

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: P225165

Luminaire Tested: **LD2B05D010 EU2B05FL408040 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL408040 2LBDSQC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 765.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

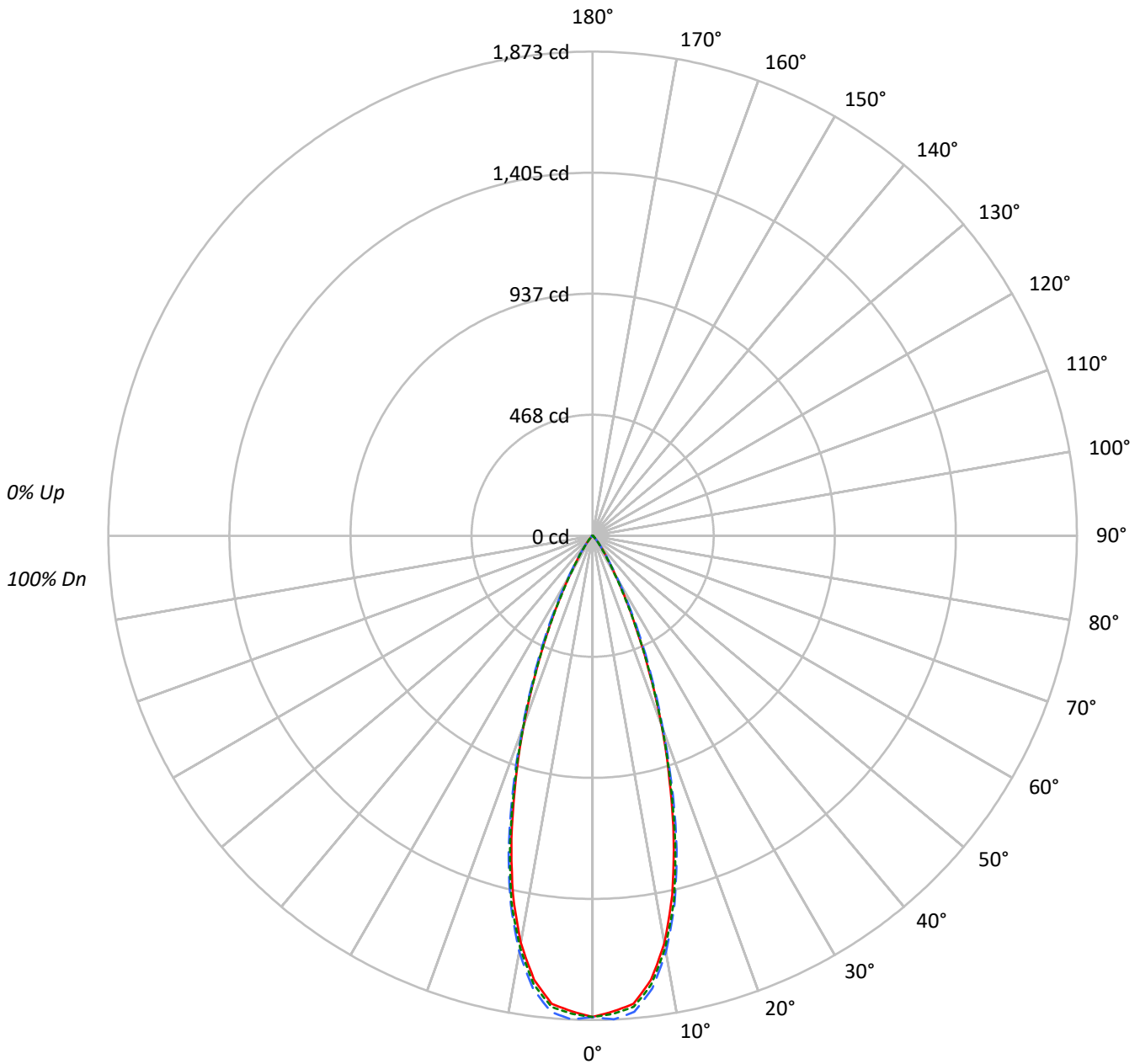
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

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

	0°	45°	90°
0°	720928	720928	720928
5°	706652	718822	711123
10°	628882	642373	635843
15°	485864	503428	494646
20°	320531	327373	322221
25°	174845	186854	175742
30°	78675	87083	75409
35°	33952	34945	31020
40°	14209	14714	13147
45°	5697	6300	6300
50°	2531	3134	3134
55°	1418	1418	2093
60°	775	775	775
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	22.0
10°-20°	334.9	43.8
20°-30°	197.8	25.9
30°-40°	51.5	6.7
40°-50°	10.2	1.3
50°-60°	2.2	0.3
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°	700.9	91.6
0°-40°	752.4	98.4
0°-60°	764.8	100.0
0°-90°	765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1817	1832	1849	1836	1829	166
15°	1212	1239	1255	1237	1234	329
25°	409	423	437	420	411	193
35°	72	75	74	73	66	50
45°	10	12	12	12	12	10
55°	2	2	2	2	3	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1861.2	1861.2	1861.2	1861.2	1861.2
2.5°	1841.4	1860.1	1872.6	1862.2	1850.8
5°	1817.4	1832.0	1848.7	1836.2	1828.9
7.5°	1732.1	1754.0	1766.4	1760.2	1748.7
10°	1598.9	1615.5	1633.2	1627.0	1616.6
12.5°	1422.9	1445.8	1462.5	1447.9	1450.0
15°	1211.6	1238.7	1255.4	1236.6	1233.5
17.5°	987.8	1008.7	1020.1	1008.7	1000.3
20°	777.6	790.1	794.2	789.0	781.7
22.5°	574.6	588.1	600.6	588.1	578.8
25°	409.1	422.6	437.2	420.5	411.2
27.5°	275.8	284.2	296.7	281.0	267.5
30°	175.9	185.3	194.7	183.2	168.6
32.5°	111.4	117.6	118.7	116.6	104.1
35°	71.8	74.9	73.9	72.9	65.6
37.5°	45.8	45.8	46.8	45.8	41.6
40°	28.1	30.2	29.1	28.1	26.0
42.5°	16.7	18.7	17.7	17.7	16.7
45°	10.4	12.5	11.5	11.5	11.5
47.5°	7.3	8.3	7.3	7.3	8.3
50°	4.2	5.2	5.2	5.2	5.2
52.5°	3.1	3.1	3.1	3.1	4.2
55°	2.1	2.1	2.1	2.1	3.1
57.5°	2.1	2.1	1.0	1.0	2.1
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)