

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: P224846

Luminaire Tested: **LSR2B20FL409024D010 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B20FL409024D010 2LBDL*B
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.1 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

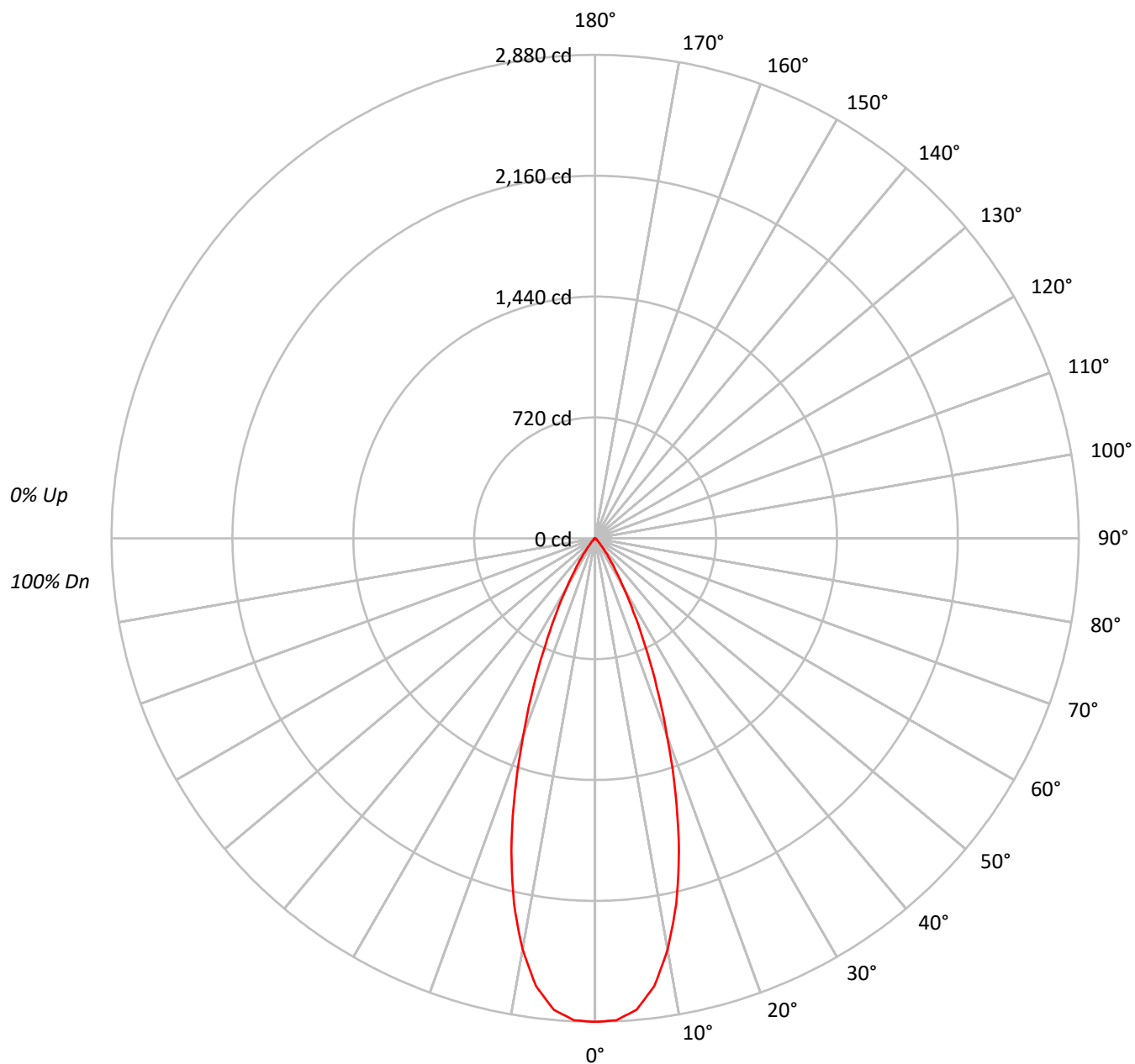
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224846

CATALOG NUMBER: LSR2B20FL409024D010 2LBDL*B

Luminous Intensity Polar Plot





TEST NUMBER: P224846

CATALOG NUMBER: LSR2B20FL409024D010 2LBDL*B

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	103	100	108	104	101	99	101	99	96		98	96	94		96
3	106	100	96	93	104	99	95	92	97	93	91		94	92	89		92
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85
6	94	87	82	79	93	86	82	78	85	81	78		84	80	77		82
7	91	83	78	75	90	83	78	75	81	77	74		80	77	74		79
8	87	80	75	72	86	79	75	71	78	74	71		77	74	71		76
9	84	77	72	69	83	76	72	68	75	71	68		74	71	68		74
10	82	74	69	66	81	73	69	66	73	68	65		72	68	65		71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1115711
5°	1096294
10°	977994
15°	773027
20°	515462
25°	299044
30°	149656
35°	70409
40°	27507
45°	12270
50°	5785
55°	3242
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224846

CATALOG NUMBER: LSR2B20FL409024D010 2LBDL*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	21.0
10°-20°	521.8	42.3
20°-30°	328.2	26.6
30°-40°	100.3	8.1
40°-50°	19.7	1.6
50°-60°	4.4	0.4
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°	1108.5	89.9
0°-40°	1208.8	98.0
0°-60°	1232.9	100.0
0°-90°	1233.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2880	
5°	2820	258
15°	1928	522
25°	700	328
35°	149	100
45°	22	20
55°	5	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224846

CATALOG NUMBER: LSR2B20FL409024D010 2LBDL*B

CANDELA DISTRIBUTION (FULL):

	0°
0°	2880.4
2.5°	2874.0
5°	2819.5
7.5°	2691.4
10°	2486.5
12.5°	2230.3
15°	1927.7
17.5°	1591.5
20°	1250.5
22.5°	959.1
25°	699.7
27.5°	493.1
30°	334.6
32.5°	225.8
35°	148.9
37.5°	91.3
40°	54.4
42.5°	35.2
45°	22.4
47.5°	14.4
50°	9.6
52.5°	6.4
55°	4.8
57.5°	3.2
60°	1.6
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)