

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: P284053

Luminaire Tested: **LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

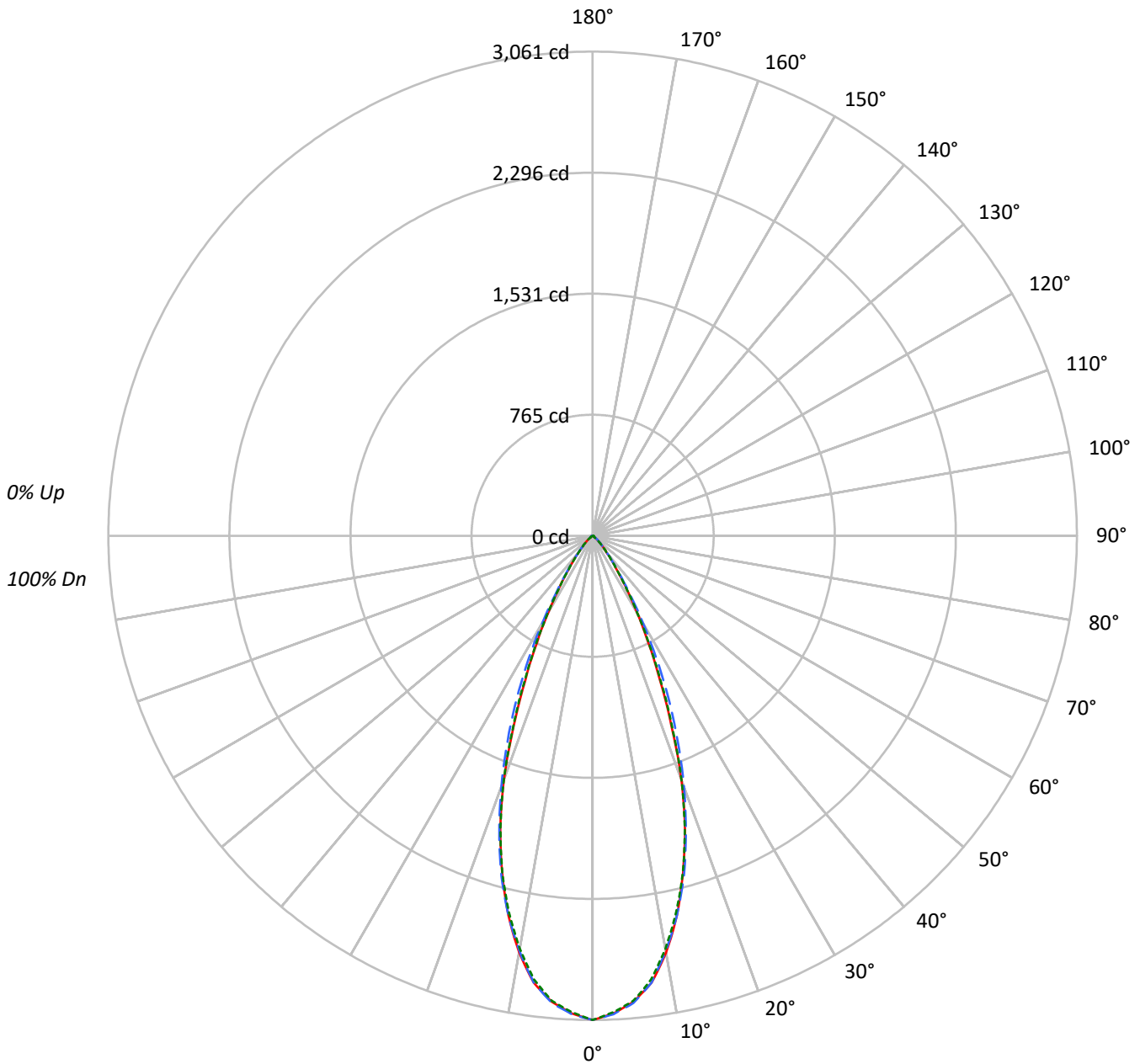
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284053

CATALOG NUMBER: LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P284053

CATALOG NUMBER: LDA2B208027D010 EU2B20WFL558027 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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1510131	1510131	1510131
5°	1464741	1468306	1461670
10°	1340753	1335393	1327377
15°	1127771	1138241	1125932
20°	862405	885349	861040
25°	547685	617473	558300
30°	318511	359585	324094
35°	168398	179119	168880
40°	88877	92870	88877
45°	49678	51561	50306
50°	23256	29397	23256
55°	8429	16085	9204
60°	9670	9670	9670
65°	10390	11440	10390
70°	12838	11540	12838
75°	11818	11818	11818
80°	12785	10228	12785
85°	10189	10189	10189



TEST NUMBER: P284053

CATALOG NUMBER: LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	16.5
10°-20°	608.4	36.6
20°-30°	491.3	29.6
30°-40°	194.2	11.7
40°-50°	59.6	3.6
50°-60°	15.4	0.9
60°-70°	9.3	0.6
70°-80°	6.8	0.4
80°-90°	2.1	0.1
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°	1372.9	82.7
0°-40°	1567.1	94.4
0°-60°	1642.1	98.9
0°-90°	1660.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3061	3061	3061	3061	3061	
5°	2958	2963	2965	2958	2951	274
15°	2208	2214	2228	2220	2204	606
25°	1006	1054	1134	1074	1026	468
35°	280	288	297	288	280	187
45°	71	72	74	73	72	58
55°	10	13	19	13	11	12
65°	9	10	10	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P284053

CATALOG NUMBER: LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3060.9	3060.9	3060.9	3060.9	3060.9
2.5°	3022.6	3024.4	3027.1	3023.5	3014.6
5°	2957.6	2963.0	2964.8	2958.5	2951.4
7.5°	2850.8	2844.6	2849.9	2839.2	2830.3
10°	2676.3	2668.3	2665.6	2649.6	2649.6
12.5°	2460.8	2458.2	2459.9	2451.9	2439.5
15°	2208.0	2214.2	2228.5	2219.6	2204.4
17.5°	1940.0	1948.9	1961.4	1958.7	1938.2
20°	1642.6	1668.5	1686.3	1669.3	1640.0
22.5°	1304.3	1359.5	1404.9	1369.3	1321.2
25°	1006.1	1054.1	1134.3	1073.7	1025.6
27.5°	763.0	797.7	870.7	811.1	778.1
30°	559.1	580.5	631.2	592.1	568.9
32.5°	399.8	414.9	436.3	413.1	401.5
35°	279.6	287.6	297.4	288.5	280.4
37.5°	196.8	199.4	206.6	199.4	195.9
40°	138.0	138.9	144.2	139.8	138.0
42.5°	99.7	99.7	102.4	100.6	99.7
45°	71.2	72.1	73.9	73.0	72.1
47.5°	50.7	52.5	52.5	53.4	49.9
50°	30.3	37.4	38.3	37.4	30.3
52.5°	16.0	22.3	27.6	22.3	16.0
55°	9.8	13.4	18.7	13.4	10.7
57.5°	9.8	9.8	12.5	10.7	9.8
60°	9.8	9.8	9.8	9.8	9.8
62.5°	9.8	9.8	9.8	9.8	9.8
65°	8.9	9.8	9.8	9.8	8.9
67.5°	8.9	8.9	8.9	8.9	8.9
70°	8.9	8.9	8.0	8.9	8.9
72.5°	8.0	8.0	7.1	8.0	8.0
75°	6.2	6.2	6.2	6.2	6.2
77.5°	5.3	5.3	5.3	5.3	5.3
80°	4.5	4.5	3.6	4.5	4.5
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)