

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: P282345

Luminaire Tested: **LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159050D010 EU2B15NFL259050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1147.5 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

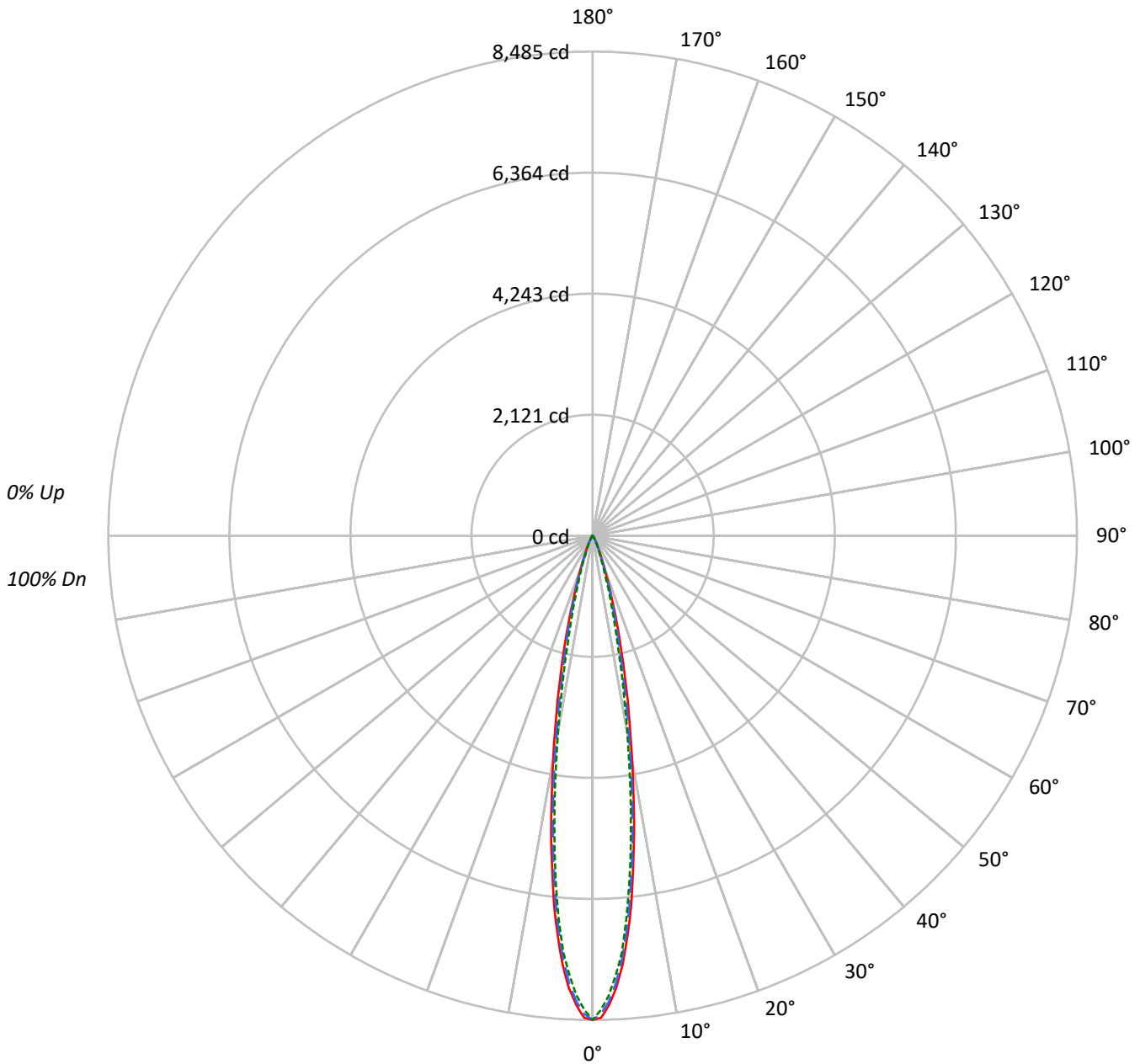
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282345

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4186027	4186027	4186027
5°	3483216	3419379	3350342
10°	1995174	1872235	1747343
15°	887404	788111	660471
20°	321945	302677	239831
25°	123625	115405	99401
30°	53323	49563	43980
35°	25236	25236	20899
40°	12623	13074	10562
45°	7326	6838	6419
50°	4989	4528	4528
55°	3957	2838	3355
60°	3256	1973	2565
65°	2335	1518	2335
70°	1875	1010	1875
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.8	48.1
10°-20°	446.6	38.9
20°-30°	107.7	9.4
30°-40°	27.5	2.4
40°-50°	8.2	0.7
50°-60°	3.5	0.3
60°-70°	1.7	0.1
70°-80°	0.6	0.1
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°	1106.1	96.4
0°-40°	1133.6	98.8
0°-60°	1145.2	99.8
0°-90°	1147.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8485	8485	8485	8485	8485	
5°	7033	6968	6904	6844	6765	569
15°	1737	1696	1543	1390	1293	495
25°	227	228	212	192	183	117
35°	42	42	42	38	35	29
45°	10	10	10	9	9	9
55°	5	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	8484.7	8484.7	8484.7	8484.7	8484.7
1°	8446.8	8387.9	8380.7	8417.3	8309.3
2°	8230.8	8188.9	8164.7	8186.3	8063.9
3°	7934.4	7893.8	7850.0	7850.6	7713.9
4°	7530.6	7498.6	7424.6	7402.4	7323.2
5°	7033.3	6968.5	6904.4	6844.2	6765.0
6°	6483.6	6399.9	6308.2	6218.6	6137.4
7°	5837.1	5781.5	5660.4	5538.0	5469.3
8°	5229.2	5139.5	4998.2	4845.0	4786.8
9°	4575.4	4511.3	4349.0	4171.0	4112.8
10°	3982.6	3915.8	3737.2	3538.9	3487.9
11°	3426.3	3363.5	3177.7	2969.6	2915.3
12°	2955.8	2866.8	2653.5	2472.9	2419.9
13°	2487.3	2426.4	2224.2	2045.6	1942.9
14°	2088.8	2038.4	1855.2	1698.1	1589.5
15°	1737.4	1696.2	1543.0	1389.9	1293.1
16°	1425.2	1399.7	1278.7	1130.8	1051.6
17°	1156.3	1132.7	1055.5	919.4	852.7
18°	933.8	930.5	866.4	748.6	689.1
19°	768.2	766.9	708.0	609.2	560.2
20°	613.2	621.7	576.5	490.1	456.8
21°	499.9	504.5	468.5	403.1	373.0
22°	407.0	410.3	386.7	333.1	316.7
23°	333.7	335.7	316.1	276.1	261.8
24°	274.8	276.1	258.5	230.3	217.9
25°	227.1	228.4	212.0	192.4	182.6
26°	188.5	189.8	175.4	161.6	151.8
27°	156.4	159.0	144.6	136.1	125.6
28°	133.5	134.1	121.1	115.8	106.0
29°	109.3	113.2	102.1	97.5	90.3
30°	93.6	95.5	87.0	83.8	77.2
32.5°	62.2	63.5	59.5	56.9	51.7
35°	41.9	42.5	41.9	38.0	34.7
37.5°	28.8	28.8	29.4	24.9	23.6
40°	19.6	19.6	20.3	17.0	16.4
42.5°	14.4	14.4	13.7	11.8	11.8
45°	10.5	10.5	9.8	9.2	9.2
47.5°	8.5	7.9	7.2	7.2	7.2
50°	6.5	6.5	5.9	5.2	5.9
52.5°	5.2	5.2	4.6	4.6	4.6
55°	4.6	3.9	3.3	3.3	3.9
57.5°	3.3	3.3	2.6	2.6	3.3
60°	3.3	2.6	2.0	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.0	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.7	0.7	1.3
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°







62.5°	2.6	2.0	2.0	2.0	2.0
65°	2.0	2.0	1.3	1.3	2.0



(END OF REPORT)