

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: P223181

Luminaire Tested: **LSR2B20NFL258040D010 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223181
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: LSR2B20NFL258040D010 2LBDLC*MB
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
NARROW FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1802.4 lumens
Efficiency: N/A
Efficacy: 86.2 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

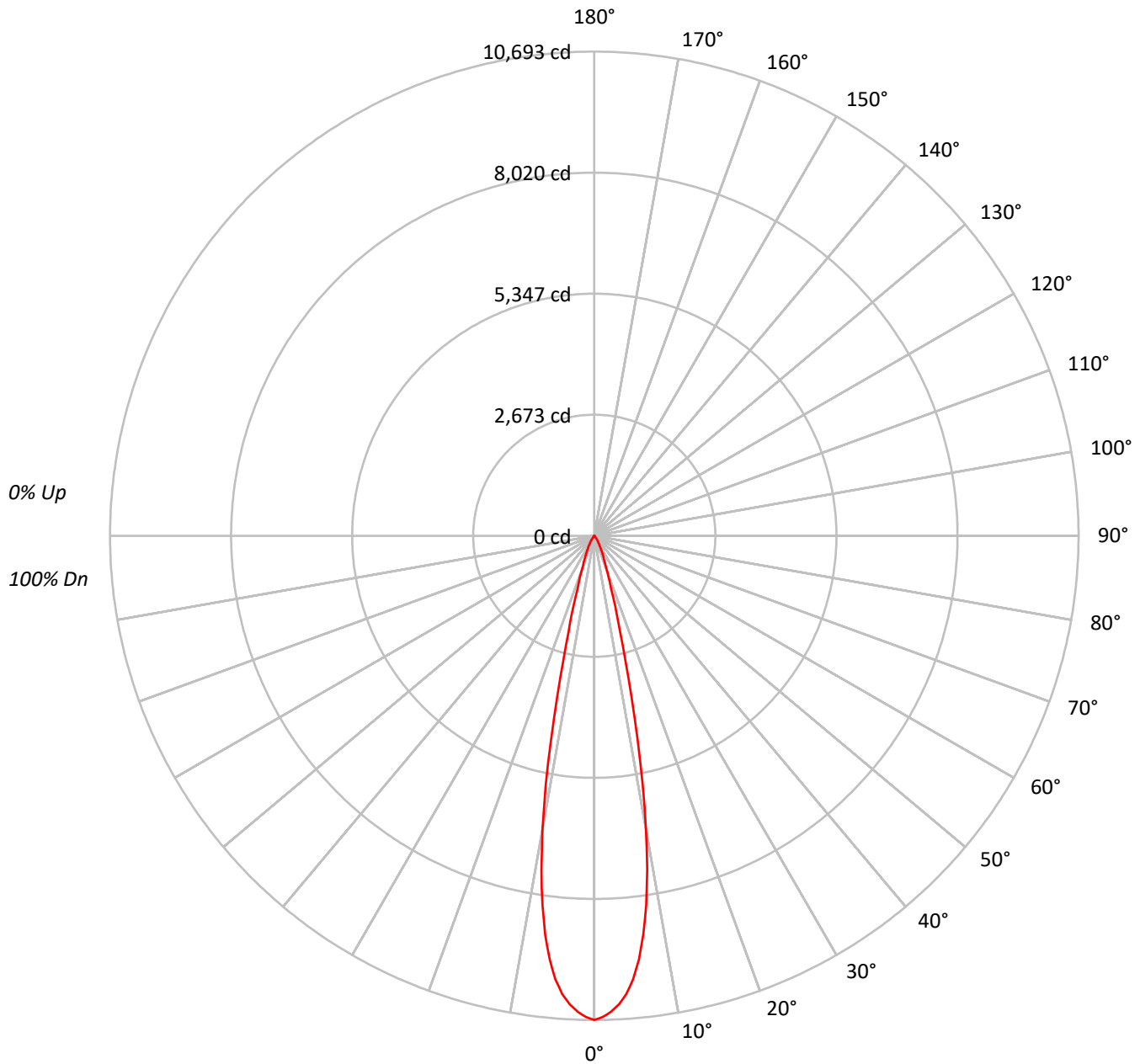
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223181

CATALOG NUMBER: LSR2B20NFL258040D010 2LBDLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P223181

CATALOG NUMBER: LSR2B20NFL258040D010 2LBDLC*MB

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°	4141891
5°	3824294
10°	2588527
15°	880658
20°	323457
25°	171468
30°	88157
35°	41139
40°	13450
45°	6793
50°	3194
55°	1216
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223181

CATALOG NUMBER: LSR2B20NFL258040D010 2LBDLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.6	46.4
10°-20°	703.4	39.0
20°-30°	193.0	10.7
30°-40°	56.3	3.1
40°-50°	10.4	0.6
50°-60°	2.4	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°	1733.1	96.2
0°-40°	1789.4	99.3
0°-60°	1802.2	100.0
0°-90°	1802.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10693	
5°	9836	837
15°	2196	703
25°	401	193
35°	87	56
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223181

CATALOG NUMBER: LSR2B20NFL258040D010 2LBDLC*MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	10693.0
1°	10630.8
2°	10520.7
3°	10362.7
4°	10146.1
5°	9835.5
6°	9411.2
7°	8880.3
8°	8232.3
9°	7467.1
10°	6581.2
11°	5610.1
12°	4599.9
13°	3635.9
14°	2813.9
15°	2196.1
17.5°	1239.2
20°	784.7
22.5°	559.2
25°	401.2
27.5°	284.1
30°	197.1
32.5°	138.5
35°	87.0
37.5°	35.5
40°	26.6
42.5°	19.5
45°	12.4
47.5°	7.1
50°	5.3
52.5°	3.6
55°	1.8
57.5°	1.8
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



TEST NUMBER: P223181

CATALOG NUMBER: LSR2B20NFL258040D010 2LBDLC*MB

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)