

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: P282750

Luminaire Tested: **LDA2B208030D010 EU2B20NFL258030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282750
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: LDA2B208030D010 EU2B20NFL258030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 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: 1670.0 lumens
Efficiency: N/A
Efficacy: 81.1 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

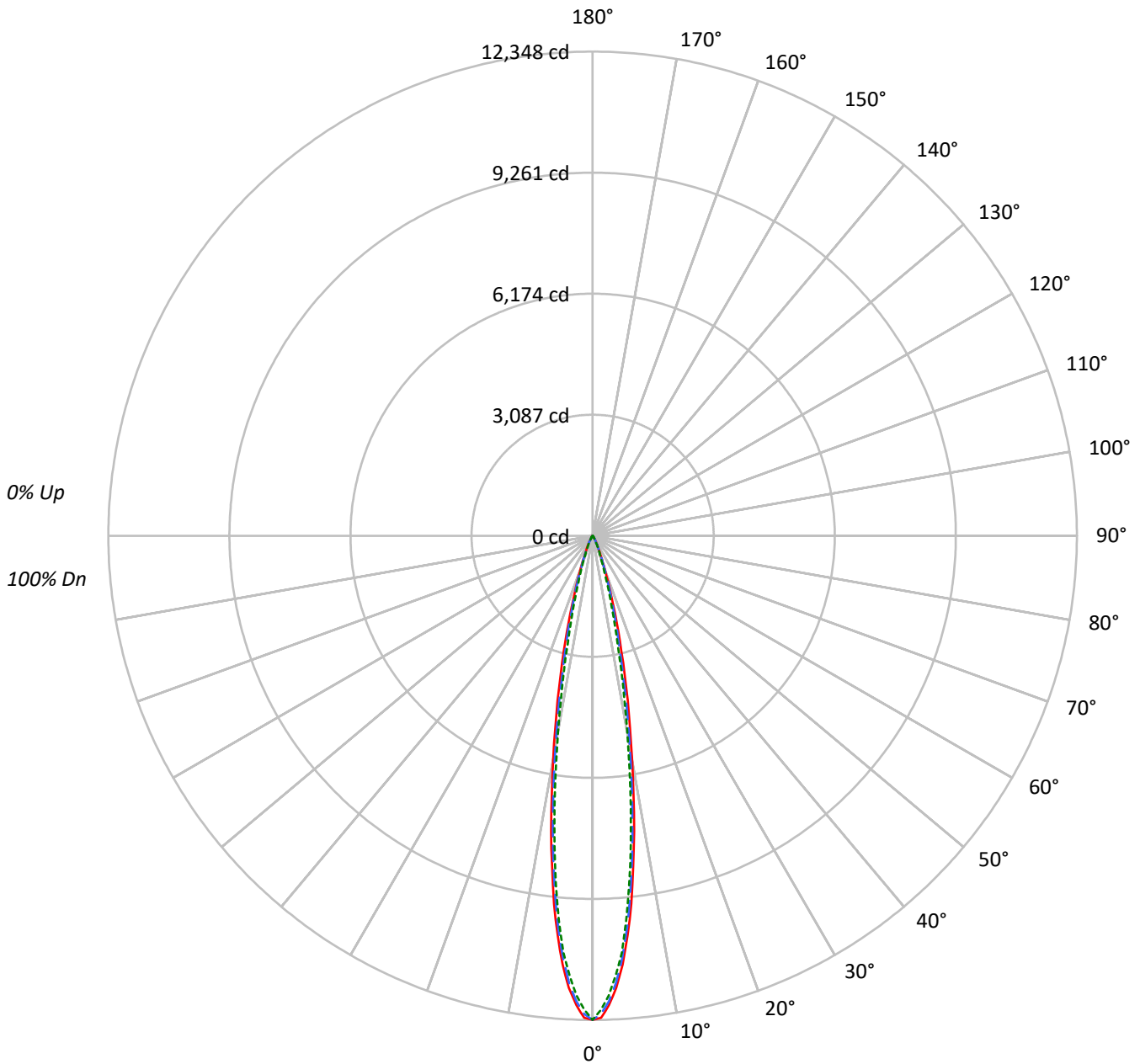
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6091785	6091785	6091785
5°	5068995	4976087	4875651
10°	2903487	2724590	2542837
15°	1291420	1146924	961108
20°	468479	440496	348984
25°	179858	167936	144638
30°	77591	72179	64033
35°	36679	36679	30415
40°	18419	18999	15328
45°	10605	9977	9280
50°	7292	6601	6601
55°	5763	4129	4903
60°	4736	2861	3750
65°	3385	2218	3385
70°	2741	1442	2741
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.1	48.1
10°-20°	649.9	38.9
20°-30°	156.7	9.4
30°-40°	40.0	2.4
40°-50°	11.9	0.7
50°-60°	5.1	0.3
60°-70°	2.5	0.1
70°-80°	0.8	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°	1609.7	96.4
0°-40°	1649.6	98.8
0°-60°	1666.6	99.8
0°-90°	1670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12348	12348	12348	12348	12348	
5°	10235	10141	10048	9960	9845	828
15°	2528	2468	2246	2023	1882	721
25°	330	332	308	280	266	171
35°	61	62	61	55	50	42
45°	15	15	14	13	13	13
55°	7	6	5	5	6	6
65°	3	3	2	2	3	3
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°	12347.5	12347.5	12347.5	12347.5	12347.5
1°	12292.3	12206.6	12196.1	12249.4	12092.3
2°	11978.0	11917.1	11881.8	11913.3	11735.2
3°	11546.6	11487.6	11423.8	11424.7	11225.7
4°	10959.1	10912.4	10804.8	10772.4	10657.2
5°	10235.3	10141.0	10047.7	9960.1	9844.9
6°	9435.4	9313.5	9180.2	9049.7	8931.6
7°	8494.5	8413.6	8237.4	8059.3	7959.3
8°	7609.8	7479.4	7273.7	7050.8	6966.1
9°	6658.5	6565.1	6329.0	6070.0	5985.2
10°	5795.7	5698.6	5438.6	5150.0	5075.8
11°	4986.2	4894.8	4624.4	4321.5	4242.5
12°	4301.5	4172.0	3861.6	3598.7	3521.6
13°	3619.7	3531.1	3236.9	2976.9	2827.4
14°	3039.7	2966.4	2699.8	2471.2	2313.1
15°	2528.4	2468.4	2245.5	2022.7	1881.7
16°	2074.1	2037.0	1860.8	1645.6	1530.3
17°	1682.7	1648.4	1536.1	1338.0	1240.8
18°	1358.9	1354.2	1260.8	1089.4	1002.8
19°	1118.0	1116.1	1030.4	886.6	815.2
20°	892.3	904.7	839.0	713.3	664.7
21°	727.6	734.2	681.8	586.6	542.8
22°	592.3	597.1	562.8	484.7	460.9
23°	485.7	488.5	460.0	401.9	380.9
24°	400.0	401.9	376.2	335.2	317.1
25°	330.4	332.4	308.5	280.0	265.7
26°	274.3	276.2	255.2	235.2	220.9
27°	227.6	231.4	210.5	198.1	182.8
28°	194.3	195.2	176.2	168.6	154.3
29°	159.0	164.7	148.6	141.9	131.4
30°	136.2	139.0	126.7	121.9	112.4
32.5°	90.5	92.4	86.7	82.8	75.2
35°	60.9	61.9	60.9	55.2	50.5
37.5°	41.9	41.9	42.9	36.2	34.3
40°	28.6	28.6	29.5	24.8	23.8
42.5°	21.0	21.0	20.0	17.1	17.1
45°	15.2	15.2	14.3	13.3	13.3
47.5°	12.4	11.4	10.5	10.5	10.5
50°	9.5	9.5	8.6	7.6	8.6
52.5°	7.6	7.6	6.7	6.7	6.7
55°	6.7	5.7	4.8	4.8	5.7
57.5°	4.8	4.8	3.8	3.8	4.8
60°	4.8	3.8	2.9	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.0	1.0	1.9
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	0.0	1.0
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°	3.8	2.9	2.9	2.9	2.9
65°	2.9	2.9	1.9	1.9	2.9



(END OF REPORT)