

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: P282735

Luminaire Tested: **LDA2B159050D010 EU2B15NFL259050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282735
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: LDA2B159050D010 EU2B15NFL259050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1054.6 lumens
Efficiency: N/A
Efficacy: 74.8 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

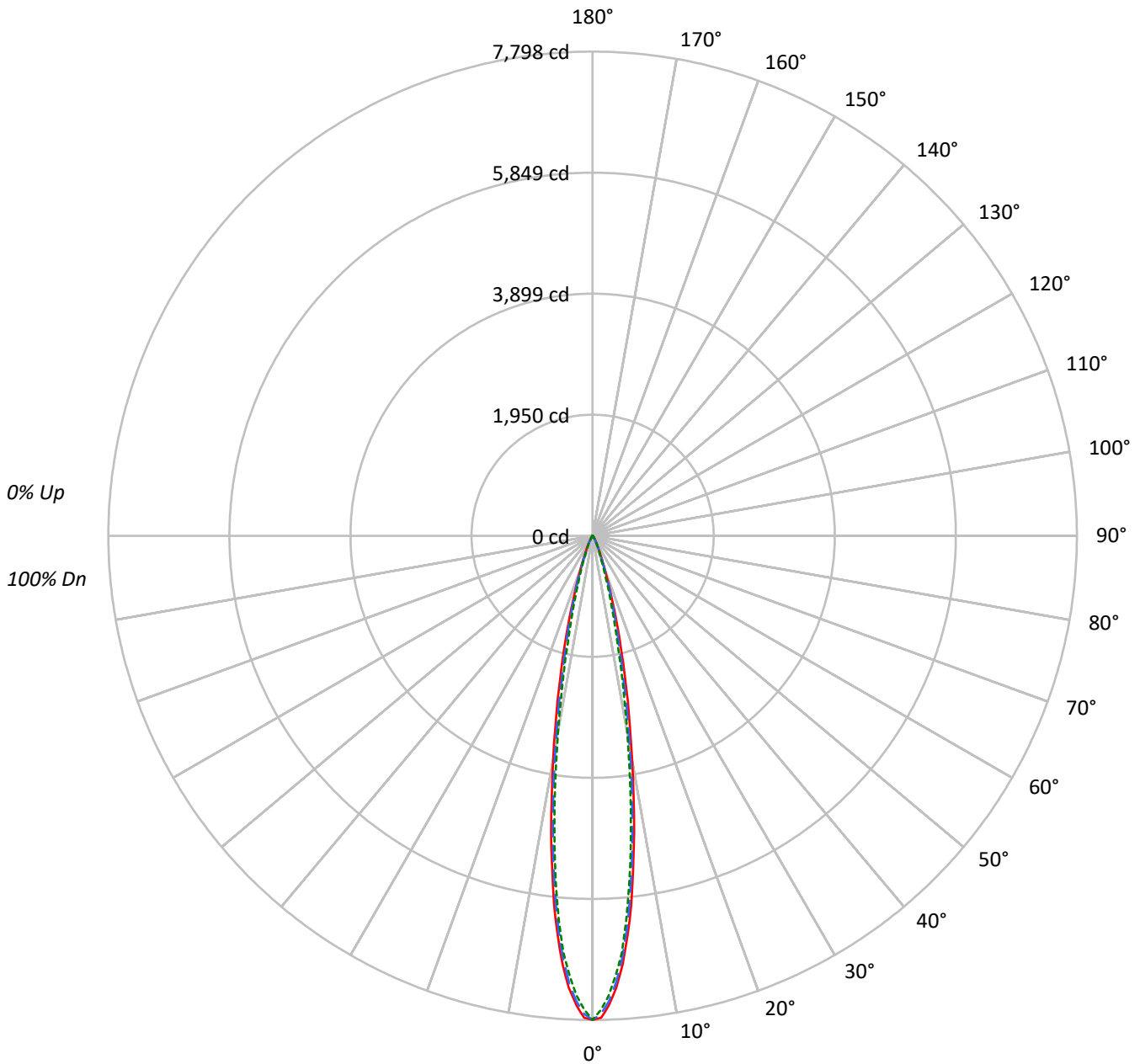
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	3847137	3847137	3847137
5°	3201223	3142536	3079095
10°	1833610	1720641	1605868
15°	815540	724317	606994
20°	295851	278158	220405
25°	113609	106097	91344
30°	48993	45575	40448
35°	23188	23188	19213
40°	11593	11979	9661
45°	6698	6279	5861
50°	4605	4145	4145
55°	3613	2580	3097
60°	2960	1776	2368
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.2	48.1
10°-20°	410.4	38.9
20°-30°	99.0	9.4
30°-40°	25.2	2.4
40°-50°	7.5	0.7
50°-60°	3.2	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	1016.6	96.4
0°-40°	1041.8	98.8
0°-60°	1052.5	99.8
0°-90°	1054.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7798	7798	7798	7798	7798	
5°	6464	6404	6345	6290	6217	523
15°	1597	1559	1418	1277	1188	455
25°	209	210	195	177	168	108
35°	38	39	38	35	32	27
45°	10	10	9	8	8	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	7797.8	7797.8	7797.8	7797.8	7797.8
1°	7762.9	7708.8	7702.2	7735.9	7636.6
2°	7564.5	7526.0	7503.7	7523.6	7411.1
3°	7292.0	7254.7	7214.5	7215.1	7089.4
4°	6921.0	6891.5	6823.5	6803.1	6730.3
5°	6463.9	6404.4	6345.4	6290.1	6217.3
6°	5958.7	5881.7	5797.5	5715.1	5640.6
7°	5364.5	5313.4	5202.2	5089.7	5026.5
8°	4805.8	4723.4	4593.5	4452.8	4399.3
9°	4205.0	4146.1	3996.9	3833.4	3779.8
10°	3660.1	3598.8	3434.6	3252.4	3205.5
11°	3149.0	3091.2	2920.4	2729.2	2679.3
12°	2716.5	2634.8	2438.7	2272.7	2224.0
13°	2285.9	2230.0	2044.2	1880.0	1785.6
14°	1919.7	1873.4	1705.0	1560.6	1460.8
15°	1596.7	1558.8	1418.1	1277.4	1188.4
16°	1309.9	1286.4	1175.1	1039.2	966.5
17°	1062.7	1041.0	970.1	845.0	783.6
18°	858.2	855.2	796.3	688.0	633.3
19°	706.0	704.8	650.7	559.9	514.8
20°	563.5	571.3	529.8	450.5	419.8
21°	459.5	463.7	430.6	370.5	342.8
22°	374.1	377.1	355.4	306.1	291.1
23°	306.7	308.5	290.5	253.8	240.6
24°	252.6	253.8	237.6	211.7	200.3
25°	208.7	209.9	194.9	176.8	167.8
26°	173.2	174.4	161.2	148.5	139.5
27°	143.7	146.1	132.9	125.1	115.5
28°	122.7	123.3	111.3	106.4	97.4
29°	100.4	104.0	93.8	89.6	83.0
30°	86.0	87.8	80.0	77.0	71.0
32.5°	57.1	58.3	54.7	52.3	47.5
35°	38.5	39.1	38.5	34.9	31.9
37.5°	26.5	26.5	27.1	22.9	21.7
40°	18.0	18.0	18.6	15.6	15.0
42.5°	13.2	13.2	12.6	10.8	10.8
45°	9.6	9.6	9.0	8.4	8.4
47.5°	7.8	7.2	6.6	6.6	6.6
50°	6.0	6.0	5.4	4.8	5.4
52.5°	4.8	4.8	4.2	4.2	4.2
55°	4.2	3.6	3.0	3.0	3.6
57.5°	3.0	3.0	2.4	2.4	3.0
60°	3.0	2.4	1.8	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)