

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: P281496

Luminaire Tested: **LDA2B108050D010 EU2B10SP158050 2LBASQC1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108050D010 EU2B10SP158050 2LBASQC1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1131.2 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

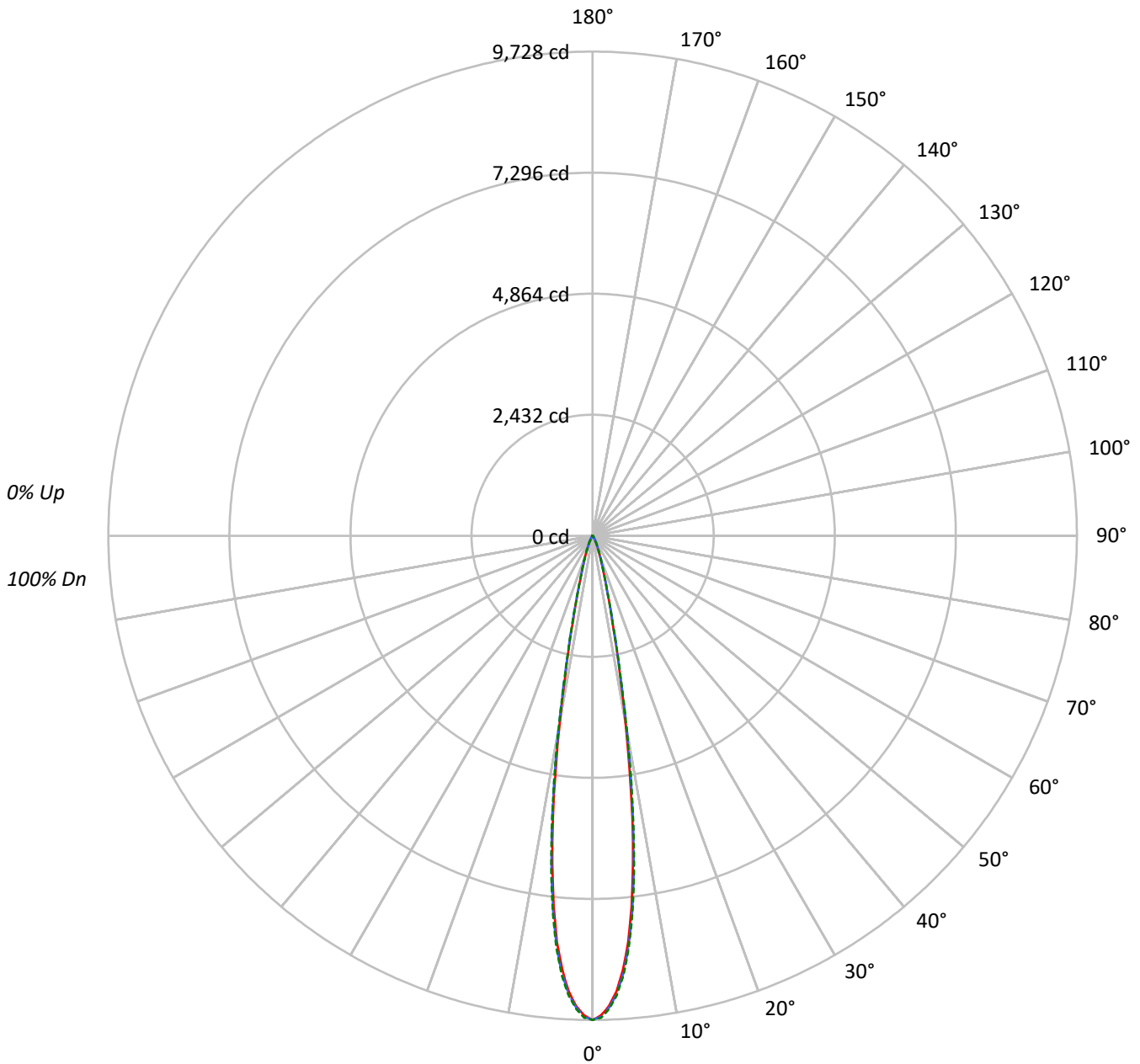
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96					98	
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94					96	
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92					94	
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90					92	
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	89	88					90	
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87					89	
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85					87	
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	84	83					86	
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82					84	
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81					83	

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

	0°	45°	90°
0°	4799374	4799374	4799374
5°	4062110	4104602	4122431
10°	1899488	1971478	1975335
15°	556377	564447	564192
20°	223398	223713	223976
25°	99619	109744	102014
30°	42328	58222	38568
35°	19394	26982	18069
40°	6312	10562	5603
45°	0	3837	0
50°	0	0	0
55°	1892	946	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3125	0	0
85°	6227	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.9	56.8
10°-20°	364.4	32.2
20°-30°	95.2	8.4
30°-40°	24.5	2.2
40°-50°	2.4	0.2
50°-60°	0.8	0.1
60°-70°	0.1	0.0
70°-80°	0.8	0.1
80°-90°	0.2	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°	1102.4	97.5
0°-40°	1127.0	99.6
0°-60°	1130.2	99.9
0°-90°	1131.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9728	9728	9728	9728	9728	
5°	8202	8275	8288	8236	8324	635
15°	1089	1104	1105	1092	1105	358
25°	183	198	202	192	187	91
35°	32	34	45	31	30	22
45°	0	2	6	0	0	2
55°	2	3	1	0	0	1
65°	0	0	0	0	0	1
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9727.9	9727.9	9727.9	9727.9	9727.9
1°	9636.7	9675.0	9663.5	9649.8	9688.1
2°	9451.0	9488.1	9484.9	9466.8	9511.6
3°	9164.7	9216.6	9216.6	9189.9	9245.6
4°	8738.1	8817.3	8825.0	8787.3	8856.6
5°	8202.2	8275.4	8288.0	8235.5	8324.0
6°	7476.2	7576.2	7604.6	7544.0	7634.6
7°	6642.1	6747.0	6790.1	6722.4	6824.0
8°	5742.4	5817.8	5869.7	5792.1	5895.3
9°	4735.6	4844.3	4891.8	4816.4	4917.0
10°	3791.6	3891.6	3935.3	3917.3	3943.0
11°	2944.9	3033.4	3062.9	3038.3	3050.4
12°	2305.8	2341.3	2360.4	2344.0	2352.2
13°	1750.8	1798.3	1807.1	1800.0	1803.8
14°	1367.3	1390.3	1400.1	1396.8	1398.4
15°	1089.3	1104.0	1105.1	1092.5	1104.6
16°	877.3	888.8	893.7	880.6	896.4
17°	718.9	728.2	733.6	720.5	727.1
18°	591.6	598.7	606.4	594.9	604.7
19°	496.6	500.9	501.5	498.2	500.9
20°	425.5	423.4	426.1	420.1	426.6
22.5°	280.2	285.7	292.3	285.2	287.9
25°	183.0	198.3	201.6	192.3	187.4
26°	150.8	170.4	179.2	164.4	148.6
27°	125.1	139.3	150.8	131.1	118.5
28°	109.8	121.8	133.3	114.7	100.0
29°	91.8	103.8	123.5	102.2	92.9
30°	74.3	83.0	102.2	77.6	67.7
32.5°	42.1	49.2	66.1	45.9	37.7
35°	32.2	34.4	44.8	30.6	30.0
37.5°	27.9	25.1	35.0	25.1	20.2
40°	9.8	14.7	16.4	10.9	8.7
42.5°	4.4	4.4	7.1	2.2	2.2
45°	0.0	2.2	5.5	0.5	0.0
47.5°	0.0	0.0	1.1	0.0	0.0
50°	0.0	1.1	0.0	0.0	0.0
52.5°	1.1	0.0	0.0	0.0	0.0
55°	2.2	2.7	1.1	0.5	0.0
57.5°	3.3	2.7	1.1	1.1	1.1
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.1	0.5	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	5.5	1.1	1.6	1.1	2.2
80°	1.1	0.0	0.0	0.0	0.0
82.5°	2.2	0.0	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.0	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	2.2	1.6	0.0	0.0	2.2



(END OF REPORT)