

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: P225180

Luminaire Tested: **LD2B10D010 EU2B10FL409035 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225180  
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: LD2B10D010 EU2B10FL409035 2LBDSQC\*MB  
Description: 1000 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: 812.5 lumens  
Efficiency: N/A  
Efficacy: 78.9 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

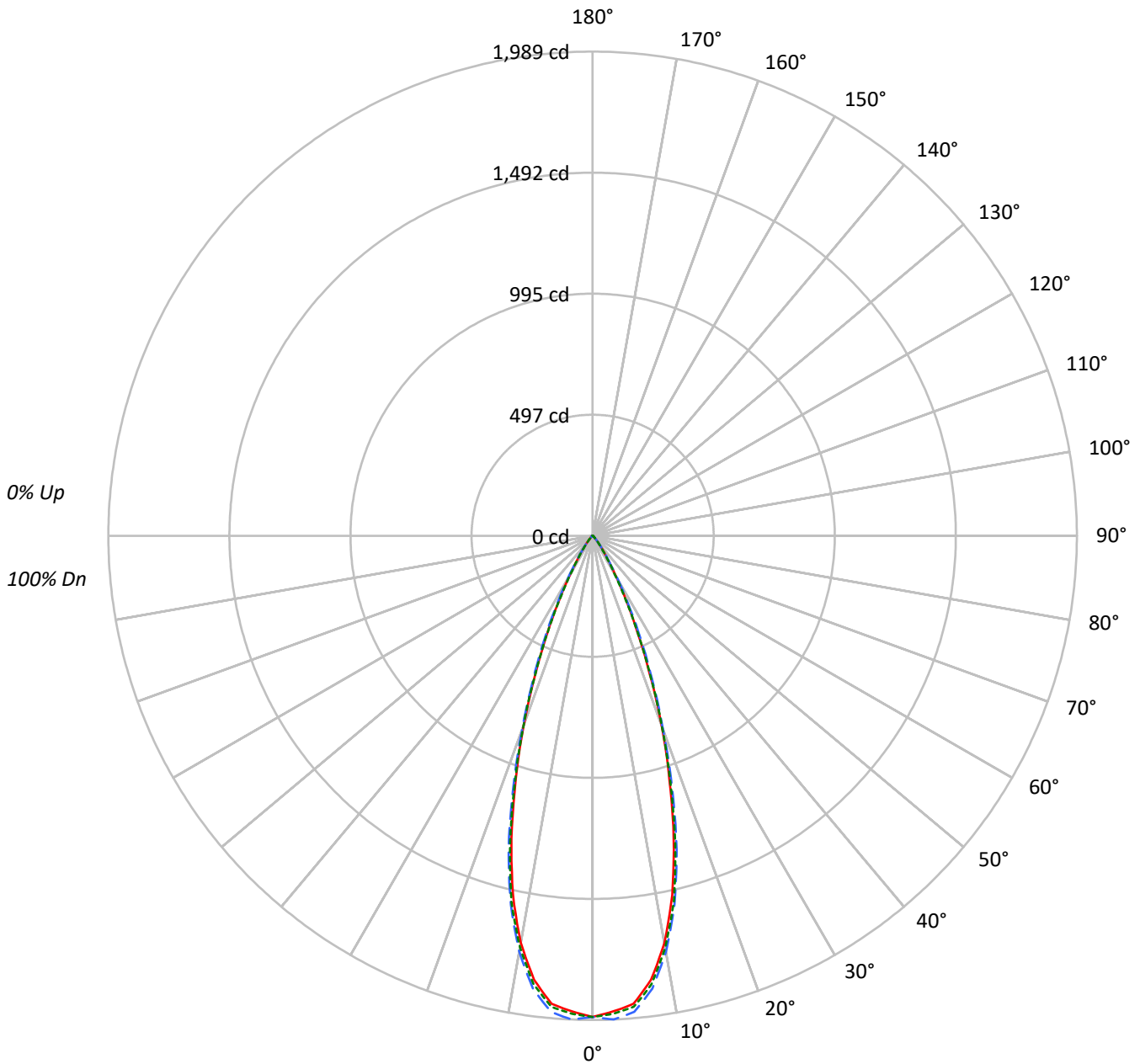
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	765667	765667	765667
5°	750550	763459	755294
10°	667899	682255	675294
15°	516060	534667	525363
20°	340399	347695	342254
25°	185701	198437	186641
30°	83550	92450	80106
35°	36079	37120	32911
40°	15068	15675	13956
45°	6080	6683	6683
50°	2651	3314	3314
55°	1486	1486	2229
60°	852	852	852
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°	178.7	22.0
10°-20°	355.7	43.8
20°-30°	210.1	25.9
30°-40°	54.7	6.7
40°-50°	10.8	1.3
50°-60°	2.4	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°	744.4	91.6
0°-40°	799.1	98.4
0°-60°	812.3	100.0
0°-90°	812.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	812.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1977	1977	1977	1977	1977	
5°	1930	1946	1964	1950	1942	177
15°	1287	1316	1333	1313	1310	349
25°	434	449	464	447	437	205
35°	76	80	78	77	70	53
45°	11	13	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°	1976.7	1976.7	1976.7	1976.7	1976.7
2.5°	1955.7	1975.6	1988.9	1977.8	1965.7
5°	1930.3	1945.8	1963.5	1950.2	1942.5
7.5°	1839.6	1862.9	1876.1	1869.5	1857.3
10°	1698.1	1715.8	1734.6	1728.0	1716.9
12.5°	1511.3	1535.6	1553.3	1537.8	1540.0
15°	1286.9	1315.6	1333.3	1313.4	1310.1
17.5°	1049.2	1071.3	1083.4	1071.3	1062.4
20°	825.8	839.1	843.5	838.0	830.3
22.5°	610.3	624.6	637.9	624.6	614.7
25°	434.5	448.9	464.3	446.6	436.7
27.5°	293.0	301.8	315.1	298.5	284.1
30°	186.8	196.8	206.7	194.6	179.1
32.5°	118.3	124.9	126.0	123.8	110.6
35°	76.3	79.6	78.5	77.4	69.6
37.5°	48.6	48.6	49.7	48.6	44.2
40°	29.8	32.1	31.0	29.8	27.6
42.5°	17.7	19.9	18.8	18.8	17.7
45°	11.1	13.3	12.2	12.2	12.2
47.5°	7.7	8.8	7.7	7.7	8.8
50°	4.4	5.5	5.5	5.5	5.5
52.5°	3.3	3.3	3.3	3.3	4.4
55°	2.2	2.2	2.2	2.2	3.3
57.5°	2.2	2.2	1.1	1.1	2.2
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	0.0	0.0	0.0	1.1
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)