

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: P282752

Luminaire Tested: **LDA2B208035D010 EU2B20NFL258035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282752
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 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: 1712.5 lumens
Efficiency: N/A
Efficacy: 83.1 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

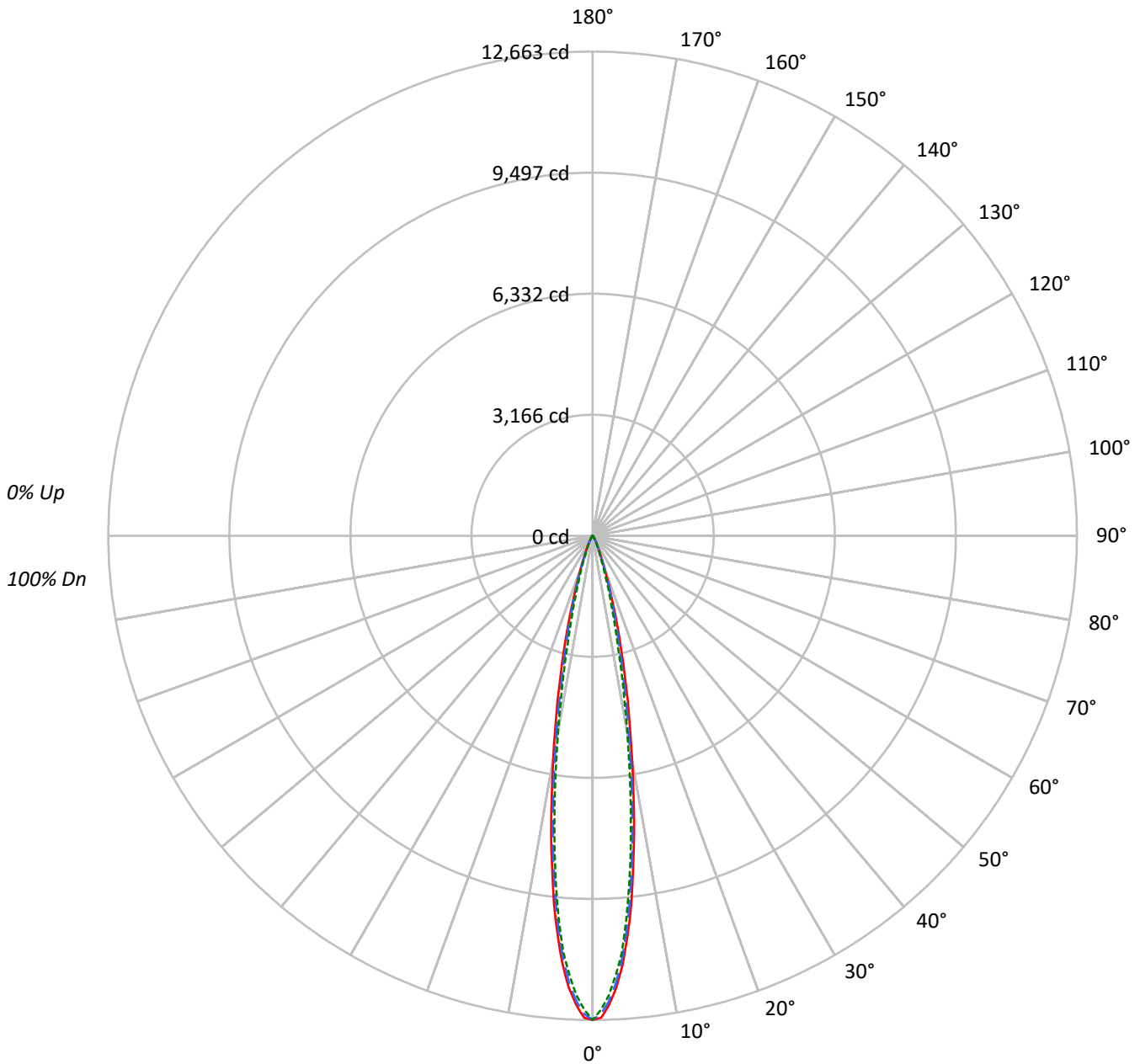
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6247243	6247243	6247243
5°	5198353	5103068	5000057
10°	2977581	2794125	2607713
15°	1324364	1176191	985676
20°	480450	451731	357909
25°	184485	172237	148339
30°	79585	74002	65628
35°	37643	37643	31198
40°	18870	19514	15715
45°	10884	10187	9559
50°	7522	6754	6754
55°	5849	4215	5075
60°	4835	2861	3848
65°	3385	2335	3385
70°	2885	1442	2885
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.6	48.1
10°-20°	666.5	38.9
20°-30°	160.7	9.4
30°-40°	41.0	2.4
40°-50°	12.2	0.7
50°-60°	5.2	0.3
60°-70°	2.5	0.1
70°-80°	0.9	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°	1650.8	96.4
0°-40°	1691.7	98.8
0°-60°	1709.2	99.8
0°-90°	1712.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1712.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12663	12663	12663	12663	12663	
5°	10496	10400	10304	10214	10096	849
15°	2593	2531	2303	2074	1930	739
25°	339	341	316	287	272	175
35°	62	64	62	57	52	43
45°	16	16	15	14	14	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°	12662.6	12662.6	12662.6	12662.6	12662.6
1°	12606.0	12518.1	12507.4	12562.1	12400.9
2°	12283.7	12221.2	12185.1	12217.3	12034.7
3°	11841.3	11780.8	11715.3	11716.3	11512.2
4°	11238.8	11190.9	11080.5	11047.3	10929.2
5°	10496.5	10399.9	10304.1	10214.3	10096.1
6°	9676.2	9551.2	9414.5	9280.7	9159.6
7°	8711.3	8628.3	8447.6	8265.0	8162.5
8°	7804.0	7670.2	7459.3	7230.8	7143.9
9°	6828.4	6732.7	6490.5	6224.9	6138.0
10°	5943.6	5844.0	5577.4	5281.5	5205.3
11°	5113.5	5019.7	4742.4	4431.8	4350.8
12°	4411.3	4278.5	3960.1	3690.6	3611.5
13°	3712.1	3621.2	3319.5	3052.9	2899.5
14°	3117.3	3042.1	2768.7	2534.3	2372.2
15°	2592.9	2531.4	2302.8	2074.3	1929.8
16°	2127.0	2089.0	1908.3	1687.6	1569.4
17°	1725.7	1690.5	1575.3	1372.1	1272.5
18°	1393.6	1388.7	1293.0	1117.2	1028.4
19°	1146.5	1144.6	1056.7	909.2	836.0
20°	915.1	927.8	860.4	731.5	681.7
21°	746.1	753.0	699.2	601.6	556.7
22°	607.4	612.3	577.2	497.1	472.7
23°	498.1	501.0	471.7	412.1	390.6
24°	410.2	412.1	385.8	343.8	325.2
25°	338.9	340.8	316.4	287.1	272.5
26°	281.3	283.2	261.7	241.2	226.6
27°	233.4	237.3	215.8	203.1	187.5
28°	199.2	200.2	180.7	172.9	158.2
29°	163.1	169.0	152.4	145.5	134.8
30°	139.7	142.6	129.9	125.0	115.2
32.5°	92.8	94.7	88.9	85.0	77.2
35°	62.5	63.5	62.5	56.6	51.8
37.5°	43.0	43.0	43.9	37.1	35.2
40°	29.3	29.3	30.3	25.4	24.4
42.5°	21.5	21.5	20.5	17.6	17.6
45°	15.6	15.6	14.6	13.7	13.7
47.5°	12.7	11.7	10.7	10.7	10.7
50°	9.8	9.8	8.8	7.8	8.8
52.5°	7.8	7.8	6.8	6.8	6.8
55°	6.8	5.9	4.9	4.9	5.9
57.5°	4.9	4.9	3.9	3.9	4.9
60°	4.9	3.9	2.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.9	2.0	2.0	2.0	2.0
70°	2.0	2.0	1.0	1.0	2.0
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°	3.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	2.0	2.0	2.9



(END OF REPORT)