

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: P222969

Luminaire Tested: **LSSQWM2B20NFL259024D010 2LBDL*WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P222969
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: LSSQWM2B20NFL259024D010 2LBDL*WH
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
NARROW FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH WHEAT HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1247.7 lumens
Efficiency: N/A
Efficacy: 59.7 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

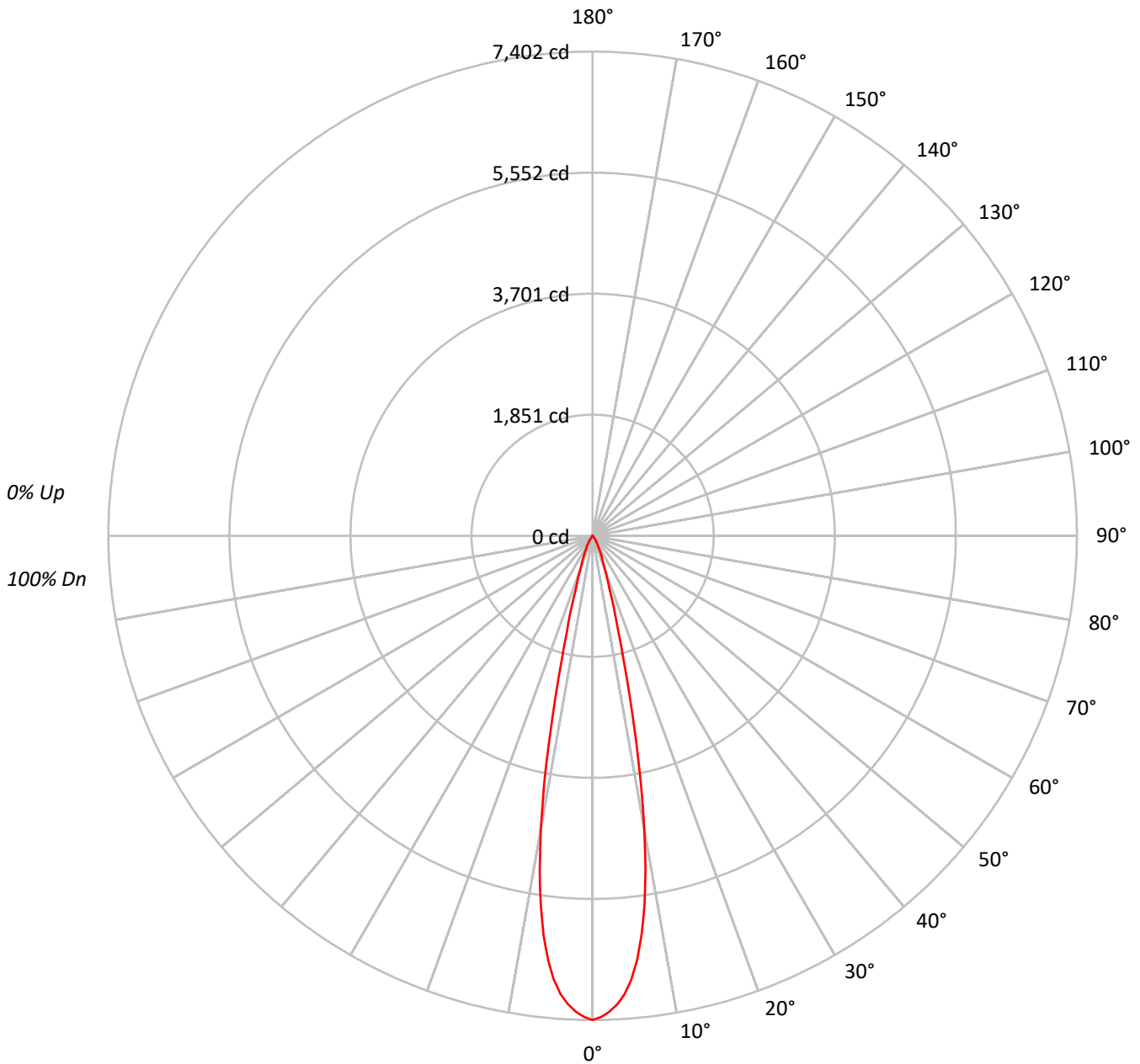
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222969

CATALOG NUMBER: LSSQWM2B20NFL259024D010 2LBDL*WH

Luminous Intensity Polar Plot





TEST NUMBER: P222969

CATALOG NUMBER: LSSQWM2B20NFL259024D010 2LBDL*WH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2867174
5°	2647319
10°	1791894
15°	609616
20°	223910
25°	118686
30°	61007
35°	28466
40°	9304
45°	4711
50°	2230
55°	810
60°	930
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P222969

CATALOG NUMBER: LSSQWM2B20NFL259024D010 2LBDL*WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.2	46.4
10°-20°	486.9	39.0
20°-30°	133.6	10.7
30°-40°	39.0	3.1
40°-50°	7.2	0.6
50°-60°	1.6	0.1
60°-70°	0.1	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°	1199.7	96.2
0°-40°	1238.7	99.3
0°-60°	1247.5	100.0
0°-90°	1247.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7402	
5°	6808	579
15°	1520	487
25°	278	134
35°	60	39
45°	9	7
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P222969

CATALOG NUMBER: LSSQWM2B20NFL259024D010 2LBDL*WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	7402.1
1°	7359.1
2°	7282.9
3°	7173.5
4°	7023.6
5°	6808.5
6°	6514.8
7°	6147.3
8°	5698.8
9°	5169.1
10°	4555.8
11°	3883.6
12°	3184.3
13°	2516.9
14°	1947.9
15°	1520.2
17.5°	857.8
20°	543.2
22.5°	387.1
25°	277.7
27.5°	196.6
30°	136.4
32.5°	95.9
35°	60.2
37.5°	24.6
40°	18.4
42.5°	13.5
45°	8.6
47.5°	4.9
50°	3.7
52.5°	2.5
55°	1.2
57.5°	1.2
60°	1.2
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: P222969

CATALOG NUMBER: LSSQWM2B20NFL259024D010 2LBDL*WH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)