

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: P314821

Luminaire Tested: **LDA2B15SP9727D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B15SP9727D010 PIN1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus, matte metallic silver finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.5 lumens
Efficiency: N/A
Efficacy: 71.0 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

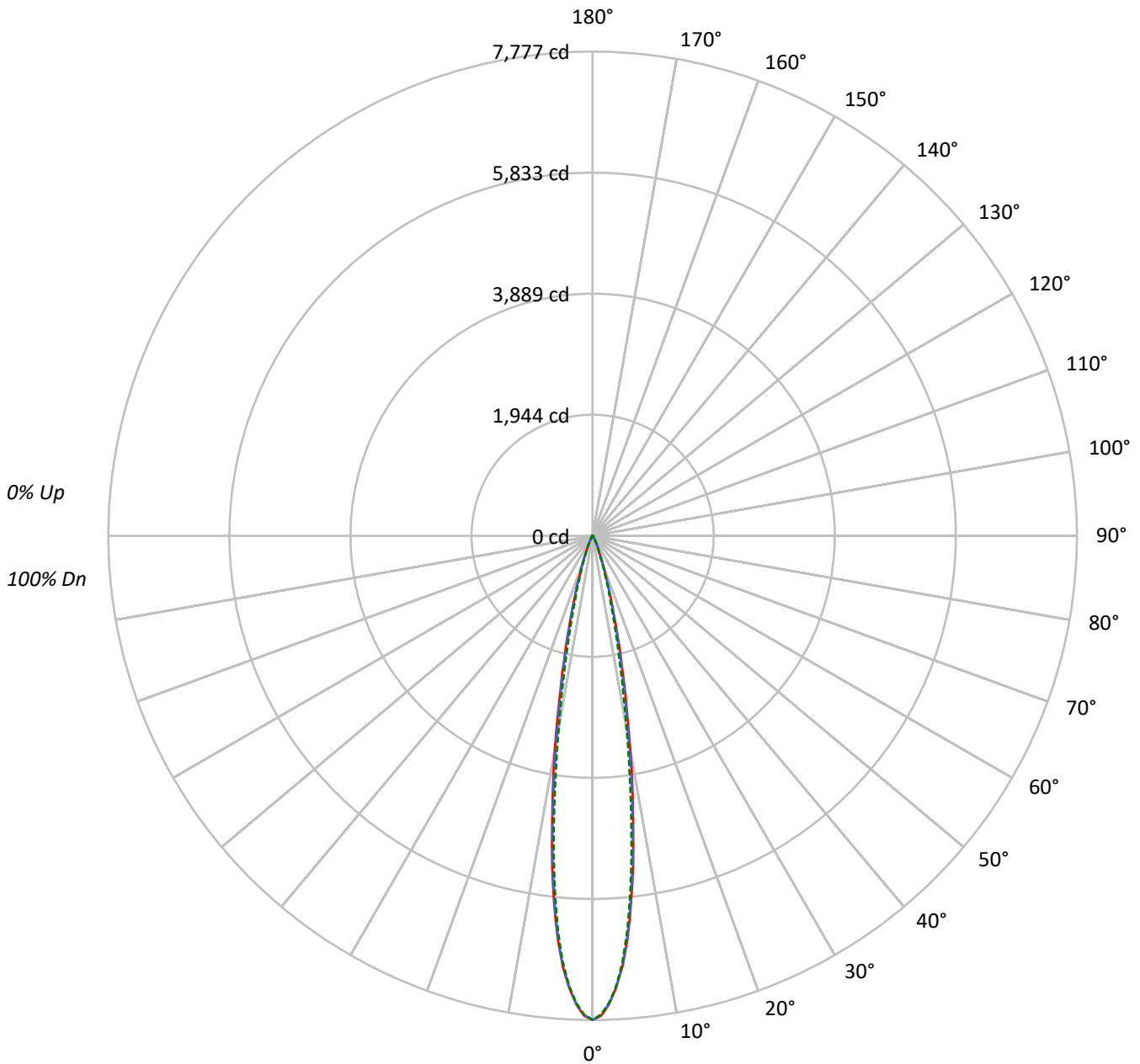
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3836825	3836825	3836825
5°	3205482	3190179	3152392
10°	1746441	1678409	1571000
15°	692394	674773	579208
20°	232638	248599	205442
25°	80729	87207	77518
30°	29510	32244	31561
35°	19032	22224	16864
40°	9983	11915	12301
45°	9140	7047	6628
50°	5449	3684	2763
55°	0	0	0
60°	3552	3552	1184
65°	2802	700	0
70°	0	2596	3462
75°	0	5719	0
80°	0	0	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.5	50.8
10°-20°	378.5	37.8
20°-30°	83.7	8.4
30°-40°	18.6	1.9
40°-50°	7.6	0.8
50°-60°	1.3	0.1
60°-70°	1.3	0.1
70°-80°	1.0	0.1
80°-90°	1.0	0.1
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°	970.6	96.9
0°-40°	989.3	98.8
0°-60°	998.1	99.7
0°-90°	1001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7777	7777	7777	7777	7777	
5°	6472	6446	6442	6417	6365	516
15°	1356	1351	1321	1198	1134	398
25°	148	166	160	148	142	81
35°	32	32	37	30	28	18
45°	13	11	10	10	10	8
55°	0	0	0	0	0	2
65°	2	1	1	0	0	2
75°	0	0	3	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7776.9	7776.9	7776.9	7776.9	7776.9
1°	7713.2	7681.6	7697.1	7706.1	7693.0
2°	7533.3	7495.2	7519.6	7522.0	7508.9
3°	7265.3	7248.0	7255.8	7258.8	7232.5
4°	6922.2	6897.2	6902.6	6896.0	6863.9
5°	6472.5	6445.7	6441.6	6417.1	6365.3
6°	5922.8	5907.3	5879.3	5837.6	5768.5
7°	5333.7	5321.2	5273.0	5197.9	5118.1
8°	4688.1	4688.1	4618.4	4514.8	4423.6
9°	4077.0	4054.3	3965.6	3840.5	3752.4
10°	3486.1	3455.8	3350.3	3223.5	3135.9
11°	2926.8	2894.7	2793.4	2663.6	2582.6
12°	2443.8	2426.5	2347.9	2205.0	2124.0
13°	2035.8	2013.2	1944.1	1808.9	1739.8
14°	1680.2	1651.6	1596.2	1472.4	1405.1
15°	1355.6	1351.4	1321.1	1197.8	1134.0
16°	1107.8	1105.5	1076.9	956.6	930.3
17°	889.3	901.8	893.4	782.6	752.9
18°	692.1	717.1	723.1	623.0	593.2
19°	556.9	580.7	590.8	503.3	478.3
20°	443.1	465.8	473.5	408.0	391.3
22.5°	251.3	281.7	282.9	249.0	231.7
25°	148.3	165.6	160.2	148.3	142.4
26°	124.5	141.2	132.8	129.2	124.5
27°	104.8	116.1	109.6	103.6	107.8
28°	87.0	94.7	88.2	89.9	83.4
29°	69.1	82.2	72.7	74.5	69.1
30°	51.8	63.7	56.6	59.6	55.4
32.5°	38.7	42.3	37.5	42.3	42.3
35°	31.6	31.6	36.9	29.8	28.0
37.5°	14.3	11.3	12.5	10.1	11.9
40°	15.5	17.3	18.5	15.5	19.1
42.5°	10.7	14.3	14.3	9.5	16.7
45°	13.1	10.7	10.1	10.1	9.5
47.5°	6.0	4.2	4.8	5.4	8.3
50°	7.1	3.0	4.8	7.1	3.6
52.5°	2.4	0.0	3.0	0.0	1.2
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.6	1.2	0.0
60°	3.6	4.2	3.6	2.4	1.2
62.5°	6.0	1.2	1.8	2.4	0.0
65°	2.4	1.2	0.6	0.0	0.0
67.5°	0.0	0.0	1.8	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.0	0.0	0.0
77.5°	1.2	0.0	2.4	0.0	0.0
80°	0.0	1.2	0.0	0.0	0.0
82.5°	0.0	0.0	3.0	2.4	0.0
85°	0.0	0.6	0.6	1.8	0.0
87.5°	0.0	1.8	2.4	0.6	1.2
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	1.8	1.2	2.4
72.5°	0.0	0.6	2.4	3.6	1.2



(END OF REPORT)