

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: P282753

Luminaire Tested: **LDA2B208035D010 EU2B20NFL258035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282753
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 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: 1688.4 lumens
Efficiency: N/A
Efficacy: 82.0 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

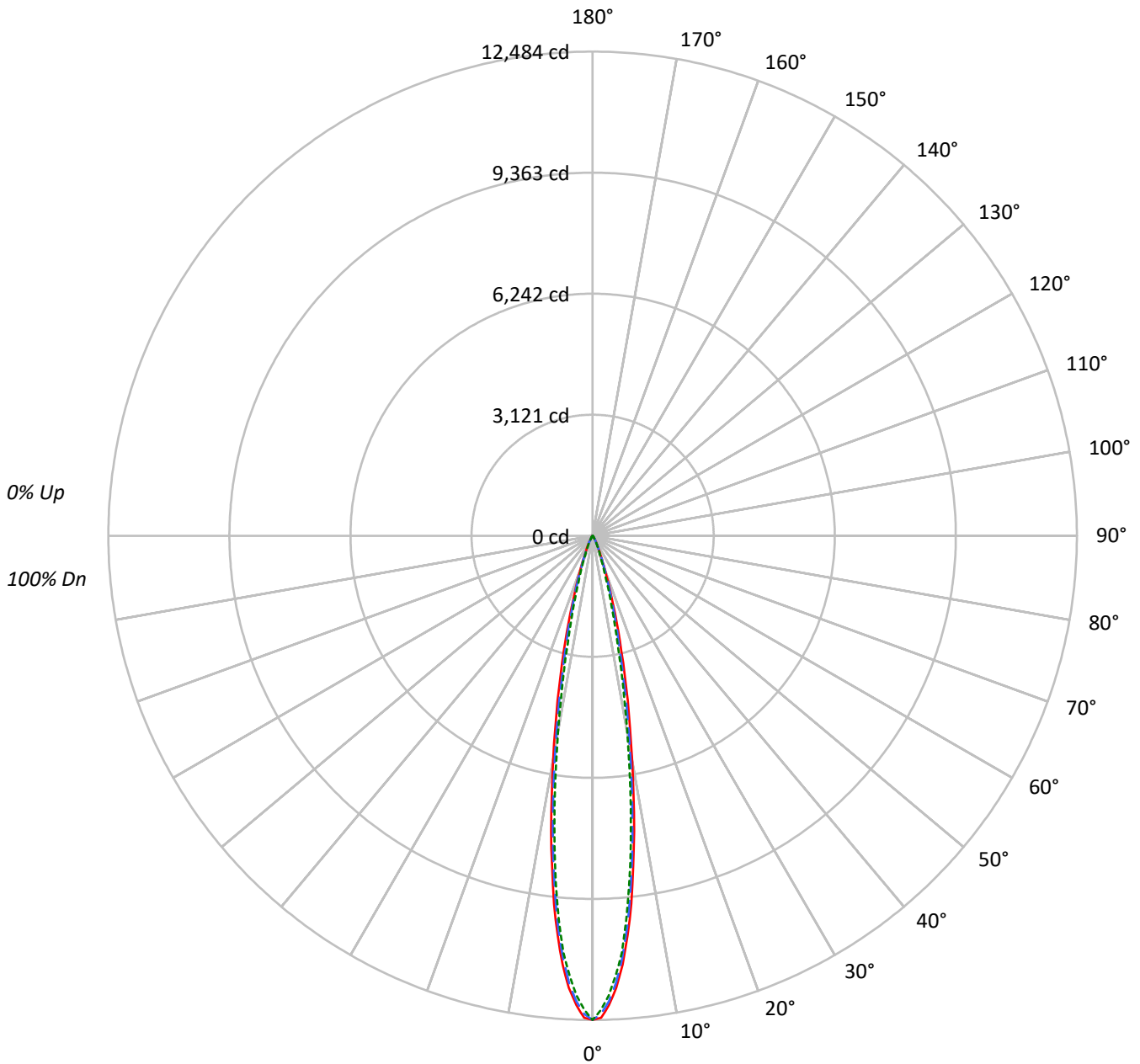
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6159375	6159375	6159375
5°	5125255	5031307	4929732
10°	2935700	2754799	2571042
15°	1305721	1159642	971783
20°	473677	445378	352869
25°	181872	169842	146216
30°	78446	72977	64716
35°	37101	37101	30716
40°	18613	19192	15521
45°	10745	10047	9419
50°	7368	6678	6678
55°	5763	4129	4989
60°	4736	2861	3848
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°	812.0	48.1
10°-20°	657.1	38.9
20°-30°	158.5	9.4
30°-40°	40.4	2.4
40°-50°	12.0	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°	1627.5	96.4
0°-40°	1667.9	98.8
0°-60°	1685.1	99.8
0°-90°	1688.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12484	12484	12484	12484	12484	
5°	10349	10254	10159	10071	9954	837
15°	2556	2496	2270	2045	1903	729
25°	334	336	312	283	269	173
35°	62	63	62	56	51	43
45°	15	15	14	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°	12484.5	12484.5	12484.5	12484.5	12484.5
1°	12428.7	12342.0	12331.4	12385.3	12226.5
2°	12110.9	12049.3	12013.7	12045.4	11865.4
3°	11674.7	11615.0	11550.5	11551.5	11350.3
4°	11080.7	11033.5	10924.7	10891.9	10775.4
5°	10348.9	10253.6	10159.2	10070.6	9954.1
6°	9540.1	9416.8	9282.0	9150.1	9030.7
7°	8588.8	8506.9	8328.8	8148.7	8047.6
8°	7694.3	7562.3	7354.4	7129.1	7043.4
9°	6732.4	6638.0	6399.2	6137.3	6051.6
10°	5860.0	5761.8	5498.9	5207.2	5132.1
11°	5041.6	4949.1	4675.7	4369.5	4289.6
12°	4349.3	4218.3	3904.4	3638.7	3560.7
13°	3659.9	3570.3	3272.8	3009.9	2858.7
14°	3073.5	2999.3	2729.7	2498.6	2338.8
15°	2556.4	2495.7	2270.4	2045.1	1902.6
16°	2097.1	2059.6	1881.4	1663.8	1547.3
17°	1701.4	1666.7	1553.1	1352.8	1254.6
18°	1374.0	1369.2	1274.8	1101.5	1013.9
19°	1130.4	1128.5	1041.8	896.4	824.2
20°	902.2	914.7	848.3	721.2	672.1
21°	735.6	742.4	689.4	593.1	548.8
22°	598.9	603.7	569.1	490.1	466.0
23°	491.1	493.9	465.1	406.3	385.1
24°	404.4	406.3	380.3	338.9	320.6
25°	334.1	336.0	312.0	283.1	268.6
26°	277.3	279.2	258.0	237.8	223.4
27°	230.1	234.0	212.8	200.3	184.9
28°	196.4	197.4	178.1	170.4	156.0
29°	160.8	166.6	150.2	143.5	132.9
30°	137.7	140.6	128.1	123.2	113.6
32.5°	91.5	93.4	87.6	83.8	76.1
35°	61.6	62.6	61.6	55.8	51.0
37.5°	42.4	42.4	43.3	36.6	34.7
40°	28.9	28.9	29.8	25.0	24.1
42.5°	21.2	21.2	20.2	17.3	17.3
45°	15.4	15.4	14.4	13.5	13.5
47.5°	12.5	11.6	10.6	10.6	10.6
50°	9.6	9.6	8.7	7.7	8.7
52.5°	7.7	7.7	6.7	6.7	6.7
55°	6.7	5.8	4.8	4.8	5.8
57.5°	4.8	4.8	3.9	3.9	4.8
60°	4.8	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	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°	3.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	1.9	1.9	2.9



(END OF REPORT)