

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: P283704

Luminaire Tested: **LDA2B159730D010 EU2B15FL409730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283704
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.7 lumens
Efficiency: N/A
Efficacy: 60.5 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

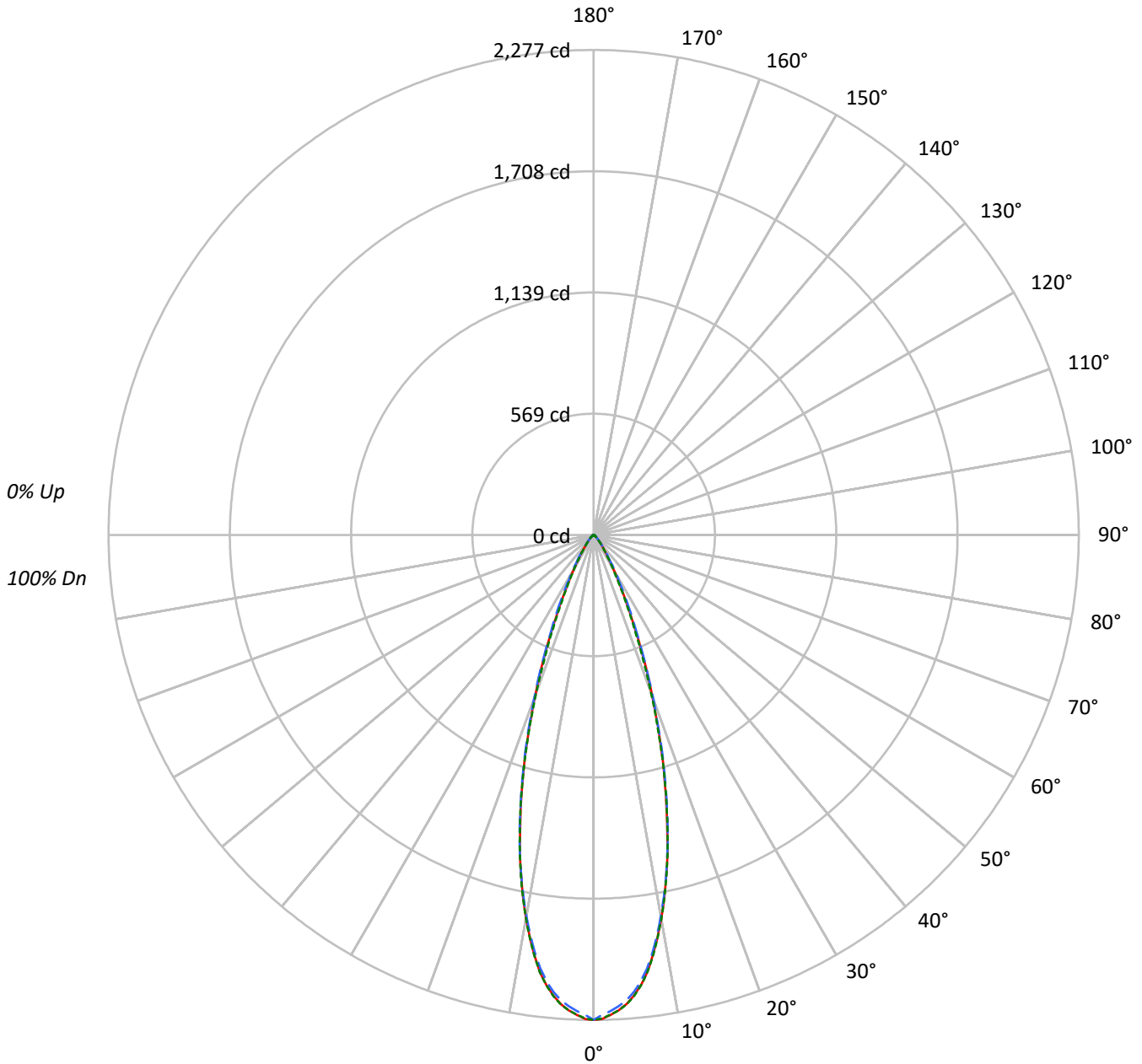
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1123434	1123434	1123434
5°	1075130	1067058	1076765
10°	915978	910217	916930
15°	675130	679523	677326
20°	421437	429260	412144
25°	217691	233587	206750
30°	104366	119634	99467
35°	53904	59626	50411
40°	30205	31751	28660
45°	18350	18350	17722
50°	9517	11743	9517
55°	4903	7827	5333
60°	5624	5624	5624
65°	6187	6187	6187
70°	7645	6924	7645
75°	7244	7244	7244
80°	6819	6819	6819
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	23.0
10°-20°	359.8	42.2
20°-30°	195.0	22.9
30°-40°	62.6	7.3
40°-50°	21.3	2.5
50°-60°	7.5	0.9
60°-70°	5.4	0.6
70°-80°	4.0	0.5
80°-90°	1.1	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°	750.7	88.0
0°-40°	813.3	95.4
0°-60°	842.1	98.8
0°-90°	852.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2171	2158	2155	2176	2174	196
15°	1322	1333	1330	1337	1326	358
25°	400	418	429	399	380	192
35°	90	93	99	90	84	60
45°	26	27	26	26	25	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°	2277.1	2277.1	2277.1	2277.1	2277.1
1°	2273.3	2257.0	2254.6	2275.7	2270.9
2°	2255.1	2239.8	2237.4	2258.4	2254.1
3°	2235.0	2221.1	2216.3	2238.3	2235.5
4°	2208.2	2195.3	2191.0	2213.0	2210.6
5°	2170.9	2157.5	2154.6	2176.2	2174.2
6°	2125.0	2114.0	2108.7	2130.2	2126.4
7°	2067.6	2057.5	2051.8	2067.6	2069.5
8°	1992.9	1988.1	1981.4	1997.2	1997.2
9°	1913.5	1909.2	1902.0	1916.4	1916.4
10°	1828.4	1825.5	1816.9	1830.3	1830.3
11°	1735.1	1733.6	1727.4	1738.4	1738.4
12°	1637.0	1640.4	1634.6	1644.2	1640.8
13°	1538.9	1537.5	1538.0	1545.2	1539.9
14°	1428.0	1436.6	1438.0	1442.3	1434.2
15°	1321.8	1332.8	1330.4	1336.6	1326.1
16°	1213.2	1225.6	1225.1	1226.6	1216.5
17°	1111.8	1118.9	1119.4	1118.0	1105.5
18°	1003.6	1013.7	1013.7	1011.3	996.5
19°	897.9	905.6	910.8	905.6	888.4
20°	802.7	808.0	817.6	804.2	785.0
21°	711.4	716.1	724.3	708.5	687.4
22°	623.8	630.0	637.7	619.5	597.5
23°	542.0	556.4	559.2	534.4	515.7
24°	466.9	483.2	487.9	462.6	443.0
25°	399.9	418.1	429.1	399.4	379.8
26°	342.0	359.7	373.1	343.5	324.8
27°	291.3	310.0	323.9	296.1	278.4
28°	247.8	266.0	280.3	254.5	237.8
29°	215.3	225.8	240.1	218.6	203.3
30°	183.2	194.7	210.0	188.0	174.6
32.5°	125.8	132.0	144.0	130.6	120.1
35°	89.5	93.3	99.0	89.9	83.7
37.5°	63.6	65.5	68.9	63.6	60.3
40°	46.9	47.8	49.3	46.4	44.5
42.5°	34.9	35.4	35.4	34.4	33.5
45°	26.3	26.8	26.3	26.3	25.4
47.5°	19.1	20.6	20.1	20.1	18.7
50°	12.4	15.3	15.3	14.8	12.4
52.5°	7.7	10.5	12.0	10.5	8.1
55°	5.7	7.2	9.1	7.2	6.2
57.5°	5.7	5.7	6.7	5.7	5.7
60°	5.7	5.7	5.7	5.7	5.7



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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	4.8	5.3	5.3
72.5°	4.8	4.8	4.3	4.8	4.3
75°	3.8	3.8	3.8	3.8	3.8
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°	1.4	1.4	1.4	1.9	1.4
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°	5.7	5.7	5.7	5.7	5.7
65°	5.3	5.7	5.3	5.7	5.3



(END OF REPORT)