

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: P282643

Luminaire Tested: **LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282643
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: LDA2B059030D010 EU2B05NFL259030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 544.5 lumens
Efficiency: N/A
Efficacy: 77.8 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

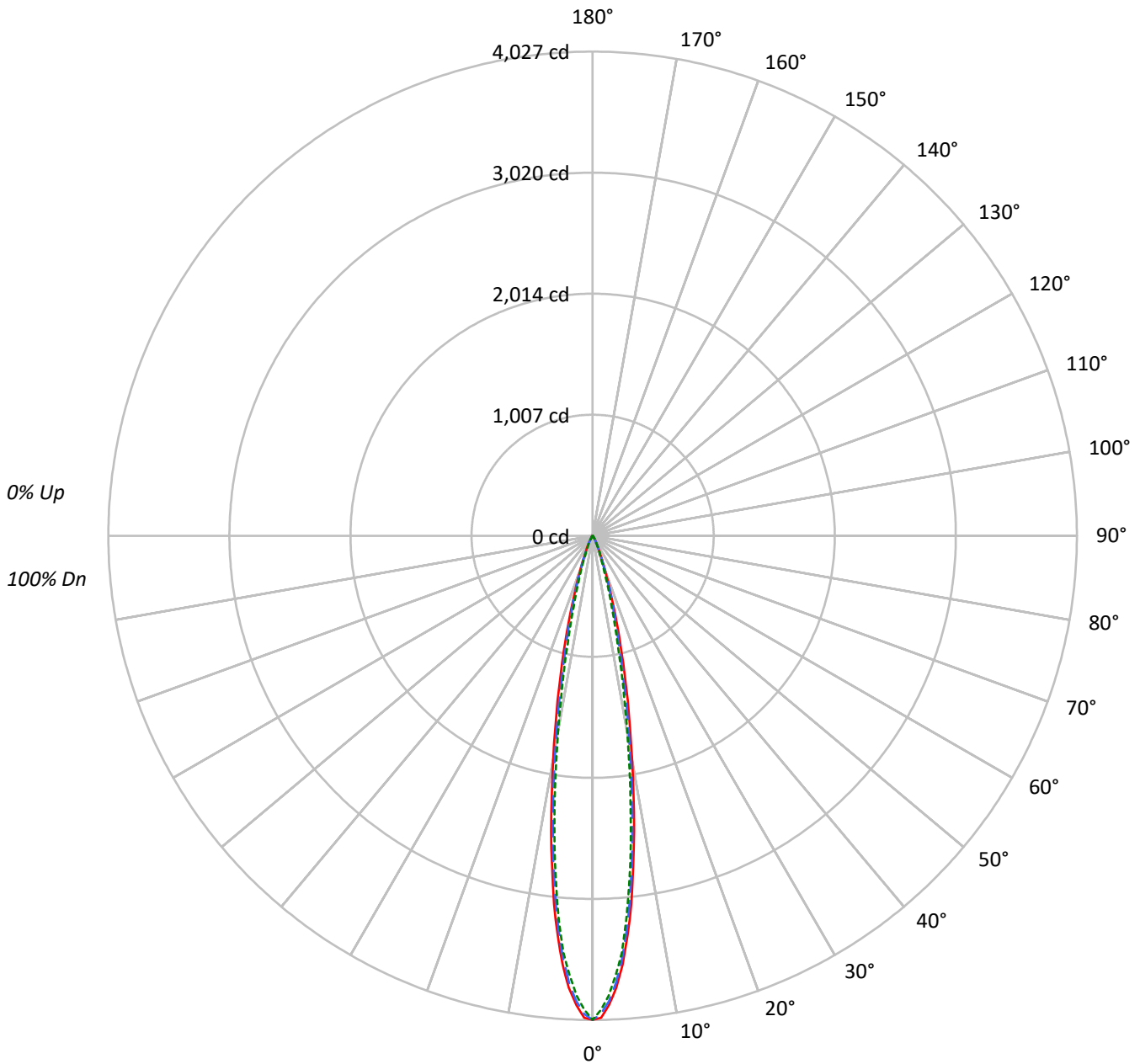
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	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°	1986571	1986571	1986571
5°	1653033	1622724	1589988
10°	946838	888475	829210
15°	421126	374034	313406
20°	152782	143647	113825
25°	58682	54763	47142
30°	25294	23528	20850
35°	11985	11985	9938
40°	5990	6183	5023
45°	3489	3279	3000
50°	2379	2149	2149
55°	1892	1376	1634
60°	1579	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	48.1
10°-20°	211.9	38.9
20°-30°	51.1	9.4
30°-40°	13.0	2.4
40°-50°	3.9	0.7
50°-60°	1.7	0.3
60°-70°	0.8	0.1
70°-80°	0.3	0.0
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°	524.9	96.4
0°-40°	538.0	98.8
0°-60°	543.5	99.8
0°-90°	544.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4027	4027	4027	4027	4027	
5°	3338	3307	3277	3248	3210	270
15°	824	805	732	660	614	235
25°	108	108	101	91	87	56
35°	20	20	20	18	16	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4026.6	4026.6	4026.6	4026.6	4026.6
1°	4008.6	3980.6	3977.2	3994.6	3943.4
2°	3906.1	3886.2	3874.7	3885.0	3826.9
3°	3765.4	3746.2	3725.4	3725.7	3660.8
4°	3573.8	3558.6	3523.5	3512.9	3475.4
5°	3337.8	3307.0	3276.6	3248.0	3210.5
6°	3076.9	3037.2	2993.7	2951.2	2912.6
7°	2770.1	2743.7	2686.3	2628.2	2595.6
8°	2481.6	2439.1	2372.0	2299.3	2271.7
9°	2171.4	2140.9	2063.9	1979.4	1951.8
10°	1890.0	1858.3	1773.5	1679.5	1655.2
11°	1626.0	1596.2	1508.0	1409.3	1383.5
12°	1402.8	1360.5	1259.3	1173.6	1148.4
13°	1180.4	1151.5	1055.6	970.8	922.0
14°	991.3	967.4	880.4	805.9	754.3
15°	824.5	804.9	732.3	659.6	613.6
16°	676.4	664.3	606.8	536.6	499.1
17°	548.7	537.6	500.9	436.3	404.6
18°	443.2	441.6	411.2	355.3	327.0
19°	364.6	364.0	336.0	289.1	265.8
20°	291.0	295.0	273.6	232.6	216.8
21°	237.3	239.4	222.4	191.3	177.0
22°	193.2	194.7	183.5	158.1	150.3
23°	158.4	159.3	150.0	131.1	124.2
24°	130.4	131.1	122.7	109.3	103.4
25°	107.8	108.4	100.6	91.3	86.6
26°	89.4	90.1	83.2	76.7	72.0
27°	74.2	75.5	68.6	64.6	59.6
28°	63.4	63.7	57.5	55.0	50.3
29°	51.9	53.7	48.4	46.3	42.9
30°	44.4	45.3	41.3	39.8	36.6
32.5°	29.5	30.1	28.3	27.0	24.5
35°	19.9	20.2	19.9	18.0	16.5
37.5°	13.7	13.7	14.0	11.8	11.2
40°	9.3	9.3	9.6	8.1	7.8
42.5°	6.8	6.8	6.5	5.6	5.6
45°	5.0	5.0	4.7	4.3	4.3
47.5°	4.0	3.7	3.4	3.4	3.4
50°	3.1	3.1	2.8	2.5	2.8
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.2	1.2	1.6
60°	1.6	1.2	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)