

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: P282188

Luminaire Tested: **LDA2B059730D010 EU2B05NFL259730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282188
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: LDA2B059730D010 EU2B05NFL259730 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 540.7 lumens
Efficiency: N/A
Efficacy: 77.2 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

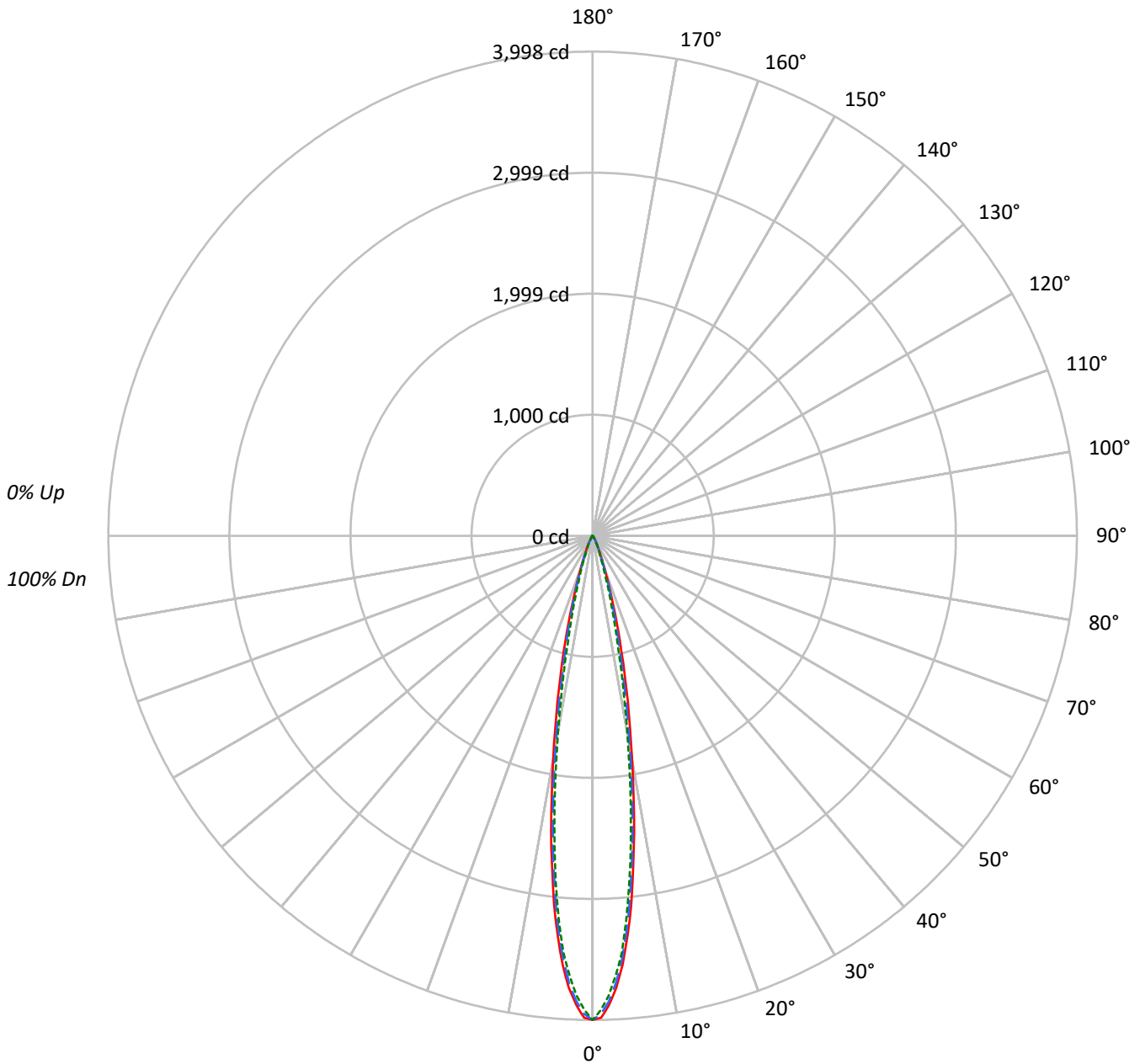
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1972510	1972510	1972510
5°	1641345	1611234	1578746
10°	940125	882213	823349
15°	418164	371378	311210
20°	151680	142649	112985
25°	58247	54382	46815
30°	25123	23357	20737
35°	11865	11865	9817
40°	5990	6183	4959
45°	3419	3210	3000
50°	2379	2149	2149
55°	1892	1290	1634
60°	1480	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°	260.0	48.1
10°-20°	210.4	38.9
20°-30°	50.7	9.4
30°-40°	12.9	2.4
40°-50°	3.9	0.7
50°-60°	1.6	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°	521.2	96.4
0°-40°	534.1	98.8
0°-60°	539.7	99.8
0°-90°	540.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3998	3998	3998	3998	3998	
5°	3314	3284	3253	3225	3188	268
15°	819	799	727	655	609	233
25°	107	108	100	91	86	55
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°	3998.1	3998.1	3998.1	3998.1	3998.1
1°	3980.2	3952.5	3949.1	3966.3	3915.5
2°	3878.5	3858.7	3847.3	3857.5	3799.8
3°	3738.8	3719.7	3699.0	3699.3	3634.9
4°	3548.5	3533.4	3498.6	3488.1	3450.8
5°	3314.2	3283.7	3253.4	3225.1	3187.8
6°	3055.2	3015.7	2972.5	2930.3	2892.0
7°	2750.5	2724.3	2667.3	2609.6	2577.2
8°	2464.0	2421.8	2355.2	2283.0	2255.6
9°	2156.0	2125.8	2049.3	1965.4	1938.0
10°	1876.6	1845.2	1761.0	1667.6	1643.5
11°	1614.5	1584.9	1497.4	1399.3	1373.7
12°	1392.8	1350.9	1250.4	1165.3	1140.3
13°	1172.1	1143.4	1048.1	963.9	915.5
14°	984.3	960.5	874.2	800.2	749.0
15°	818.7	799.3	727.1	654.9	609.3
16°	671.6	659.6	602.5	532.8	495.5
17°	544.9	533.8	497.4	433.2	401.8
18°	440.0	438.5	408.3	352.8	324.7
19°	362.0	361.4	333.6	287.1	264.0
20°	288.9	292.9	271.7	231.0	215.2
21°	235.6	237.7	220.8	189.9	175.8
22°	191.8	193.3	182.2	157.0	149.2
23°	157.3	158.2	148.9	130.1	123.3
24°	129.5	130.1	121.8	108.5	102.7
25°	107.0	107.6	99.9	90.7	86.0
26°	88.8	89.4	82.6	76.2	71.5
27°	73.7	74.9	68.1	64.1	59.2
28°	62.9	63.2	57.0	54.6	50.0
29°	51.5	53.3	48.1	45.9	42.6
30°	44.1	45.0	41.0	39.5	36.4
32.5°	29.3	29.9	28.1	26.8	24.4
35°	19.7	20.0	19.7	17.9	16.3
37.5°	13.6	13.6	13.9	11.7	11.1
40°	9.3	9.3	9.6	8.0	7.7
42.5°	6.8	6.8	6.5	5.6	5.6
45°	4.9	4.9	4.6	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	1.5	1.5	1.9
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	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)