

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: P282250

Luminaire Tested: **LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282250
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: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.4 lumens
Efficiency: N/A
Efficacy: 82.2 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

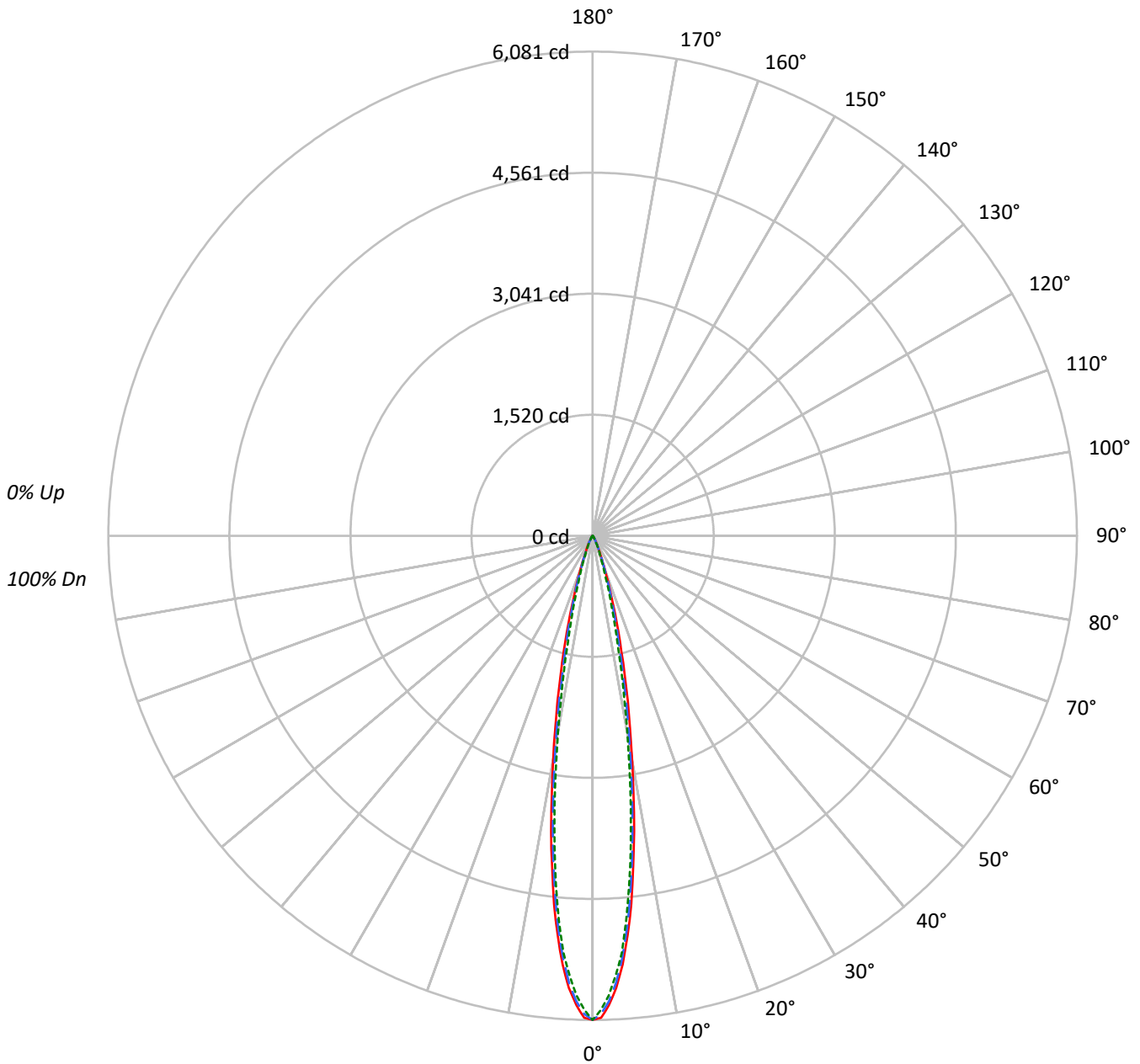
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3000182	3000182	3000182
5°	2496438	2450677	2401202
10°	1429926	1341855	1252332
15°	636005	564856	473327
20°	230748	216940	171893
25°	88568	82743	71257
30°	38226	35548	31504
35°	18069	18069	14997
40°	9081	9339	7535
45°	5233	4884	4605
50°	3607	3224	3224
55°	2838	1978	2408
60°	2269	1381	1875
65°	1634	1051	1634
70°	1298	721	1298
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	48.1
10°-20°	320.1	38.9
20°-30°	77.2	9.4
30°-40°	19.7	2.4
40°-50°	5.9	0.7
50°-60°	2.5	0.3
60°-70°	1.2	0.1
70°-80°	0.4	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°	792.8	96.4
0°-40°	812.4	98.8
0°-60°	820.8	99.8
0°-90°	822.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6081	6081	6081	6081	6081	
5°	5041	4994	4948	4905	4848	408
15°	1245	1216	1106	996	927	355
25°	163	164	152	138	131	84
35°	30	30	30	27	25	21
45°	8	8	7	7	7	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6081.1	6081.1	6081.1	6081.1	6081.1
1°	6053.9	6011.7	6006.5	6032.8	5955.4
2°	5899.1	5869.1	5851.7	5867.2	5779.5
3°	5686.7	5657.6	5626.1	5626.6	5528.6
4°	5397.3	5374.3	5321.3	5305.4	5248.6
5°	5040.8	4994.4	4948.4	4905.3	4848.5
6°	4646.9	4586.8	4521.2	4456.9	4398.8
7°	4183.5	4143.6	4056.9	3969.2	3919.9
8°	3747.8	3683.5	3582.2	3472.5	3430.8
9°	3279.3	3233.3	3117.0	2989.4	2947.7
10°	2854.3	2806.5	2678.5	2536.4	2499.8
11°	2455.7	2410.7	2277.5	2128.3	2089.4
12°	2118.5	2054.7	1901.8	1772.4	1734.4
13°	1782.7	1739.1	1594.1	1466.1	1392.5
14°	1497.1	1460.9	1329.6	1217.1	1139.2
15°	1245.2	1215.7	1105.9	996.2	926.7
16°	1021.5	1003.2	916.4	810.4	753.7
17°	828.7	811.8	756.5	658.9	611.1
18°	669.3	666.9	621.0	536.5	493.9
19°	550.6	549.7	507.5	436.6	401.5
20°	439.5	445.6	413.2	351.3	327.4
21°	358.3	361.6	335.8	288.9	267.3
22°	291.7	294.1	277.2	238.7	227.0
23°	239.2	240.6	226.5	197.9	187.6
24°	197.0	197.9	185.3	165.1	156.2
25°	162.7	163.7	152.0	137.9	130.9
26°	135.1	136.0	125.7	115.8	108.8
27°	112.1	114.0	103.6	97.6	90.0
28°	95.7	96.1	86.8	83.0	76.0
29°	78.3	81.1	73.2	69.9	64.7
30°	67.1	68.5	62.4	60.0	55.3
32.5°	44.6	45.5	42.7	40.8	37.1
35°	30.0	30.5	30.0	27.2	24.9
37.5°	20.6	20.6	21.1	17.8	16.9
40°	14.1	14.1	14.5	12.2	11.7
42.5°	10.3	10.3	9.8	8.4	8.4
45°	7.5	7.5	7.0	6.6	6.6
47.5°	6.1	5.6	5.2	5.2	5.2
50°	4.7	4.7	4.2	3.8	4.2
52.5°	3.8	3.8	3.3	3.3	3.3
55°	3.3	2.8	2.3	2.3	2.8
57.5°	2.3	2.3	1.9	1.9	2.3
60°	2.3	1.9	1.4	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.9
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	0.9	0.9	1.4



(END OF REPORT)