

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: P282417

Luminaire Tested: **LDA2B209035D010 EU2B20NFL259035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282417
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: LDA2B209035D010 EU2B20NFL259035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1521.5 lumens
Efficiency: N/A
Efficacy: 73.9 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

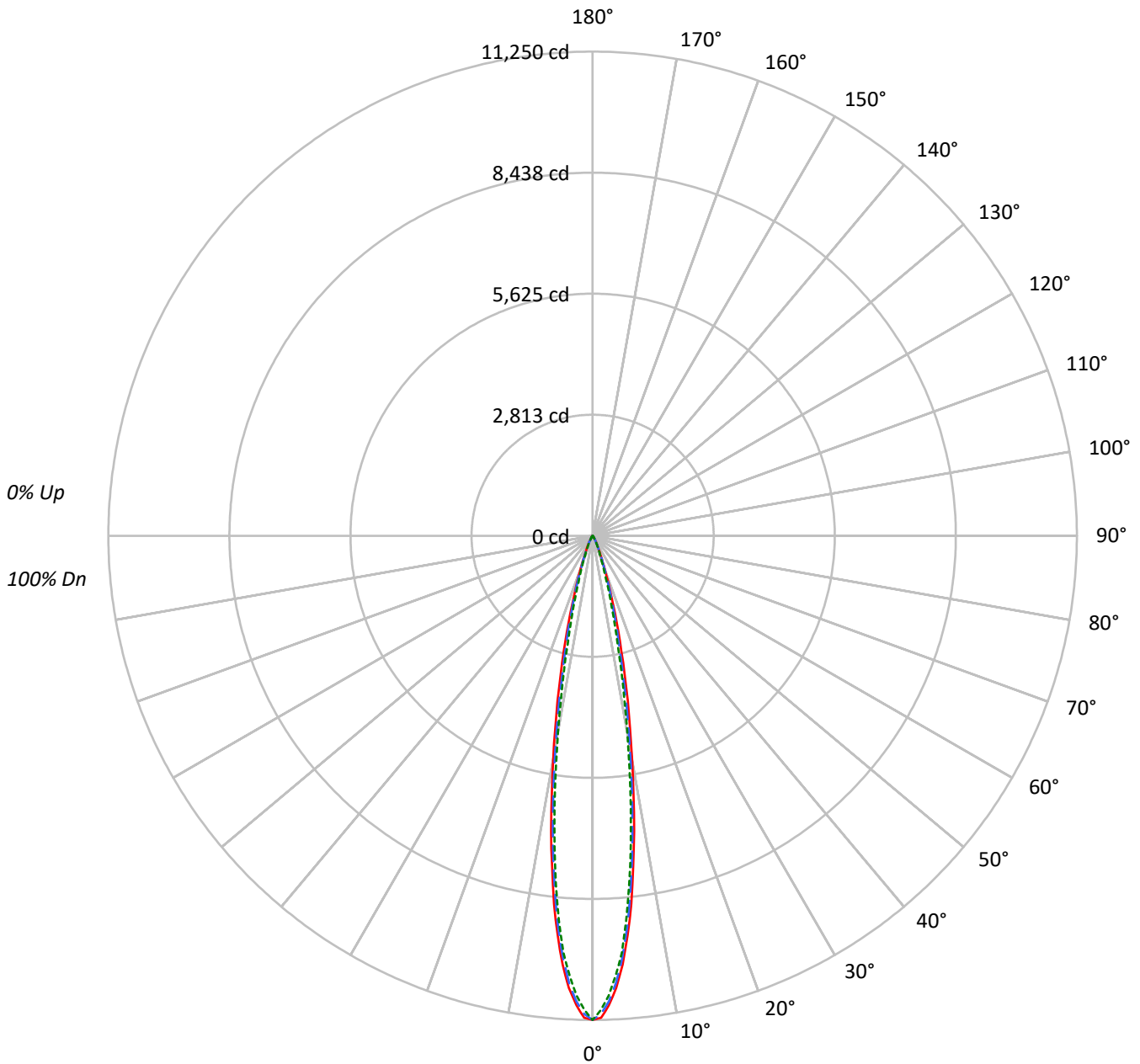
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5550567	5550567	5550567
5°	4618667	4533980	4442459
10°	2645537	2482520	2316898
15°	1176651	1045027	875759
20°	426845	401329	318007
25°	163908	153021	131791
30°	70698	65742	58336
35°	33427	33427	27705
40°	16745	17325	13976
45°	9698	9070	8442
50°	6678	5987	5987
55°	5247	3699	4473
60°	4243	2565	3454
65°	3035	1985	3035
70°	2452	1298	2452
75°	1716	1716	1716
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.7	48.1
10°-20°	592.2	38.9
20°-30°	142.8	9.4
30°-40°	36.4	2.4
40°-50°	10.8	0.7
50°-60°	4.6	0.3
60°-70°	2.2	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°	1466.7	96.4
0°-40°	1503.1	98.8
0°-60°	1518.5	99.8
0°-90°	1521.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11250	11250	11250	11250	11250	
5°	9326	9240	9155	9075	8970	754
15°	2304	2249	2046	1843	1715	657
25°	301	303	281	255	242	156
35°	56	56	56	50	46	38
45°	14	14	13	12	12	12
55°	6	5	4	4	5	5
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°	11250.5	11250.5	11250.5	11250.5	11250.5
1°	11200.2	11122.1	11112.6	11161.2	11018.0
2°	10913.9	10858.3	10826.2	10854.9	10692.6
3°	10520.8	10467.0	10408.9	10409.7	10228.4
4°	9985.4	9942.9	9844.9	9815.4	9710.4
5°	9326.0	9240.1	9155.0	9075.2	8970.2
6°	8597.1	8486.1	8364.6	8245.7	8138.1
7°	7739.8	7666.1	7505.6	7343.3	7252.2
8°	6933.7	6814.9	6627.5	6424.4	6347.2
9°	6066.9	5981.9	5766.7	5530.7	5453.5
10°	5280.8	5192.3	4955.4	4692.5	4624.8
11°	4543.2	4460.0	4213.5	3937.6	3865.6
12°	3919.4	3801.4	3518.5	3279.0	3208.7
13°	3298.1	3217.4	2949.3	2712.4	2576.2
14°	2769.7	2702.9	2459.9	2251.7	2107.6
15°	2303.7	2249.1	2046.0	1843.0	1714.6
16°	1889.8	1856.0	1695.5	1499.4	1394.4
17°	1533.2	1502.0	1399.6	1219.1	1130.6
18°	1238.2	1233.9	1148.8	992.6	913.7
19°	1018.7	1016.9	938.8	807.8	742.7
20°	813.0	824.3	764.4	649.9	605.7
21°	662.9	669.0	621.3	534.5	494.6
22°	539.7	544.0	512.8	441.7	420.0
23°	442.5	445.1	419.1	366.2	347.1
24°	364.4	366.2	342.7	305.4	288.9
25°	301.1	302.8	281.1	255.1	242.1
26°	249.9	251.6	232.5	214.3	201.3
27°	207.4	210.8	191.8	180.5	166.6
28°	177.0	177.9	160.5	153.6	140.6
29°	144.9	150.1	135.4	129.3	119.7
30°	124.1	126.7	115.4	111.1	102.4
32.5°	82.4	84.2	79.0	75.5	68.5
35°	55.5	56.4	55.5	50.3	46.0
37.5°	38.2	38.2	39.0	33.0	31.2
40°	26.0	26.0	26.9	22.6	21.7
42.5°	19.1	19.1	18.2	15.6	15.6
45°	13.9	13.9	13.0	12.1	12.1
47.5°	11.3	10.4	9.5	9.5	9.5
50°	8.7	8.7	7.8	6.9	7.8
52.5°	6.9	6.9	6.1	6.1	6.1
55°	6.1	5.2	4.3	4.3	5.2
57.5°	4.3	4.3	3.5	3.5	4.3
60°	4.3	3.5	2.6	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.6	1.7	1.7	1.7	1.7
70°	1.7	1.7	0.9	0.9	1.7
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.0	0.9
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°	3.5	2.6	2.6	2.6	2.6
65°	2.6	2.6	1.7	1.7	2.6



(END OF REPORT)