

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: P282757

Luminaire Tested: **LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282757
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: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1786.9 lumens
Efficiency: N/A
Efficacy: 86.7 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

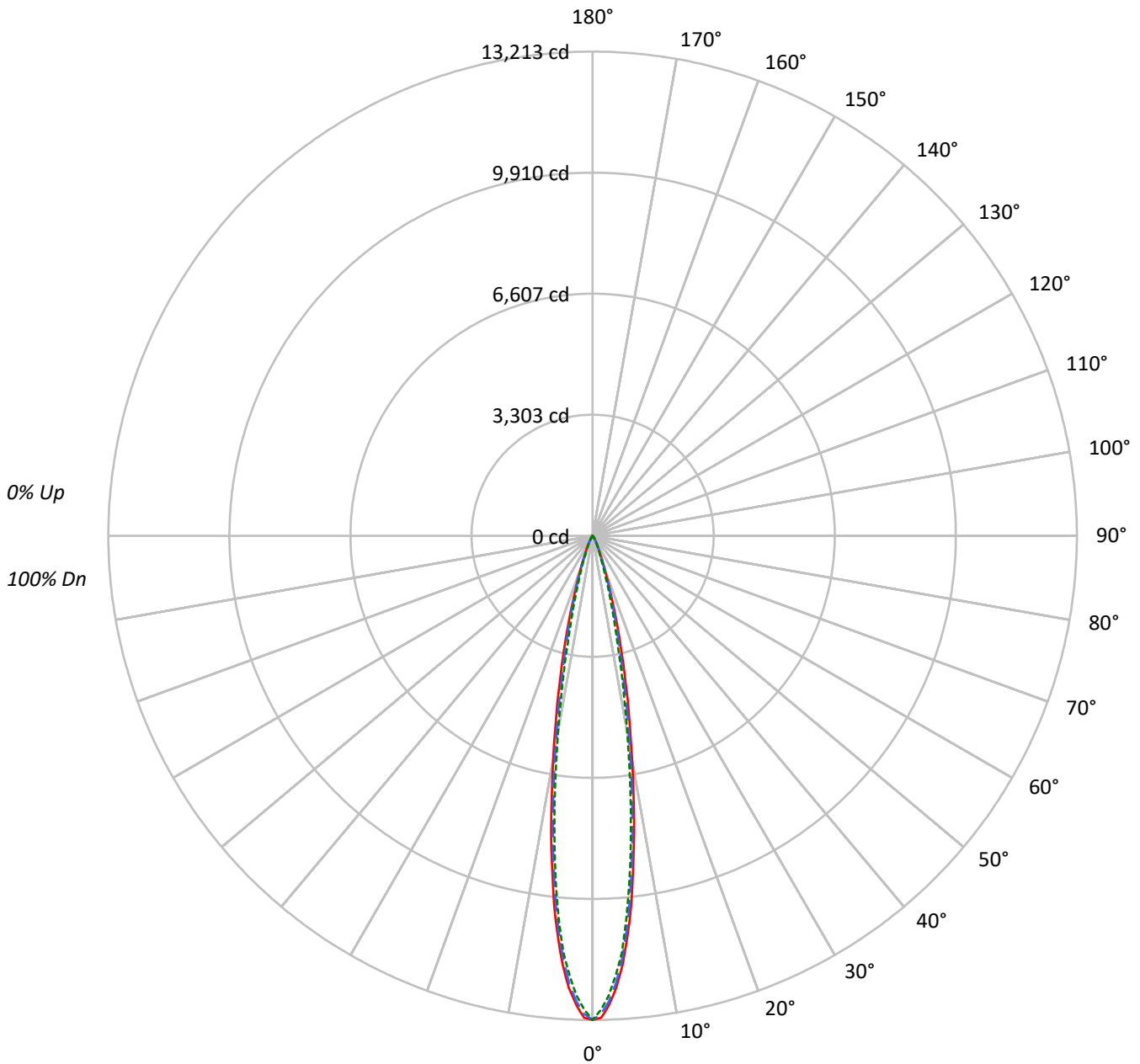
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282757

CATALOG NUMBER: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P282757

CATALOG NUMBER: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS

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°	6518691	6518691	6518691
5°	5424235	5324790	5217321
10°	3106932	2915511	2721033
15°	1381877	1227319	1028478
20°	501294	471367	373450
25°	192487	179749	154763
30°	83003	77192	68476
35°	39269	39269	32523
40°	19708	20352	16423
45°	11373	10675	9977
50°	7829	7061	7061
55°	6107	4387	5247
60°	5032	3059	4046
65°	3619	2335	3619
70°	2885	1442	2885
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282757

CATALOG NUMBER: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.4	48.1
10°-20°	695.4	38.9
20°-30°	167.7	9.4
30°-40°	42.7	2.4
40°-50°	12.7	0.7
50°-60°	5.4	0.3
60°-70°	2.6	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°	1722.5	96.4
0°-40°	1765.2	98.8
0°-60°	1783.4	99.8
0°-90°	1786.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13213	13213	13213	13213	13213	
5°	10953	10852	10752	10658	10535	886
15°	2706	2641	2403	2164	2014	771
25°	354	356	330	300	284	183
35°	65	66	65	59	54	45
45°	16	16	15	14	14	14
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



TEST NUMBER: P282757

CATALOG NUMBER: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13212.8	13212.8	13212.8	13212.8	13212.8
1°	13153.7	13062.0	13050.8	13107.8	12939.7
2°	12817.4	12752.2	12714.5	12748.1	12557.6
3°	12355.8	12292.6	12224.3	12225.4	12012.4
4°	11727.1	11677.1	11562.0	11527.3	11404.0
5°	10952.6	10851.7	10751.8	10658.1	10534.8
6°	10096.6	9966.2	9823.5	9683.9	9557.5
7°	9089.8	9003.2	8814.7	8624.1	8517.1
8°	8143.1	8003.5	7783.4	7544.9	7454.2
9°	7125.1	7025.2	6772.5	6495.3	6404.6
10°	6201.8	6097.9	5819.7	5510.9	5431.5
11°	5335.7	5237.8	4948.4	4624.4	4539.8
12°	4603.0	4464.4	4132.2	3850.9	3768.4
13°	3873.4	3778.6	3463.7	3185.5	3025.5
14°	3252.8	3174.3	2889.0	2644.4	2475.2
15°	2705.5	2641.3	2402.9	2164.4	2013.6
16°	2219.5	2179.7	1991.2	1760.9	1637.6
17°	1800.6	1763.9	1643.7	1431.7	1327.8
18°	1454.2	1449.1	1349.2	1165.8	1073.0
19°	1196.3	1194.3	1102.6	948.7	872.3
20°	954.8	968.1	897.8	763.3	711.3
21°	778.5	785.7	729.6	627.7	580.8
22°	633.8	638.9	602.2	518.7	493.2
23°	519.7	522.8	492.2	430.0	407.6
24°	428.0	430.0	402.5	358.7	339.3
25°	353.6	355.6	330.2	299.6	284.3
26°	293.5	295.5	273.1	251.7	236.4
27°	243.5	247.6	225.2	212.0	195.7
28°	207.9	208.9	188.5	180.4	165.1
29°	170.2	176.3	159.0	151.8	140.6
30°	145.7	148.8	135.5	130.4	120.2
32.5°	96.8	98.8	92.7	88.7	80.5
35°	65.2	66.2	65.2	59.1	54.0
37.5°	44.8	44.8	45.9	38.7	36.7
40°	30.6	30.6	31.6	26.5	25.5
42.5°	22.4	22.4	21.4	18.3	18.3
45°	16.3	16.3	15.3	14.3	14.3
47.5°	13.2	12.2	11.2	11.2	11.2
50°	10.2	10.2	9.2	8.2	9.2
52.5°	8.2	8.2	7.1	7.1	7.1
55°	7.1	6.1	5.1	5.1	6.1
57.5°	5.1	5.1	4.1	4.1	5.1
60°	5.1	4.1	3.1	4.1	4.1



TEST NUMBER: P282757

CATALOG NUMBER: LDA2B208040D010 EU2B20NFL258040 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	4.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	2.0	2.0	3.1



(END OF REPORT)