

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: P223120

Luminaire Tested: **LSSQ2B05NFL258050D010 2LBD\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223120  
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: LSSQ2B05NFL258050D010 2LBD\*GPH  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
NARROW FLOOD OPTIC  
SPUN ROUND TRIM WITH GRAPHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 795.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

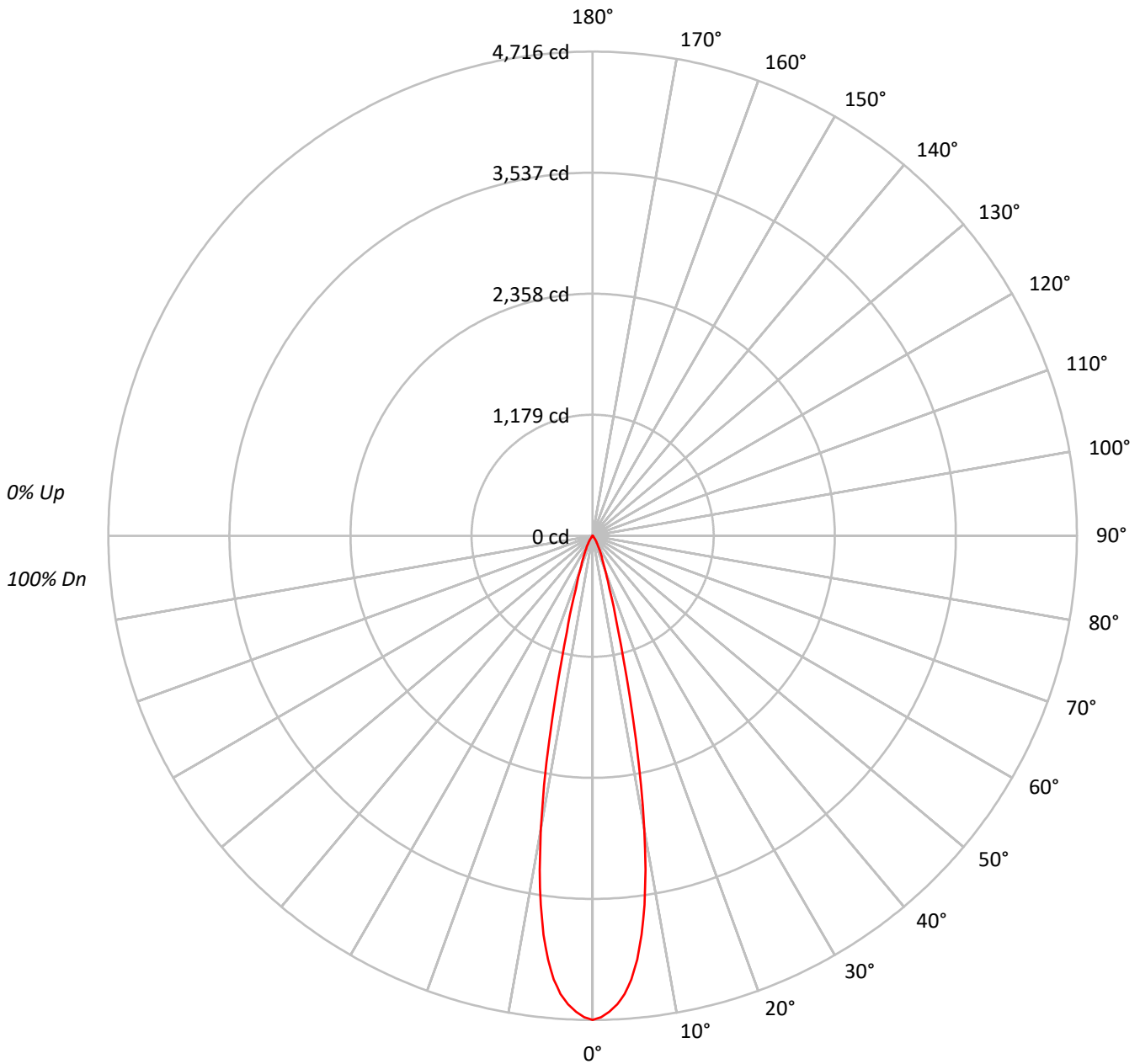
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1826879
5°	1686803
10°	1141733
15°	388458
20°	142664
25°	75648
30°	38868
35°	18158
40°	5916
45°	3013
50°	1386
55°	540
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.0	46.4
10°-20°	310.3	39.0
20°-30°	85.2	10.7
30°-40°	24.8	3.1
40°-50°	4.6	0.6
50°-60°	1.1	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°	764.5	96.2
0°-40°	789.3	99.3
0°-60°	794.9	100.0
0°-90°	795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	795.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4716	
5°	4338	369
15°	969	310
25°	177	85
35°	38	25
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4716.4
1°	4689.0
2°	4640.5
3°	4570.8
4°	4475.2
5°	4338.2
6°	4151.1
7°	3916.9
8°	3631.1
9°	3293.6
10°	2902.8
11°	2474.5
12°	2028.9
13°	1603.7
14°	1241.2
15°	968.7
17.5°	546.6
20°	346.1
22.5°	246.7
25°	177.0
27.5°	125.3
30°	86.9
32.5°	61.1
35°	38.4
37.5°	15.7
40°	11.7
42.5°	8.6
45°	5.5
47.5°	3.1
50°	2.3
52.5°	1.6
55°	0.8
57.5°	0.8
60°	0.8
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)