

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: P282380

Luminaire Tested: **LDA2B208035D010 EU2B20NFL258035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282380
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: LDA2B208035D010 EU2B20NFL258035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 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: 1857.1 lumens
Efficiency: N/A
Efficacy: 90.1 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

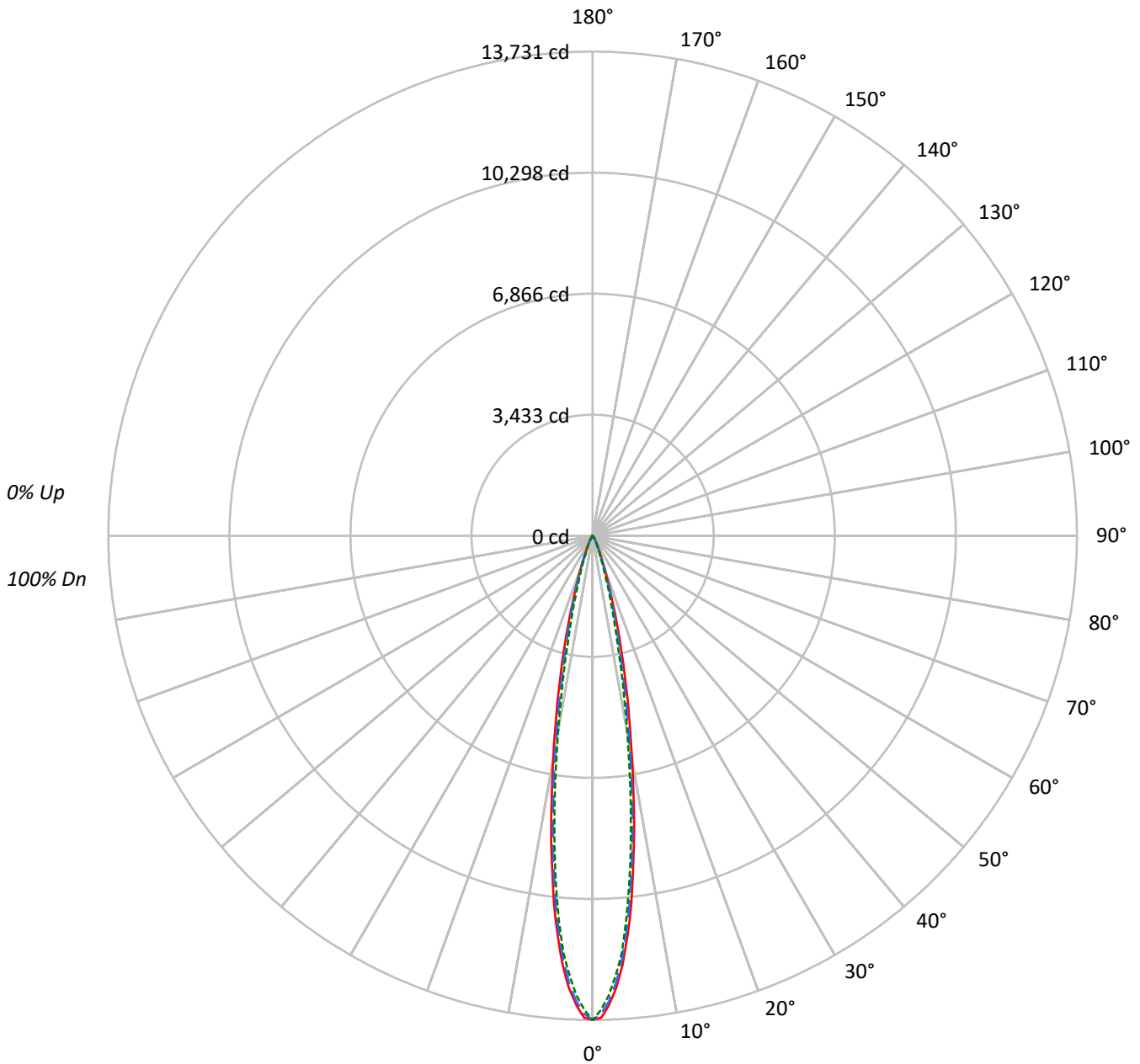
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6774548	6774548	6774548
5°	5637142	5533833	5422106
10°	3228919	3029933	2827790
15°	1436120	1275484	1068828
20°	520982	489848	388098
25°	200054	186771	160860
30°	86250	80269	71211
35°	40835	40835	33788
40°	20480	21124	17067
45°	11791	11094	10326
50°	8136	7292	7292
55°	6365	4559	5505
60°	5230	3158	4144
65°	3736	2452	3736
70°	3029	1587	3029
75°	2097	2097	2097
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.1	48.1
10°-20°	722.7	38.9
20°-30°	174.3	9.4
30°-40°	44.4	2.4
40°-50°	13.2	0.7
50°-60°	5.6	0.3
60°-70°	2.7	0.1
70°-80°	0.9	0.1
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°	1790.1	96.4
0°-40°	1834.5	98.8
0°-60°	1853.4	99.8
0°-90°	1857.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13731	13731	13731	13731	13731	
5°	11382	11278	11174	11076	10948	920
15°	2812	2745	2497	2249	2093	802
25°	368	370	343	311	296	190
35°	68	69	68	61	56	47
45°	17	17	16	15	15	14
55°	7	6	5	5	6	6
65°	3	3	2	2	3	4
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°	13731.4	13731.4	13731.4	13731.4	13731.4
1°	13670.0	13574.7	13563.0	13622.3	13447.6
2°	13320.5	13252.7	13213.5	13248.5	13050.5
3°	12840.8	12775.1	12704.2	12705.2	12483.9
4°	12187.3	12135.5	12015.8	11979.8	11851.6
5°	11382.5	11277.6	11173.9	11076.4	10948.3
6°	10492.9	10357.3	10209.1	10064.0	9932.7
7°	9446.6	9356.6	9160.6	8962.6	8851.4
8°	8462.7	8317.6	8088.9	7841.1	7746.8
9°	7404.8	7301.0	7038.3	6750.3	6656.0
10°	6445.3	6337.3	6048.1	5727.2	5644.6
11°	5545.1	5443.4	5142.7	4805.9	4718.0
12°	4783.7	4639.6	4294.4	4002.1	3916.3
13°	4025.4	3926.9	3599.7	3310.5	3144.3
14°	3380.4	3298.9	3002.4	2748.2	2572.4
15°	2811.7	2745.0	2497.2	2249.4	2092.6
16°	2306.6	2265.3	2069.3	1830.0	1701.9
17°	1871.3	1833.2	1708.2	1487.9	1379.9
18°	1511.2	1505.9	1402.2	1211.5	1115.2
19°	1243.3	1241.2	1145.9	986.0	906.5
20°	992.3	1006.1	933.0	793.2	739.2
21°	809.1	816.5	758.3	652.4	603.6
22°	658.7	664.0	625.9	539.0	512.6
23°	540.1	543.3	511.5	446.9	423.6
24°	444.8	446.9	418.3	372.8	352.7
25°	367.5	369.6	343.1	311.4	295.5
26°	305.0	307.1	283.8	261.6	245.7
27°	253.1	257.3	234.0	220.3	203.3
28°	216.0	217.1	195.9	187.4	171.6
29°	176.9	183.2	165.2	157.8	146.1
30°	151.4	154.6	140.9	135.6	125.0
32.5°	100.6	102.7	96.4	92.1	83.7
35°	67.8	68.8	67.8	61.4	56.1
37.5°	46.6	46.6	47.7	40.2	38.1
40°	31.8	31.8	32.8	27.5	26.5
42.5°	23.3	23.3	22.2	19.1	19.1
45°	16.9	16.9	15.9	14.8	14.8
47.5°	13.8	12.7	11.6	11.6	11.6
50°	10.6	10.6	9.5	8.5	9.5
52.5°	8.5	8.5	7.4	7.4	7.4
55°	7.4	6.4	5.3	5.3	6.4
57.5°	5.3	5.3	4.2	4.2	5.3
60°	5.3	4.2	3.2	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.2	2.1	2.1	2.1	2.1
70°	2.1	2.1	1.1	1.1	2.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	0.0	1.1
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°	4.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	2.1	2.1	3.2



(END OF REPORT)