

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: P283705

Luminaire Tested: **LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 865.8 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

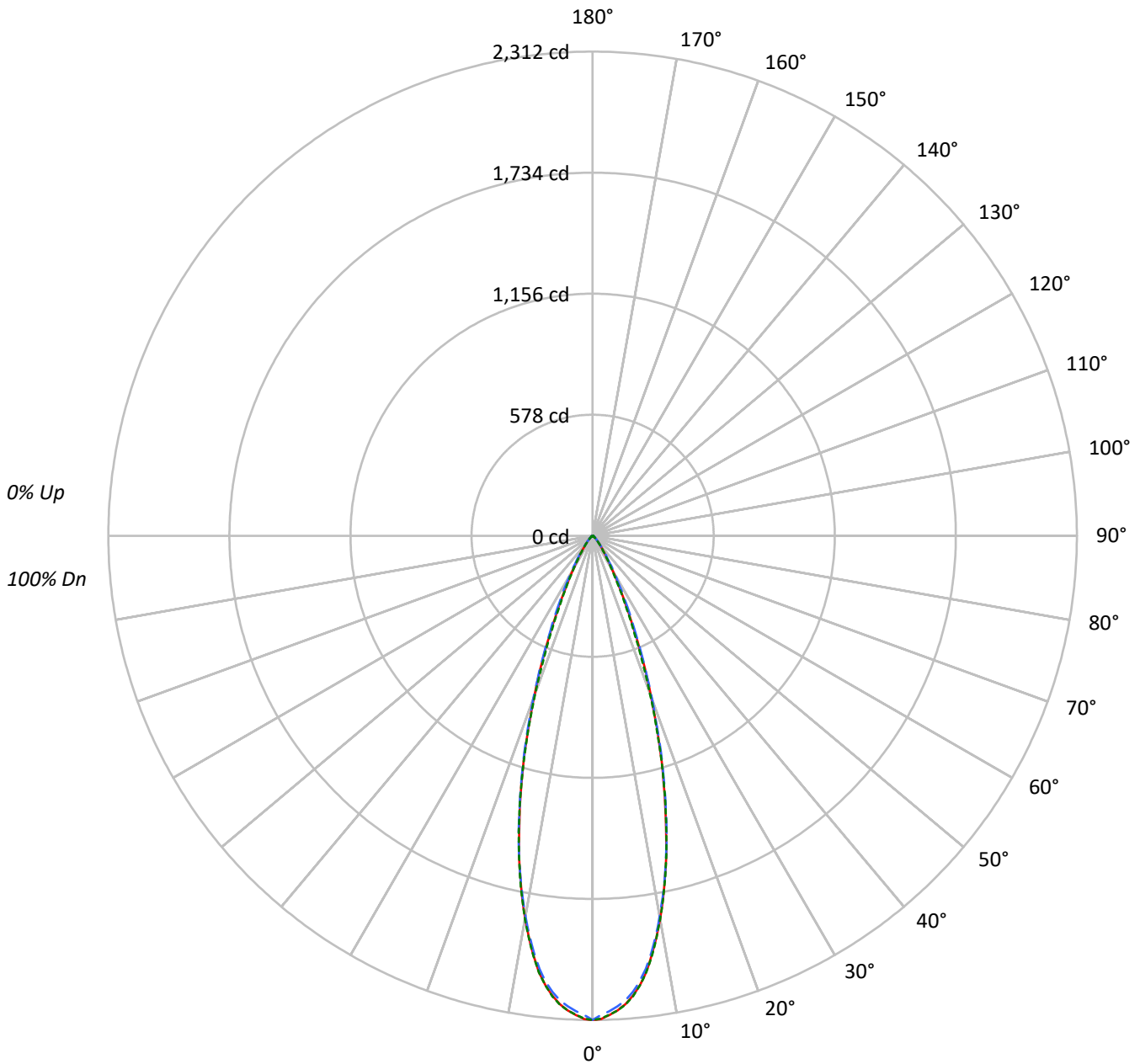
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1140751	1140751	1140751
5°	1091721	1083549	1093405
10°	930106	924245	931058
15°	685550	689993	687746
20°	427948	435875	418497
25°	221066	237180	209961
30°	105961	121457	101005
35°	54687	60590	51194
40°	30656	32202	29111
45°	18629	18629	17931
50°	9671	11897	9671
55°	4989	7913	5419
60°	5723	5723	5723
65°	6187	6187	6187
70°	7645	7068	7645
75°	7434	7434	7434
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	23.0
10°-20°	365.3	42.2
20°-30°	198.1	22.9
30°-40°	63.6	7.3
40°-50°	21.7	2.5
50°-60°	7.6	0.9
60°-70°	5.5	0.6
70°-80°	4.0	0.5
80°-90°	1.2	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°	762.3	88.0
0°-40°	825.8	95.4
0°-60°	855.1	98.8
0°-90°	865.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2204	2191	2188	2210	2208	199
15°	1342	1353	1351	1357	1346	364
25°	406	425	436	406	386	195
35°	91	95	101	91	85	61
45°	27	27	27	27	26	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.2	2312.2	2312.2	2312.2	2312.2
1°	2308.3	2291.8	2289.4	2310.8	2305.9
2°	2289.9	2274.3	2271.9	2293.3	2288.9
3°	2269.5	2255.4	2250.5	2272.9	2270.0
4°	2242.3	2229.2	2224.8	2247.1	2244.7
5°	2204.4	2190.8	2187.9	2209.7	2207.8
6°	2157.8	2146.6	2141.2	2163.1	2159.2
7°	2099.5	2089.3	2083.4	2099.5	2101.4
8°	2023.7	2018.8	2012.0	2028.1	2028.1
9°	1943.0	1938.7	1931.4	1946.0	1946.0
10°	1856.6	1853.7	1844.9	1858.5	1858.5
11°	1761.9	1760.4	1754.1	1765.3	1765.3
12°	1662.3	1665.7	1659.8	1669.6	1666.2
13°	1562.7	1561.2	1561.7	1569.0	1563.7
14°	1450.0	1458.7	1460.2	1464.6	1456.3
15°	1342.2	1353.3	1350.9	1357.2	1346.5
16°	1231.9	1244.5	1244.0	1245.5	1235.3
17°	1128.9	1136.2	1136.7	1135.2	1122.6
18°	1019.1	1029.3	1029.3	1026.9	1011.8
19°	911.8	919.5	924.9	919.5	902.1
20°	815.1	820.5	830.2	816.6	797.1
21°	722.3	727.2	735.4	719.4	698.0
22°	633.4	639.7	647.5	629.1	606.7
23°	550.4	564.9	567.9	542.6	523.7
24°	474.1	490.6	495.5	469.7	449.8
25°	406.1	424.6	435.7	405.6	385.7
26°	347.3	365.3	378.9	348.8	329.8
27°	295.8	314.8	328.9	300.7	282.7
28°	251.6	270.1	284.7	258.4	241.4
29°	218.6	229.3	243.9	222.0	206.4
30°	186.0	197.7	213.2	190.9	177.3
32.5°	127.8	134.1	146.2	132.6	121.9
35°	90.8	94.7	100.6	91.3	85.0
37.5°	64.6	66.5	69.9	64.6	61.2
40°	47.6	48.6	50.0	47.1	45.2
42.5°	35.5	35.9	35.9	35.0	34.0
45°	26.7	27.2	26.7	26.7	25.7
47.5°	19.4	20.9	20.4	20.4	18.9
50°	12.6	15.5	15.5	15.1	12.6
52.5°	7.8	10.7	12.1	10.7	8.3
55°	5.8	7.3	9.2	7.3	6.3
57.5°	5.8	5.8	6.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.9	5.3	5.3
72.5°	4.9	4.9	4.4	4.9	4.4
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.5	1.5	1.5	1.9	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.3	5.8	5.3	5.8	5.3



(END OF REPORT)