

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: P223398

Luminaire Tested: **LSR2B20NFL258030D010 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223398
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: LSR2B20NFL258030D010 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: 1737.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

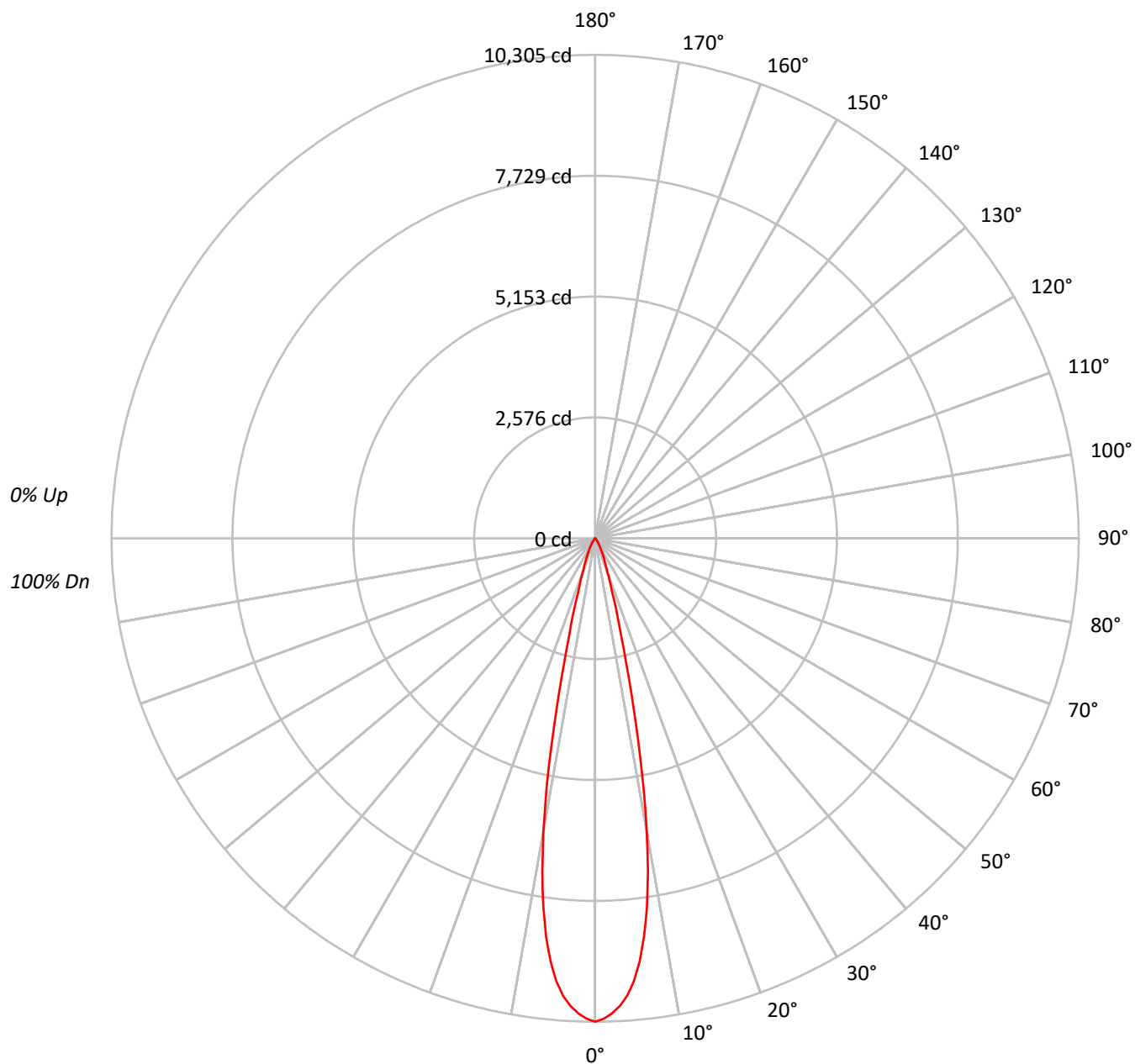
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	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°	3991600
5°	3685522
10°	2494602
15°	848698
20°	311709
25°	165271
30°	84936
35°	39626
40°	12995
45°	6573
50°	3073
55°	1148
60°	1317
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.3	46.4
10°-20°	677.9	39.0
20°-30°	186.0	10.7
30°-40°	54.2	3.1
40°-50°	10.0	0.6
50°-60°	2.3	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°	1670.2	96.2
0°-40°	1724.5	99.3
0°-60°	1736.8	100.0
0°-90°	1737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1737.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10305	
5°	9479	806
15°	2116	678
25°	387	186
35°	84	54
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10305.0
1°	10245.1
2°	10139.0
3°	9986.7
4°	9778.0
5°	9478.6
6°	9069.7
7°	8558.1
8°	7933.6
9°	7196.2
10°	6342.4
11°	5406.6
12°	4433.0
13°	3504.0
14°	2711.8
15°	2116.4
17.5°	1194.2
20°	756.2
22.5°	538.9
25°	386.7
27.5°	273.7
30°	189.9
32.5°	133.5
35°	83.8
37.5°	34.2
40°	25.7
42.5°	18.8
45°	12.0
47.5°	6.8
50°	5.1
52.5°	3.4
55°	1.7
57.5°	1.7
60°	1.7
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)