

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: P225223

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225223  
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 2LBDSQLC\*MB  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 748.5 lumens  
Efficiency: N/A  
Efficacy: 72.7 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

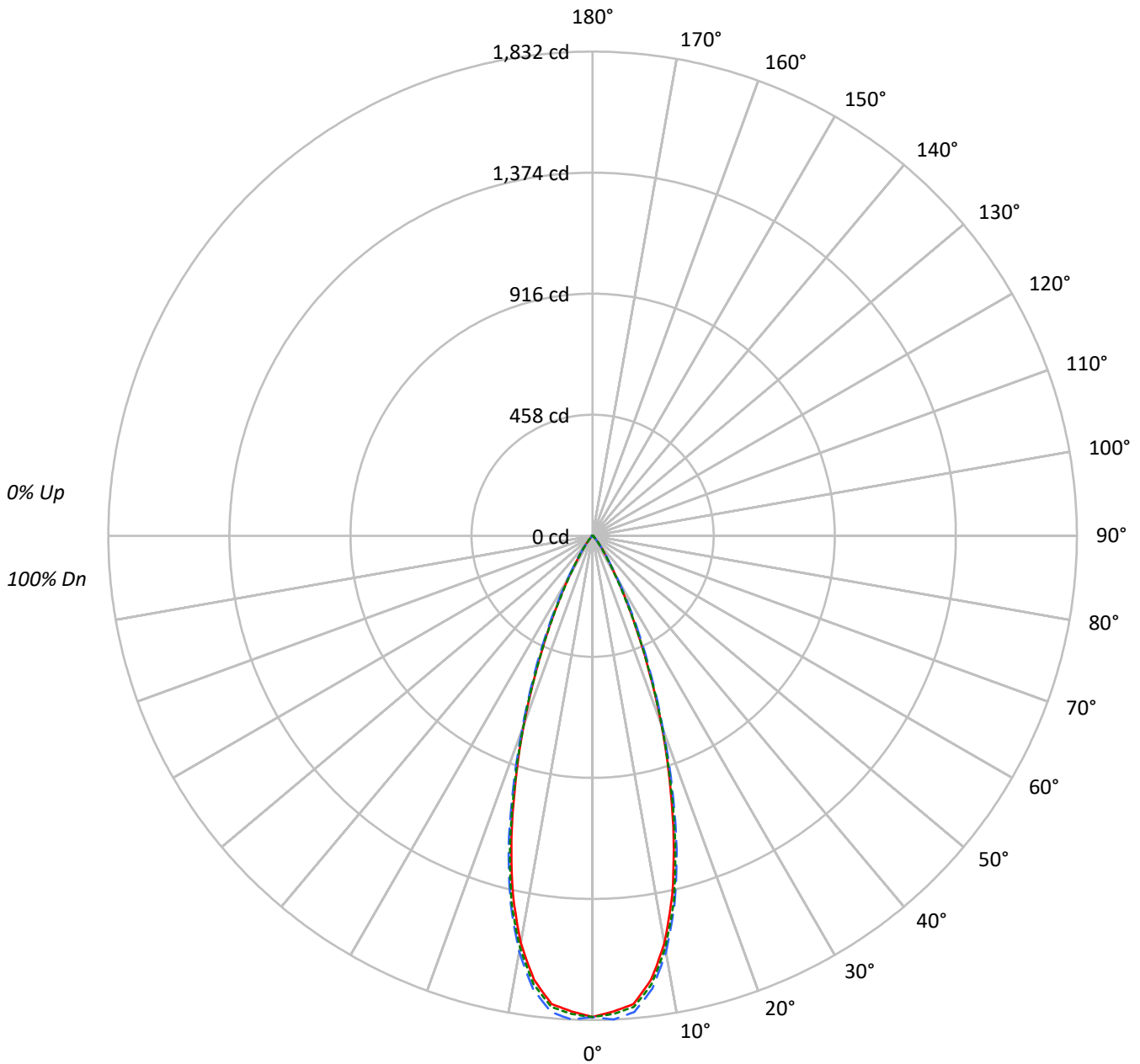
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20					
RC	80					70					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°	705357	705357	705357
5°	691410	703308	695803
10°	615312	628528	622116
15°	475397	492561	483979
20°	313606	320324	315296
25°	171084	182837	171939
30°	76975	85205	73799
35°	33242	34188	30358
40°	13905	14411	12894
45°	5587	6135	6135
50°	2471	3073	3073
55°	1351	1351	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°	164.6	22.0
10°-20°	327.7	43.8
20°-30°	193.5	25.9
30°-40°	50.4	6.7
40°-50°	10.0	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°	685.8	91.6
0°-40°	736.2	98.4
0°-60°	748.3	100.0
0°-90°	748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1778	1792	1809	1797	1790	163
15°	1186	1212	1228	1210	1207	322
25°	400	414	428	412	402	189
35°	70	73	72	71	64	49
45°	10	12	11	11	11	9
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°	1821.0	1821.0	1821.0	1821.0	1821.0
2.5°	1801.7	1820.0	1832.2	1822.0	1810.8
5°	1778.2	1792.5	1808.8	1796.6	1789.5
7.5°	1694.7	1716.1	1728.3	1722.2	1711.0
10°	1564.4	1580.7	1598.0	1591.9	1581.7
12.5°	1392.2	1414.7	1431.0	1416.7	1418.7
15°	1185.5	1212.0	1228.3	1209.9	1206.9
17.5°	966.5	986.9	998.1	986.9	978.7
20°	760.8	773.0	777.1	772.0	764.9
22.5°	562.2	575.4	587.7	575.4	566.3
25°	400.3	413.5	427.8	411.5	402.3
27.5°	269.9	278.0	290.3	275.0	261.7
30°	172.1	181.3	190.5	179.3	165.0
32.5°	109.0	115.1	116.1	114.1	101.8
35°	70.3	73.3	72.3	71.3	64.2
37.5°	44.8	44.8	45.8	44.8	40.7
40°	27.5	29.5	28.5	27.5	25.5
42.5°	16.3	18.3	17.3	17.3	16.3
45°	10.2	12.2	11.2	11.2	11.2
47.5°	7.1	8.1	7.1	7.1	8.1
50°	4.1	5.1	5.1	5.1	5.1
52.5°	3.1	3.1	3.1	3.1	4.1
55°	2.0	2.0	2.0	2.0	3.1
57.5°	2.0	2.0	1.0	1.0	2.0
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)