

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: P282768

Luminaire Tested: **LDA2B209030D010 EU2B20NFL259030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282768
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: LDA2B209030D010 EU2B20NFL259030 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: 1346.9 lumens
Efficiency: N/A
Efficacy: 65.4 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

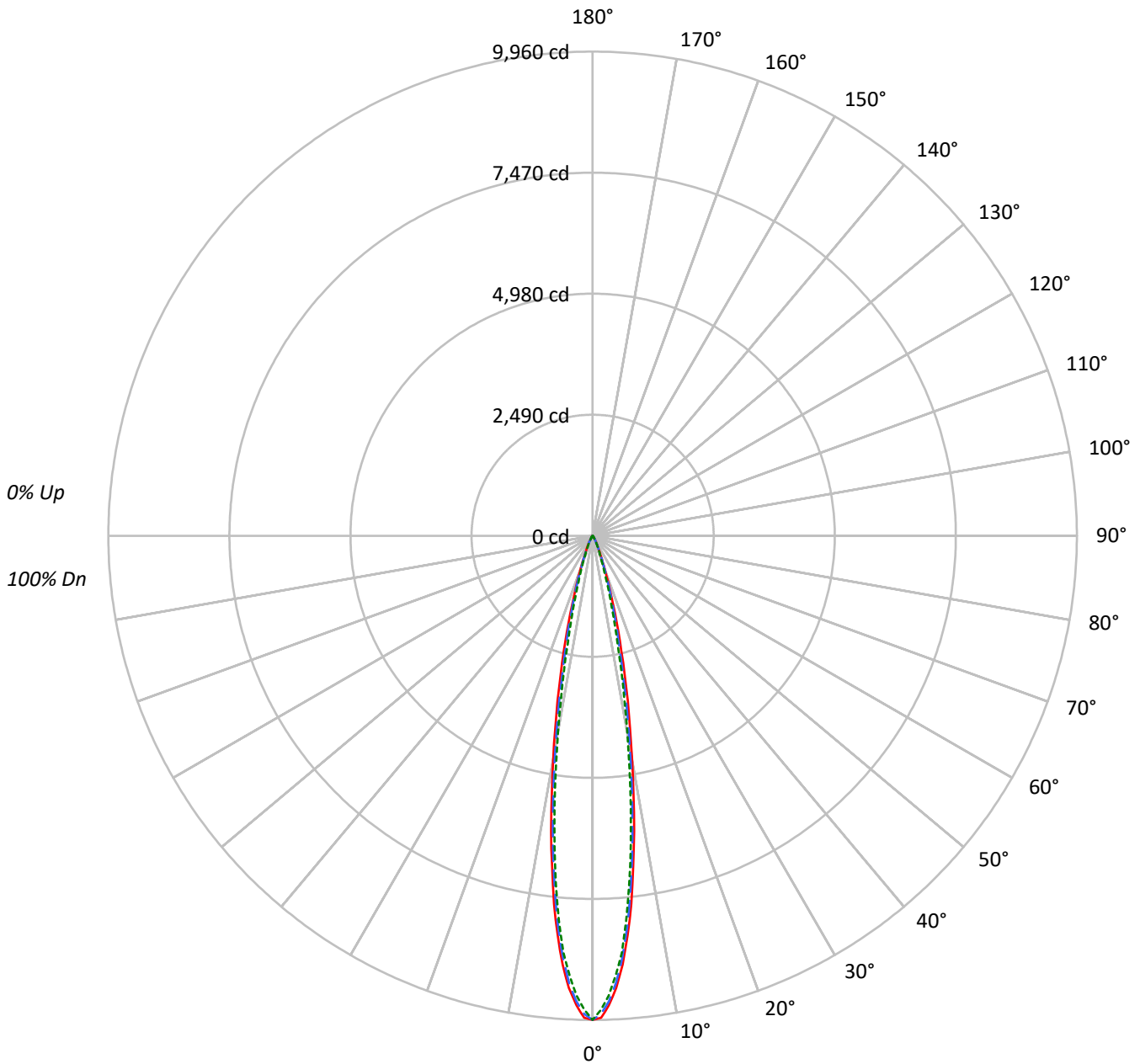
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4913686	4913686	4913686
5°	4088704	4013774	3932702
10°	2341997	2197667	2051032
15°	1041656	925150	775240
20°	377860	355284	281518
25°	145073	135492	116657
30°	62551	58222	51613
35°	29632	29632	24513
40°	14813	15328	12366
45°	8582	8024	7535
50°	5910	5296	5296
55°	4645	3269	3957
60°	3750	2269	3059
65°	2685	1751	2685
70°	2164	1154	2164
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.8	48.1
10°-20°	524.2	38.9
20°-30°	126.4	9.4
30°-40°	32.2	2.4
40°-50°	9.6	0.7
50°-60°	4.1	0.3
60°-70°	2.0	0.1
70°-80°	0.7	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°	1298.4	96.4
0°-40°	1330.6	98.8
0°-60°	1344.3	99.8
0°-90°	1346.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9960	9960	9960	9960	9960	
5°	8256	8180	8105	8034	7941	668
15°	2039	1991	1811	1632	1518	582
25°	266	268	249	226	214	138
35°	49	50	49	45	41	34
45°	12	12	12	11	11	10
55°	5	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9959.6	9959.6	9959.6	9959.6	9959.6
1°	9915.0	9845.9	9837.5	9880.5	9753.7
2°	9661.6	9612.4	9584.0	9609.3	9465.7
3°	9313.6	9266.0	9214.5	9215.3	9054.7
4°	8839.7	8802.0	8715.2	8689.1	8596.2
5°	8255.9	8179.8	8104.6	8033.9	7940.9
6°	7610.7	7512.3	7404.8	7299.6	7204.3
7°	6851.7	6786.4	6644.3	6500.7	6420.0
8°	6138.1	6032.9	5867.0	5687.2	5618.9
9°	5370.8	5295.5	5105.0	4896.1	4827.7
10°	4674.9	4596.5	4386.8	4154.1	4094.1
11°	4021.9	3948.2	3730.0	3485.8	3422.0
12°	3469.7	3365.2	3114.8	2902.8	2840.6
13°	2919.7	2848.2	2610.9	2401.2	2280.6
14°	2451.9	2392.7	2177.7	1993.3	1865.8
15°	2039.4	1991.0	1811.3	1631.5	1517.8
16°	1673.0	1643.0	1500.9	1327.3	1234.4
17°	1357.3	1329.6	1239.0	1079.2	1000.9
18°	1096.1	1092.3	1017.0	878.7	808.8
19°	901.8	900.3	831.1	715.1	657.5
20°	719.7	729.7	676.7	575.3	536.2
21°	586.9	592.2	550.0	473.2	437.8
22°	477.8	481.6	454.0	391.0	371.8
23°	391.7	394.1	371.0	324.2	307.3
24°	322.6	324.2	303.4	270.4	255.8
25°	266.5	268.1	248.9	225.8	214.3
26°	221.2	222.8	205.9	189.7	178.2
27°	183.6	186.7	169.8	159.8	147.5
28°	156.7	157.5	142.1	136.0	124.4
29°	128.3	132.9	119.8	114.5	106.0
30°	109.8	112.1	102.2	98.3	90.6
32.5°	73.0	74.5	69.9	66.8	60.7
35°	49.2	49.9	49.2	44.6	40.7
37.5°	33.8	33.8	34.6	29.2	27.7
40°	23.0	23.0	23.8	20.0	19.2
42.5°	16.9	16.9	16.1	13.8	13.8
45°	12.3	12.3	11.5	10.8	10.8
47.5°	10.0	9.2	8.4	8.4	8.4
50°	7.7	7.7	6.9	6.1	6.9
52.5°	6.1	6.1	5.4	5.4	5.4
55°	5.4	4.6	3.8	3.8	4.6
57.5°	3.8	3.8	3.1	3.1	3.8
60°	3.8	3.1	2.3	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.8	0.8	1.5
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
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°	3.1	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.5	1.5	2.3



(END OF REPORT)