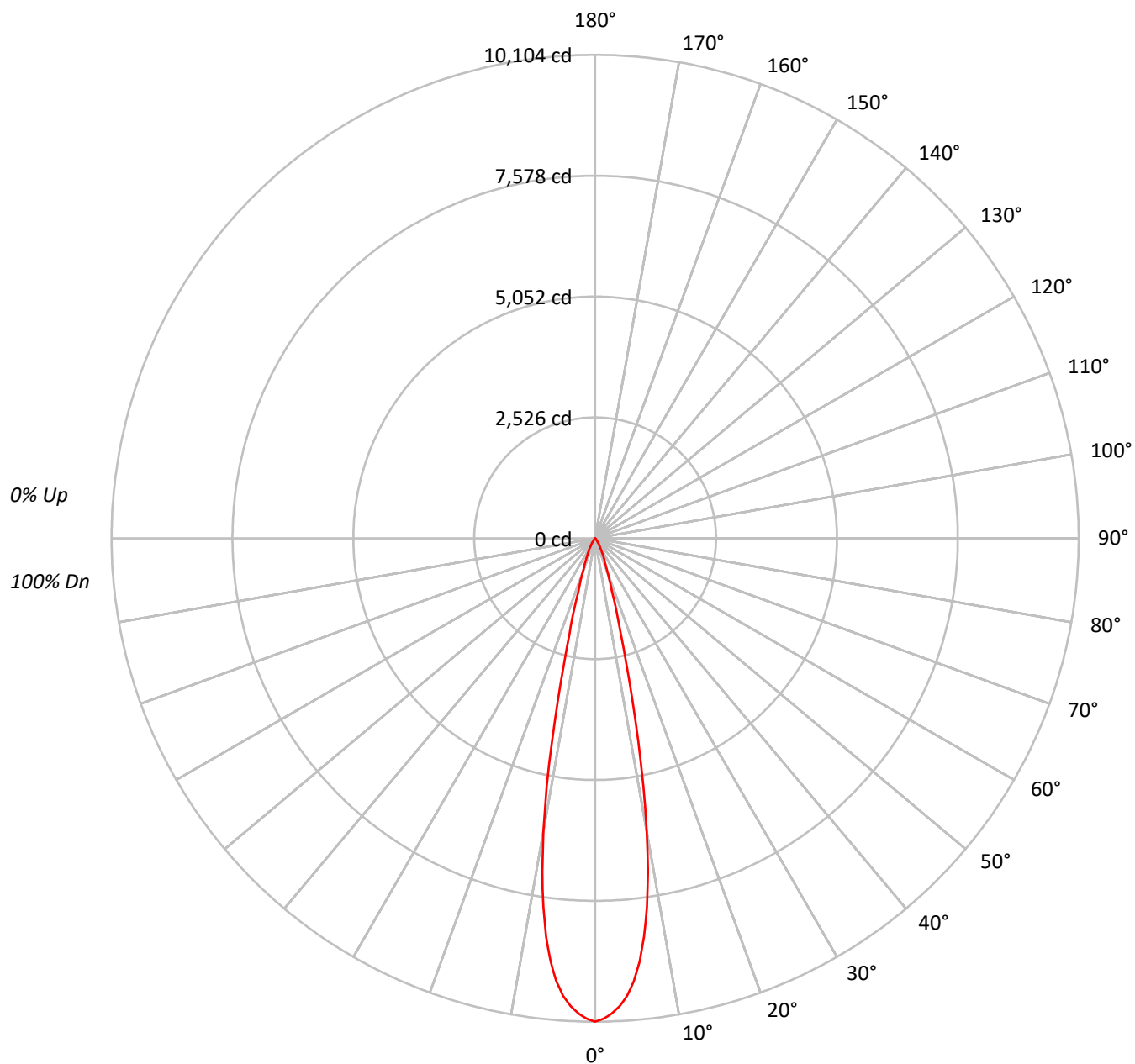
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223480

CATALOG NUMBER: LSR2B20NFL258027D010 2LBDL*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P223480

CATALOG NUMBER: LSR2B20NFL258027D010 2LBDL*GPH

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	115	113	112	110	113	111	110	108	107	106	105		104	103	102		100
2	112	109	106	104	110	107	104	102	104	102	100		101	99	98		98
3	109	105	101	99	107	103	100	98	101	98	96		99	97	95		96
4	106	101	97	95	104	100	97	94	98	95	93		96	94	92		95
5	103	98	94	91	102	97	94	91	95	92	90		94	91	89		93
6	101	95	91	89	99	94	91	88	93	90	88		92	89	87		91
7	98	92	89	86	97	92	88	86	91	88	85		90	87	85		89
8	96	90	86	84	95	90	86	84	89	86	83		88	85	83		87
9	94	88	84	82	93	88	84	82	87	84	82		86	83	81		85
10	92	86	82	80	91	86	82	80	85	82	80		84	82	80		84

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3913666
5°	3613589
10°	2445948
15°	832136
20°	305650
25°	162023
30°	83281
35°	38869
40°	12742
45°	6409
50°	3013
55°	1148
60°	1317
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223480

CATALOG NUMBER: LSR2B20NFL258027D010 2LBDL*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.5	46.4
10°-20°	664.7	39.0
20°-30°	182.4	10.7
30°-40°	53.2	3.1
40°-50°	9.8	0.6
50°-60°	2.2	0.1
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°	1637.6	96.2
0°-40°	1690.8	99.3
0°-60°	1702.9	100.0
0°-90°	1703.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10104	
5°	9294	791
15°	2075	665
25°	379	182
35°	82	53
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223480

CATALOG NUMBER: LSR2B20NFL258027D010 2LBDL*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	10103.8
1°	10045.1
2°	9941.1
3°	9791.8
4°	9587.2
5°	9293.6
6°	8892.7
7°	8391.1
8°	7778.8
9°	7055.8
10°	6218.7
11°	5301.0
12°	4346.5
13°	3435.6
14°	2658.9
15°	2075.1
17.5°	1170.9
20°	741.5
22.5°	528.4
25°	379.1
27.5°	268.4
30°	186.2
32.5°	130.8
35°	82.2
37.5°	33.6
40°	25.2
42.5°	18.5
45°	11.7
47.5°	6.7
50°	5.0
52.5°	3.4
55°	1.7
57.5°	1.7
60°	1.7
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: P223480

CATALOG NUMBER: LSR2B20NFL258027D010 2LBDL*GPH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)