

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: P222769

Luminaire Tested: **LSR2B20NFL259030D010 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P222769
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: LSR2B20NFL259030D010 2LBDC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
NARROW FLOOD OPTIC
CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1482.6 lumens
Efficiency: N/A
Efficacy: 70.9 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

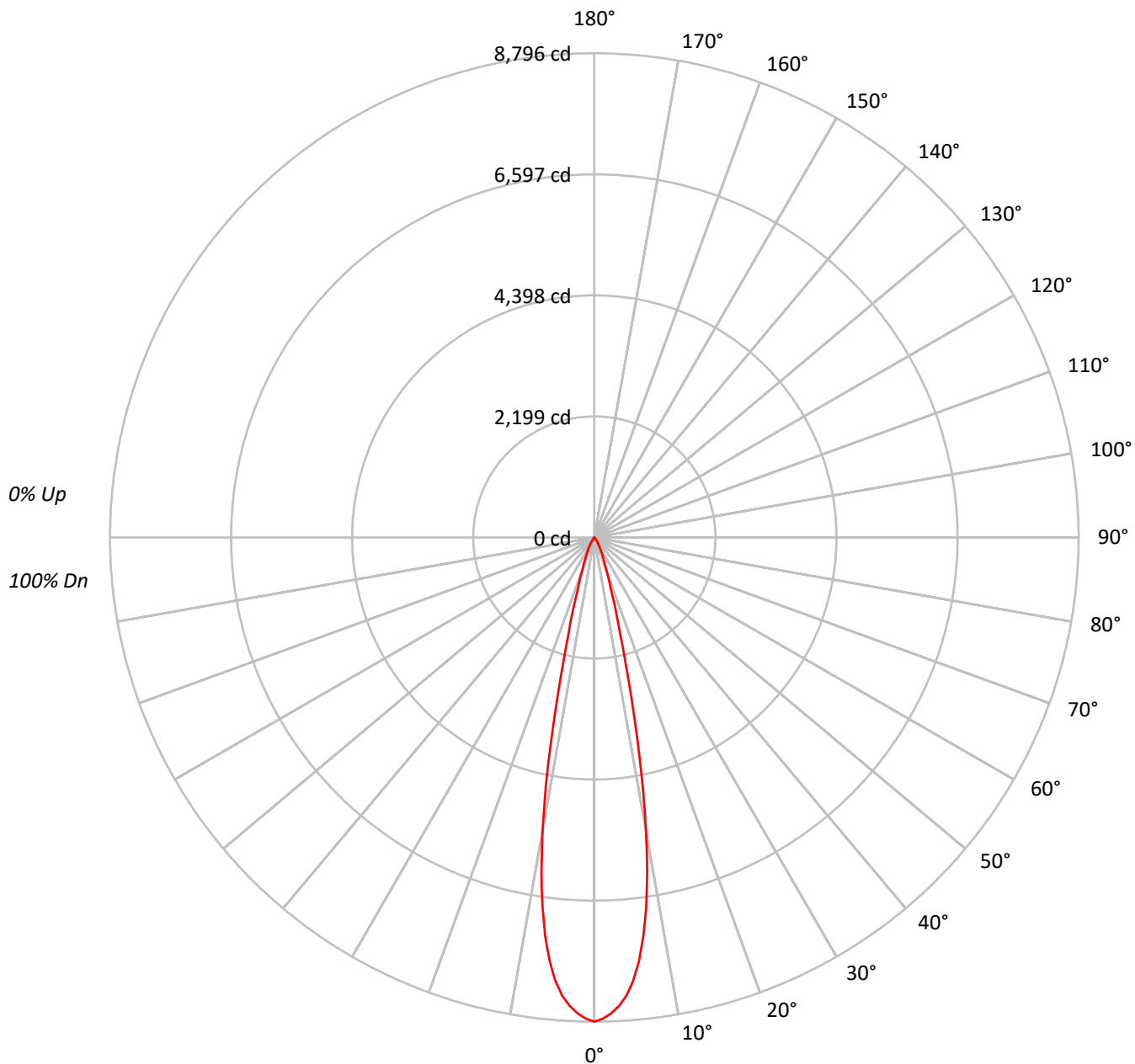
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222769

CATALOG NUMBER: LSR2B20NFL259030D010 2LBDC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P222769

CATALOG NUMBER: LSR2B20NFL259030D010 2LBDC*MMS

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97		
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95		
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92		
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90		
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88		
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86		
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84		
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82		
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80		
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3406979
5°	3145755
10°	2129246
15°	724425
20°	266078
25°	141038
30°	72502
35°	33857
40°	11074
45°	5587
50°	2651
55°	1013
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P222769

CATALOG NUMBER: LSR2B20NFL259030D010 2LBDC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.2	46.4
10°-20°	578.6	39.0
20°-30°	158.8	10.7
30°-40°	46.3	3.1
40°-50°	8.6	0.6
50°-60°	2.0	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°	1425.6	96.2
0°-40°	1471.9	99.3
0°-60°	1482.4	100.0
0°-90°	1482.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8796	
5°	8090	688
15°	1806	579
25°	330	159
35°	72	46
45°	10	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P222769

CATALOG NUMBER: LSR2B20NFL259030D010 2LBDC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	8795.7
1°	8744.6
2°	8654.1
3°	8524.1
4°	8345.9
5°	8090.4
6°	7741.3
7°	7304.7
8°	6771.7
9°	6142.2
10°	5413.5
11°	4614.7
12°	3783.8
13°	2990.8
14°	2314.7
15°	1806.5
17.5°	1019.3
20°	645.5
22.5°	460.0
25°	330.0
27.5°	233.7
30°	162.1
32.5°	113.9
35°	71.6
37.5°	29.2
40°	21.9
42.5°	16.1
45°	10.2
47.5°	5.8
50°	4.4
52.5°	2.9
55°	1.5
57.5°	1.5
60°	1.5
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: P222769

CATALOG NUMBER: LSR2B20NFL259030D010 2LBDC*MMS

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)