

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: P315942

Luminaire Tested: **LDA2B10SP9030D010 PINW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B10SP9030D010 PINW1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus, matte white finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.8 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

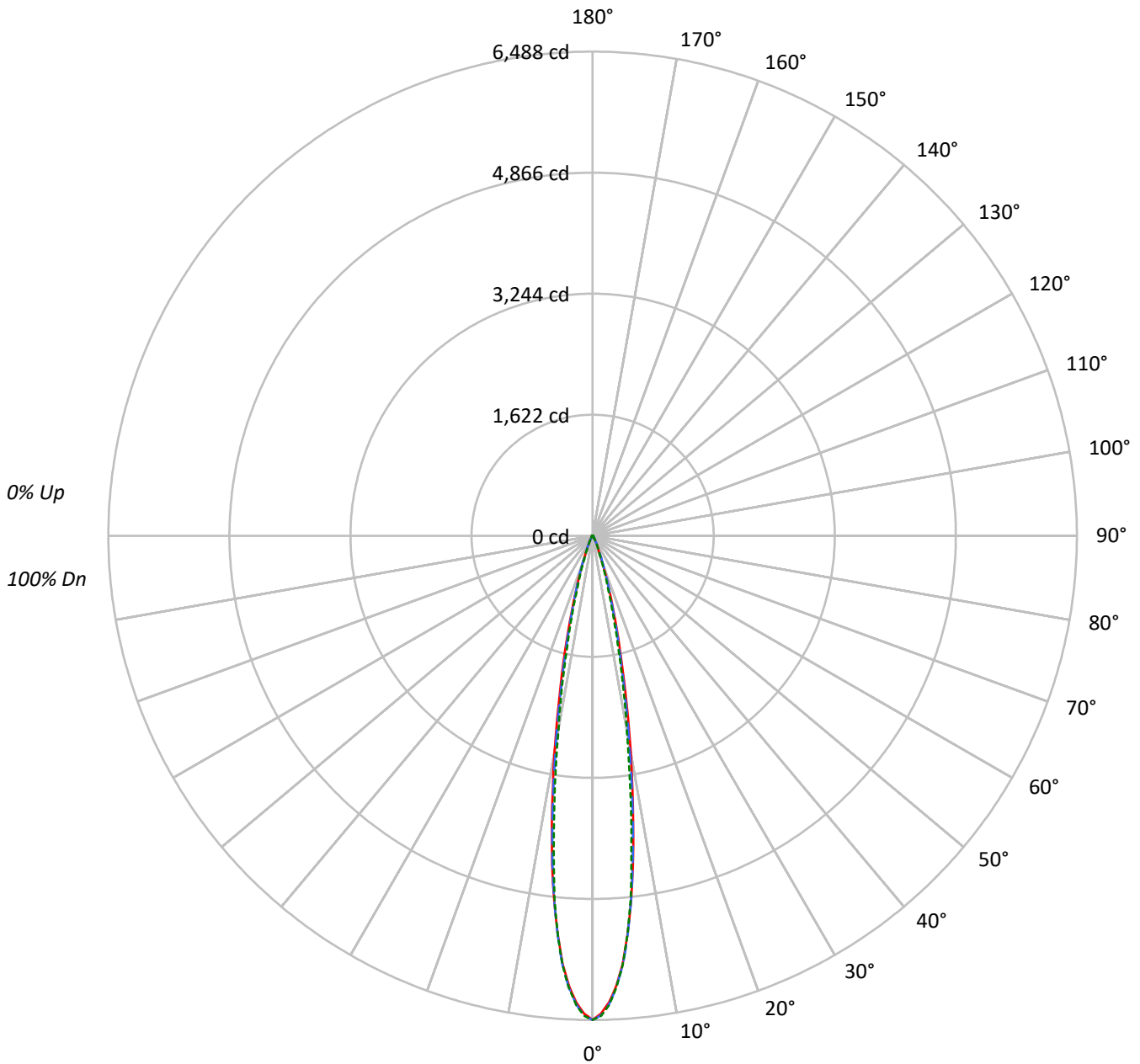
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96	96															
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	95	94	92	94															
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	95	94	92	91	95	94	92	91															
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	94	92	90	89															
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	92	89	88	87															
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	90	88	86	85															
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	88	86	84	83															
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	87	84	82	81															
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	85	82	81	80															
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	84	81	79	78															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3200685	3200685	3200685
5°	2655263	2663881	2653778
10°	1469603	1416500	1319562
15°	594940	568993	505198
20°	199299	211322	171106
25°	75830	76102	72019
30°	34010	33441	32301
35°	16503	14696	11684
40°	10884	13782	9596
45°	2791	4535	4186
50°	768	1151	1535
55°	6881	6021	9376
60°	9867	7894	12729
65°	4670	12141	11674
70°	4327	3606	4327
75°	1906	4766	13343
80°	22729	30969	28412
85°	0	14152	16982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	48.7
10°-20°	321.9	36.9
20°-30°	73.2	8.4
30°-40°	21.6	2.5
40°-50°	7.2	0.8
50°-60°	6.4	0.7
60°-70°	7.6	0.9
70°-80°	4.9	0.6
80°-90°	5.1	0.6
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°	819.9	93.9
0°-40°	841.5	96.4
0°-60°	855.1	98.0
0°-90°	872.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6488	6488	6488	6488	6488	
5°	5362	5404	5379	5309	5358	430
15°	1165	1181	1114	1010	989	338
25°	139	150	140	138	132	73
35°	27	30	24	28	19	22
45°	4	11	6	11	6	6
55°	8	11	7	10	11	3
65°	4	8	10	10	10	4
75°	1	4	2	4	7	2
85°	0	0	2	2	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6487.5	6487.5	6487.5	6487.5	6487.5
1°	6403.9	6429.8	6427.3	6416.8	6435.2
2°	6256.6	6288.0	6285.0	6262.1	6294.9
3°	6040.7	6068.5	6064.1	6031.2	6067.1
4°	5752.1	5783.9	5771.5	5722.3	5768.0
5°	5361.5	5403.8	5378.9	5308.8	5358.5
6°	4928.7	4964.5	4925.2	4832.1	4880.9
7°	4444.1	4466.5	4414.7	4295.3	4262.5
8°	3915.2	3944.5	3872.4	3733.1	3697.2
9°	3409.7	3419.6	3332.1	3183.8	3138.5
10°	2933.5	2926.1	2827.5	2677.3	2634.0
11°	2482.2	2472.3	2368.3	2229.5	2243.4
12°	2071.8	2091.2	1970.3	1844.4	1846.9
13°	1734.4	1736.4	1632.4	1512.5	1505.6
14°	1420.0	1438.4	1349.3	1241.9	1222.0
15°	1164.8	1180.7	1114.0	1009.5	989.1
16°	932.4	952.3	904.5	810.0	783.1
17°	750.8	776.2	744.8	665.7	634.9
18°	600.5	619.9	612.5	530.9	505.5
19°	474.2	501.0	503.0	434.9	404.5
20°	379.6	404.0	402.5	349.8	325.9
22.5°	217.9	230.9	231.4	206.5	192.5
25°	139.3	149.8	139.8	138.3	132.3
26°	120.9	129.4	118.4	118.4	112.9
27°	98.0	105.5	95.0	99.5	92.0
28°	82.6	90.6	81.6	80.6	79.6
29°	68.7	76.1	64.7	69.7	66.7
30°	59.7	65.2	58.7	66.2	56.7
32.5°	46.3	50.7	39.3	49.8	37.3
35°	27.4	30.4	24.4	28.4	19.4
37.5°	28.4	29.4	26.4	29.4	27.4
40°	16.9	17.4	21.4	21.4	14.9
42.5°	15.9	15.4	9.5	14.9	11.9
45°	4.0	11.4	6.5	11.4	6.0
47.5°	3.0	4.0	4.0	8.0	8.0
50°	1.0	4.0	1.5	3.0	2.0
52.5°	0.0	9.5	2.0	7.0	6.0
55°	8.0	11.4	7.0	10.4	10.9
57.5°	1.0	8.0	4.0	8.5	6.0
60°	10.0	13.4	8.0	14.4	12.9
62.5°	1.0	9.0	10.4	8.0	7.0
65°	4.0	8.5	10.4	10.0	10.0
67.5°	5.0	8.5	6.5	6.5	9.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	1.0	3.5	2.5	4.5	7.0
77.5°	1.0	4.0	3.5	8.0	6.0
80°	8.0	9.0	10.9	14.4	10.0
82.5°	7.0	7.0	10.9	8.0	6.0
85°	0.0	0.0	2.5	2.5	3.0
87.5°	0.0	2.0	5.0	4.0	7.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	3.0	1.0	2.5	2.5	3.0
72.5°	1.0	4.5	4.0	2.5	5.0



(END OF REPORT)