

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: P281488

Luminaire Tested: **LDA2B108030D010 EU2B10SP158030 2LBASQC1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281488  
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: LDA2B108030D010 EU2B10SP158030 2LBASQC1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1081.9 lumens  
Efficiency: N/A  
Efficacy: 108.2 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

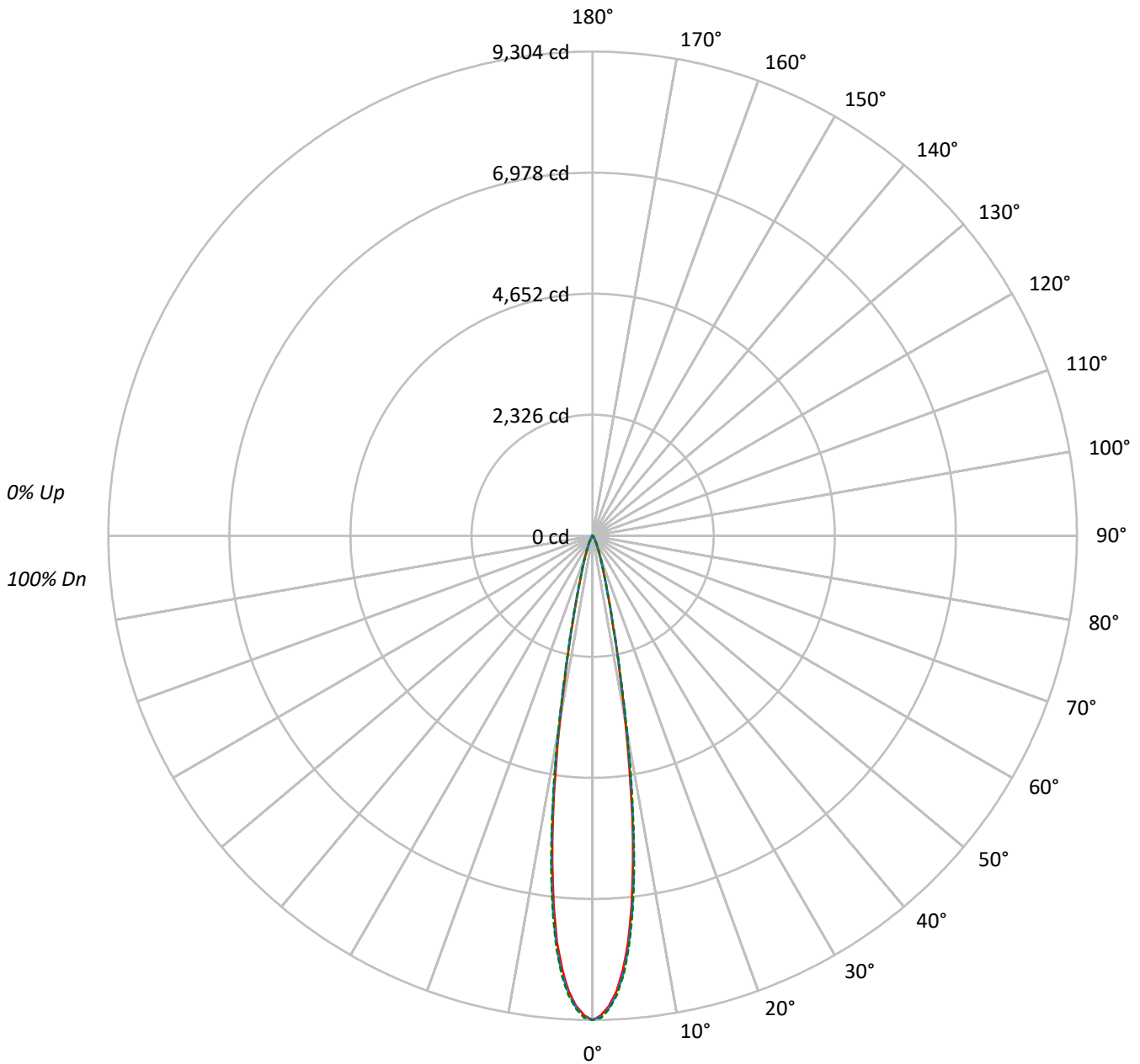
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	101	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	87	86	85	84						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°	4590139	4590139	4590139
5°	3885010	3925620	3942706
10°	1816677	1885511	1889168
15°	532116	539828	539573
20°	213685	213948	214210
25°	95264	104953	97550
30°	40505	55658	36916
35°	18550	25778	17286
40°	6054	10111	5410
45°	0	3628	0
50°	0	0	0
55°	1806	860	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2841	0	0
85°	5661	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.9	56.8
10°-20°	348.5	32.2
20°-30°	91.0	8.4
30°-40°	23.5	2.2
40°-50°	2.3	0.2
50°-60°	0.7	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°	1054.3	97.5
0°-40°	1077.8	99.6
0°-60°	1080.8	99.9
0°-90°	1081.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9304	9304	9304	9304	9304	
5°	7845	7915	7927	7876	7961	607
15°	1042	1056	1057	1045	1056	342
25°	175	190	193	184	179	87
35°	31	33	43	29	29	21
45°	0	2	5	0	0	2
55°	2	3	1	0	0	1
65°	0	0	0	0	0	0
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°	9303.8	9303.8	9303.8	9303.8	9303.8
1°	9216.5	9253.1	9242.1	9229.1	9265.7
2°	9038.9	9074.4	9071.3	9054.1	9096.9
3°	8765.1	8814.8	8814.8	8789.2	8842.5
4°	8357.1	8432.9	8440.2	8404.1	8470.5
5°	7844.6	7914.6	7926.6	7876.5	7961.1
6°	7150.3	7245.9	7273.0	7215.0	7301.8
7°	6352.5	6452.8	6494.1	6429.3	6526.4
8°	5492.0	5564.1	5613.7	5539.5	5638.3
9°	4529.1	4633.1	4678.5	4606.4	4702.6
10°	3626.3	3721.9	3763.7	3746.5	3771.0
11°	2816.5	2901.2	2929.4	2905.9	2917.4
12°	2205.3	2239.2	2257.5	2241.8	2249.7
13°	1674.5	1719.9	1728.3	1721.5	1725.1
14°	1307.7	1329.6	1339.0	1335.9	1337.5
15°	1041.8	1055.9	1056.9	1044.9	1056.4
16°	839.1	850.0	854.7	842.2	857.3
17°	687.5	696.4	701.7	689.1	695.4
18°	565.8	572.6	579.9	568.9	578.4
19°	474.9	479.1	479.6	476.5	479.1
20°	407.0	404.9	407.5	401.8	408.0
22.5°	268.0	273.2	279.5	272.7	275.3
25°	175.0	189.6	192.8	183.9	179.2
26°	144.2	163.0	171.4	157.3	142.1
27°	119.6	133.2	144.2	125.4	113.4
28°	105.0	116.5	127.5	109.7	95.6
29°	87.8	99.3	118.1	97.7	88.8
30°	71.1	79.4	97.7	74.2	64.8
32.5°	40.2	47.0	63.2	43.9	36.0
35°	30.8	32.9	42.8	29.3	28.7
37.5°	26.6	24.0	33.4	24.0	19.3
40°	9.4	14.1	15.7	10.4	8.4
42.5°	4.2	4.2	6.8	2.1	2.1
45°	0.0	2.1	5.2	0.5	0.0
47.5°	0.0	0.0	1.0	0.0	0.0
50°	0.0	1.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	0.0	0.0
55°	2.1	2.6	1.0	0.5	0.0
57.5°	3.1	2.6	1.0	1.0	1.0
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°	1.0	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°	5.2	1.0	1.6	1.0	2.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	2.1	0.0	0.0	0.0	0.0
85°	1.0	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°	2.1	1.6	0.0	0.0	2.1



(END OF REPORT)