

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: P282761

Luminaire Tested: **LDA2B209024D010 EU2B20NFL259024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282761
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: LDA2B209024D010 EU2B20NFL259024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1215.3 lumens
Efficiency: N/A
Efficacy: 59.0 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

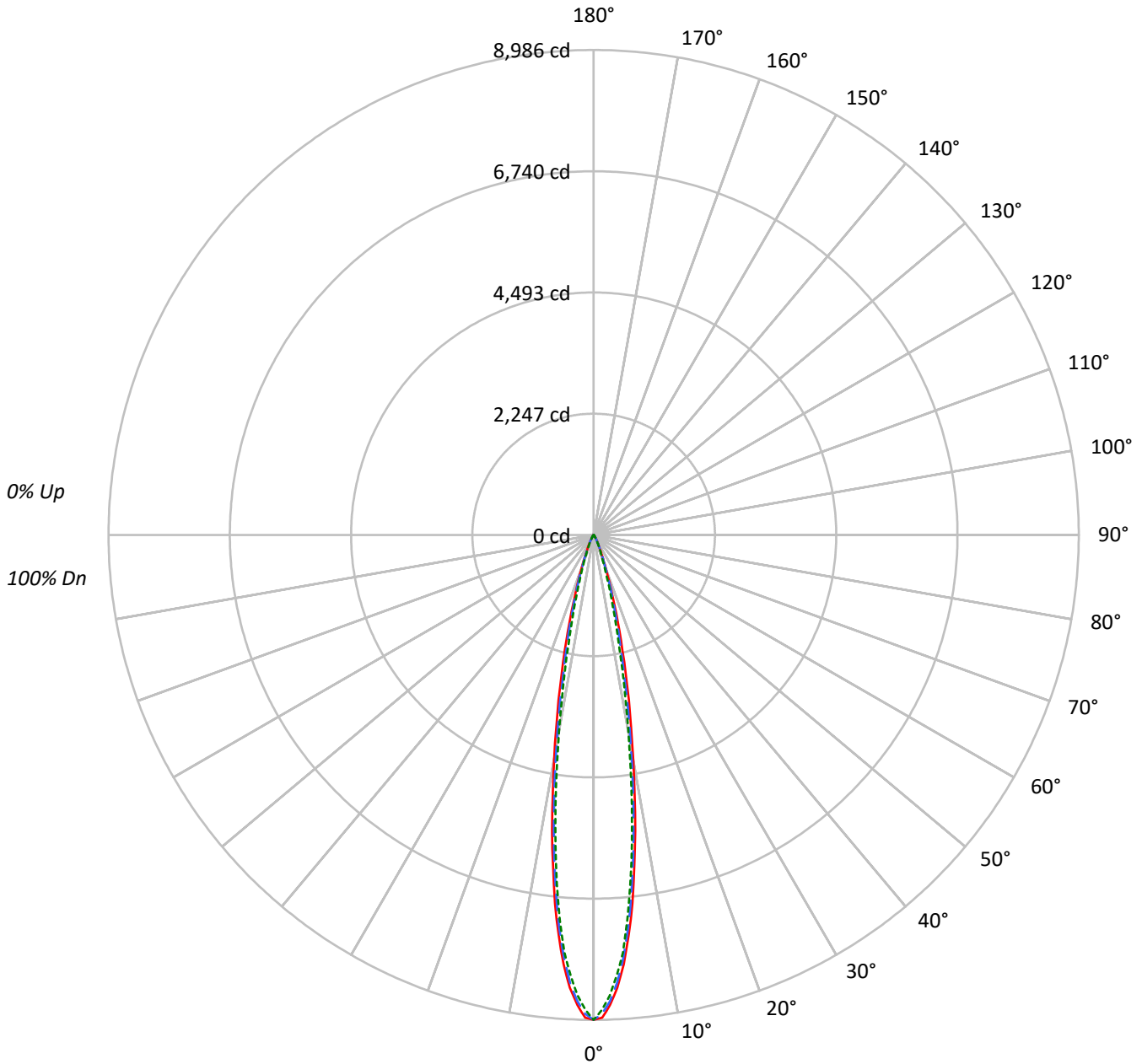
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4433398	4433398	4433398
5°	3689041	3621439	3548341
10°	2113053	1982850	1850593
15°	939860	834693	699494
20°	340951	320580	254007
25°	130920	122210	105280
30°	56456	52525	46600
35°	26741	26741	22104
40°	13396	13847	11142
45°	7745	7256	6768
50°	5296	4759	4759
55°	4215	3011	3613
60°	3454	2072	2763
65°	2452	1634	2452
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.5	48.1
10°-20°	473.0	38.9
20°-30°	114.1	9.4
30°-40°	29.1	2.4
40°-50°	8.7	0.7
50°-60°	3.7	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1171.5	96.4
0°-40°	1200.6	98.8
0°-60°	1212.9	99.8
0°-90°	1215.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1215.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8986	8986	8986	8986	8986	
5°	7449	7380	7312	7249	7165	602
15°	1840	1796	1634	1472	1370	525
25°	240	242	224	204	193	124
35°	44	45	44	40	37	31
45°	11	11	10	10	10	9
55°	5	4	4	4	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°	8986.1	8986.1	8986.1	8986.1	8986.1
1°	8945.9	8883.6	8875.9	8914.7	8800.4
2°	8717.2	8672.9	8647.2	8670.1	8540.5
3°	8403.3	8360.3	8313.9	8314.6	8169.7
4°	7975.7	7941.7	7863.4	7839.8	7756.0
5°	7448.9	7380.3	7312.4	7248.6	7164.8
6°	6866.8	6778.1	6681.0	6586.1	6500.1
7°	6182.0	6123.1	5994.9	5865.3	5792.5
8°	5538.2	5443.2	5293.5	5131.4	5069.7
9°	4845.8	4777.9	4606.0	4417.5	4355.8
10°	4217.9	4147.2	3958.0	3748.0	3694.0
11°	3628.8	3562.3	3365.5	3145.1	3087.6
12°	3130.5	3036.3	2810.3	2619.0	2562.9
13°	2634.3	2569.8	2355.7	2166.5	2057.7
14°	2212.2	2158.9	1964.8	1798.5	1683.4
15°	1840.1	1796.4	1634.2	1472.0	1369.5
16°	1509.5	1482.4	1354.2	1197.6	1113.7
17°	1224.6	1199.7	1117.9	973.7	903.0
18°	989.0	985.5	917.6	792.9	729.8
19°	813.6	812.3	749.9	645.2	593.3
20°	649.4	658.4	610.6	519.1	483.8
21°	529.5	534.3	496.2	426.9	395.0
22°	431.1	434.5	409.6	352.8	335.4
23°	353.5	355.5	334.7	292.5	277.2
24°	291.1	292.5	273.8	244.0	230.8
25°	240.5	241.9	224.5	203.8	193.4
26°	199.6	201.0	185.7	171.2	160.8
27°	165.6	168.4	153.2	144.2	133.1
28°	141.4	142.1	128.2	122.7	112.3
29°	115.7	119.9	108.1	103.3	95.6
30°	99.1	101.2	92.2	88.7	81.8
32.5°	65.8	67.2	63.1	60.3	54.8
35°	44.4	45.0	44.4	40.2	36.7
37.5°	30.5	30.5	31.2	26.3	24.9
40°	20.8	20.8	21.5	18.0	17.3
42.5°	15.2	15.2	14.6	12.5	12.5
45°	11.1	11.1	10.4	9.7	9.7
47.5°	9.0	8.3	7.6	7.6	7.6
50°	6.9	6.9	6.2	5.5	6.2
52.5°	5.5	5.5	4.9	4.9	4.9
55°	4.9	4.2	3.5	3.5	4.2
57.5°	3.5	3.5	2.8	2.8	3.5
60°	3.5	2.8	2.1	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)