

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: P224850

Luminaire Tested: **LSR2WM2B20FL409040D010 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224850
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: LSR2WM2B20FL409040D010 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: 1468.1 lumens
Efficiency: N/A
Efficacy: 70.2 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

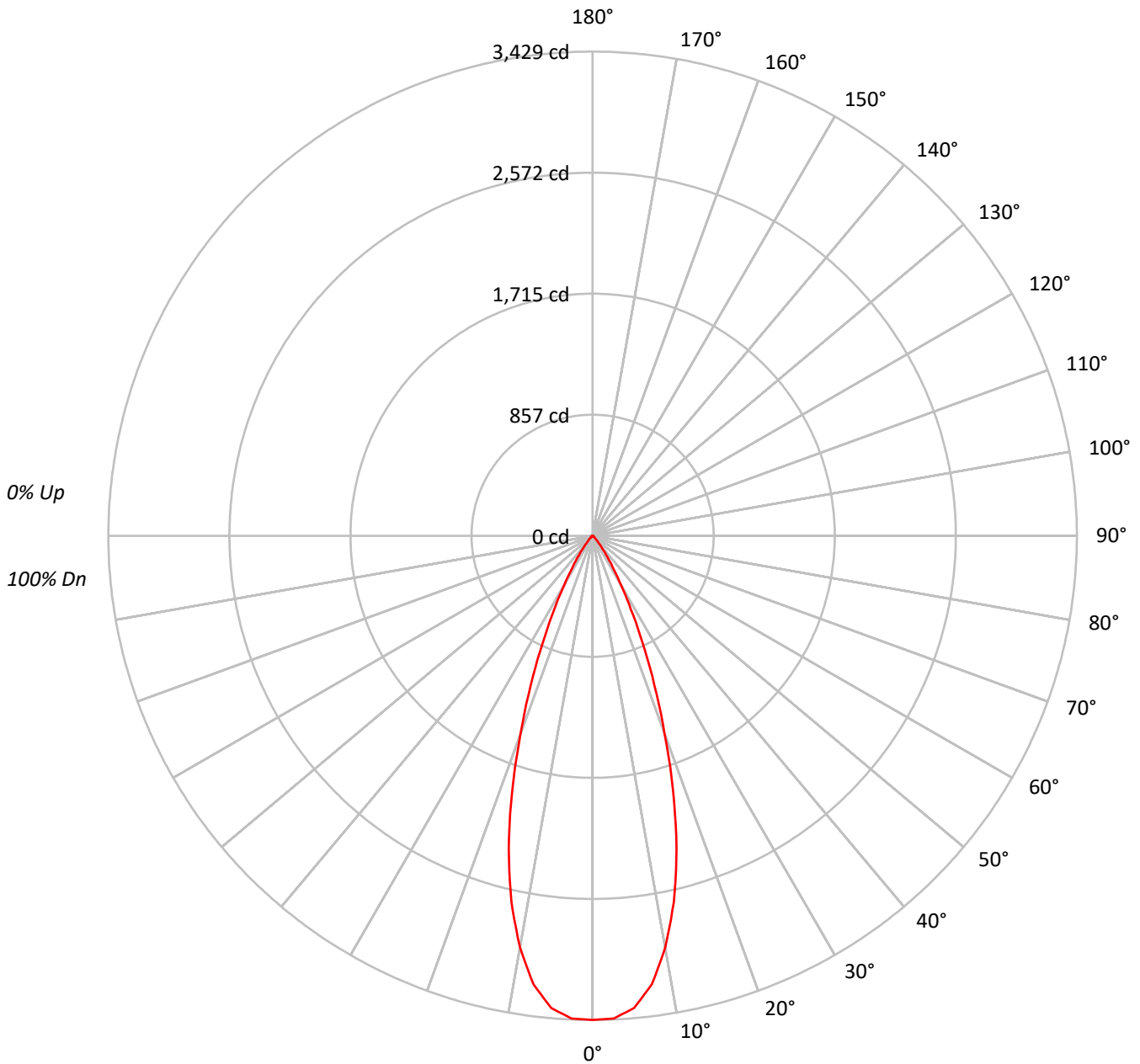
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224850

CATALOG NUMBER: LSR2WM2B20FL409040D010 2LBDL*B

Luminous Intensity Polar Plot





TEST NUMBER: P224850

CATALOG NUMBER: LSR2WM2B20FL409040D010 2LBDL*B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	96	94	92	91			91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87			87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83			83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79			79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76			76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72			72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69			69
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67			67
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1328326
5°	1305249
10°	1164389
15°	920358
20°	613691
25°	356015
30°	178192
35°	83838
40°	32766
45°	14626
50°	6870
55°	3849
60°	1472
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224850

CATALOG NUMBER: LSR2WM2B20FL409040D010 2LBDL*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	21.0
10°-20°	621.2	42.3
20°-30°	390.8	26.6
30°-40°	119.5	8.1
40°-50°	23.4	1.6
50°-60°	5.3	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°	1319.7	89.9
0°-40°	1439.2	98.0
0°-60°	1467.9	100.0
0°-90°	1468.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3429	
5°	3357	308
15°	2295	621
25°	833	391
35°	177	119
45°	27	23
55°	6	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224850

CATALOG NUMBER: LSR2WM2B20FL409040D010 2LBDL*B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3429.3
2.5°	3421.7
5°	3356.9
7.5°	3204.4
10°	2960.4
12.5°	2655.4
15°	2295.1
17.5°	1894.8
20°	1488.8
22.5°	1141.8
25°	833.0
27.5°	587.1
30°	398.4
32.5°	268.8
35°	177.3
37.5°	108.7
40°	64.8
42.5°	41.9
45°	26.7
47.5°	17.2
50°	11.4
52.5°	7.6
55°	5.7
57.5°	3.8
60°	1.9
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)