

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: P222706

Luminaire Tested: **LSSQWM2B20NFL259035D010 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P222706
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: LSSQWM2B20NFL259035D010 2LBDL*GPH
Description: 2000 Lumen, 2inch Portfolio LED Cylinder
NARROW FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.6 lumens
Efficiency: N/A
Efficacy: 69.5 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

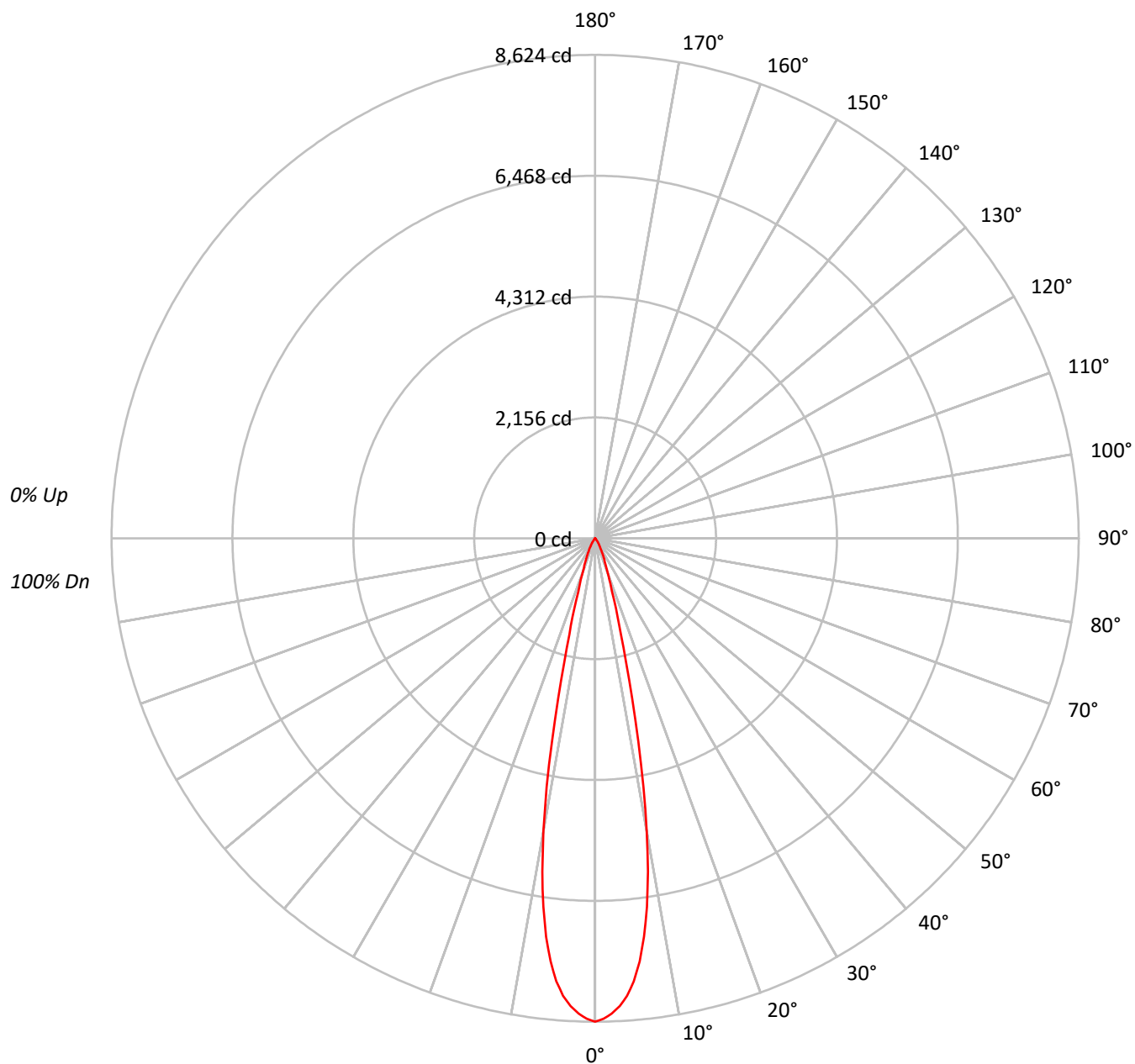
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222706

CATALOG NUMBER: LSSQWM2B20NFL259035D010 2LBDL*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P222706

CATALOG NUMBER: LSSQWM2B20NFL259035D010 2LBDL*GPH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	90	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	88	88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	86	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84	84	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	82	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	80	80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3340356
5°	3084203
10°	2087593
15°	710229
20°	260885
25°	138303
30°	71071
35°	33195
40°	10871
45°	5478
50°	2591
55°	945
60°	1085
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P222706

CATALOG NUMBER: LSSQWM2B20NFL259035D010 2LBDL*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.7	46.4
10°-20°	567.3	39.0
20°-30°	155.7	10.7
30°-40°	45.4	3.1
40°-50°	8.4	0.6
50°-60°	1.9	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°	1397.7	96.2
0°-40°	1443.1	99.3
0°-60°	1453.4	100.0
0°-90°	1453.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8624	
5°	7932	675
15°	1771	567
25°	324	156
35°	70	45
45°	10	8
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P222706

CATALOG NUMBER: LSSQWM2B20NFL259035D010 2LBDL*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	8623.7
1°	8573.5
2°	8484.8
3°	8357.3
4°	8182.7
5°	7932.1
6°	7589.9
7°	7161.8
8°	6639.2
9°	6022.1
10°	5307.6
11°	4524.5
12°	3709.8
13°	2932.3
14°	2269.4
15°	1771.1
17.5°	999.4
20°	632.9
22.5°	451.0
25°	323.6
27.5°	229.1
30°	158.9
32.5°	111.7
35°	70.2
37.5°	28.6
40°	21.5
42.5°	15.7
45°	10.0
47.5°	5.7
50°	4.3
52.5°	2.9
55°	1.4
57.5°	1.4
60°	1.4
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: P222706

CATALOG NUMBER: LSSQWM2B20NFL259035D010 2LBDL*GPH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)