

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: P283746

Luminaire Tested: **LDA2B209024D010 EU2B20FL409024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209024D010 EU2B20FL409024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1149.6 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

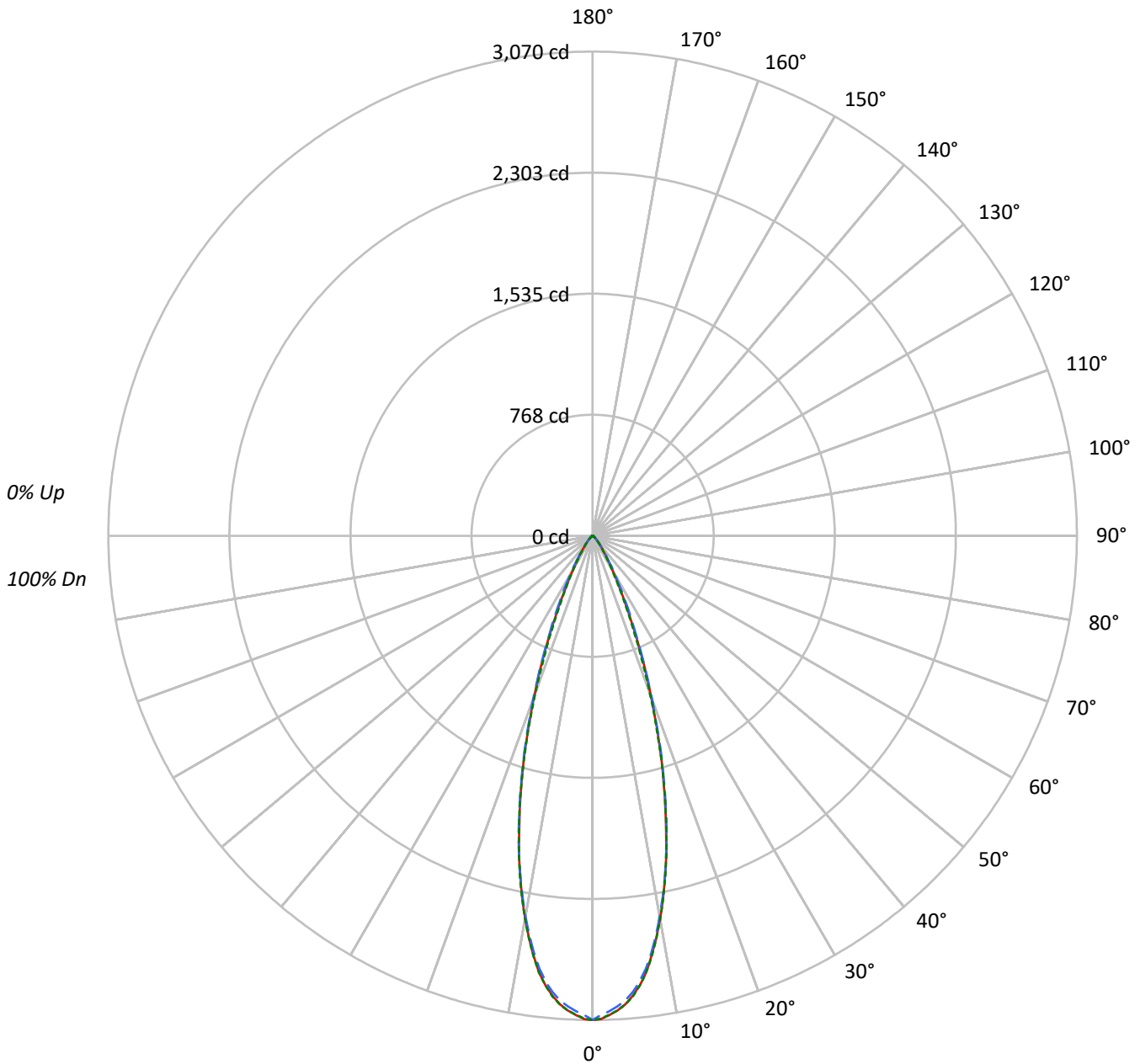
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283746

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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1514719	1514719	1514719
5°	1449586	1438740	1451815
10°	1234998	1227233	1236300
15°	910236	916160	913198
20°	568234	578735	555686
25°	293521	314969	278769
30°	140712	161335	134104
35°	72635	80405	67998
40°	40703	42764	38642
45°	24769	24769	23862
50°	12895	15811	12895
55°	6623	10580	7225
60°	7598	7598	7598
65°	8288	8288	8288
70°	10242	9232	10242
75°	9912	9912	9912
80°	9092	9092	9092
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	23.0
10°-20°	485.1	42.2
20°-30°	263.0	22.9
30°-40°	84.4	7.3
40°-50°	28.8	2.5
50°-60°	10.1	0.9
60°-70°	7.3	0.6
70°-80°	5.4	0.5
80°-90°	1.5	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°	1012.1	88.0
0°-40°	1096.6	95.4
0°-60°	1135.4	98.8
0°-90°	1149.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3070	3070	3070	3070	3070	
5°	2927	2909	2905	2934	2932	265
15°	1782	1797	1794	1802	1788	483
25°	539	564	579	539	512	258
35°	121	126	134	121	113	81
45°	36	36	36	36	34	28
55°	8	10	12	10	8	8
65°	7	8	7	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3070.2	3070.2	3070.2	3070.2	3070.2
1°	3065.0	3043.1	3039.9	3068.3	3061.8
2°	3040.5	3019.9	3016.7	3045.0	3039.2
3°	3013.4	2994.7	2988.3	3017.9	3014.1
4°	2977.3	2959.9	2954.1	2983.8	2980.5
5°	2927.0	2908.9	2905.1	2934.1	2931.5
6°	2865.1	2850.2	2843.1	2872.2	2867.0
7°	2787.7	2774.1	2766.4	2787.7	2790.3
8°	2687.1	2680.6	2671.6	2692.9	2692.9
9°	2580.0	2574.2	2564.5	2583.9	2583.9
10°	2465.2	2461.3	2449.7	2467.8	2467.8
11°	2339.4	2337.5	2329.1	2343.9	2343.9
12°	2207.2	2211.7	2204.0	2216.9	2212.3
13°	2075.0	2073.0	2073.7	2083.3	2076.2
14°	1925.3	1936.9	1938.9	1944.7	1933.7
15°	1782.1	1797.0	1793.7	1802.1	1787.9
16°	1635.7	1652.5	1651.8	1653.8	1640.2
17°	1499.0	1508.6	1509.3	1507.4	1490.6
18°	1353.2	1366.7	1366.7	1363.5	1343.5
19°	1210.7	1221.0	1228.1	1221.0	1197.8
20°	1082.3	1089.4	1102.3	1084.2	1058.4
21°	959.1	965.6	976.5	955.2	926.9
22°	841.1	849.5	859.8	835.3	805.6
23°	730.8	750.1	754.0	720.5	695.3
24°	629.5	651.4	657.9	623.7	597.3
25°	539.2	563.7	578.6	538.6	512.1
26°	461.2	485.0	503.1	463.1	438.0
27°	392.8	418.0	436.7	399.3	375.4
28°	334.1	358.6	378.0	343.1	320.6
29°	290.2	304.4	323.8	294.8	274.1
30°	247.0	262.5	283.2	253.5	235.4
32.5°	169.6	178.0	194.1	176.1	161.9
35°	120.6	125.8	133.5	121.3	112.9
37.5°	85.8	88.4	92.9	85.8	81.3
40°	63.2	64.5	66.4	62.6	60.0
42.5°	47.1	47.7	47.7	46.4	45.1
45°	35.5	36.1	35.5	35.5	34.2
47.5°	25.8	27.7	27.1	27.1	25.2
50°	16.8	20.6	20.6	20.0	16.8
52.5°	10.3	14.2	16.1	14.2	11.0
55°	7.7	9.7	12.3	9.7	8.4
57.5°	7.7	7.7	9.0	7.7	7.7
60°	7.7	7.7	7.7	7.7	7.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.1	7.1	7.1	7.1	7.1
70°	7.1	7.1	6.4	7.1	7.1
72.5°	6.4	6.4	5.8	6.4	5.8
75°	5.2	5.2	5.2	5.2	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.2	3.2	3.2	3.2	3.2
82.5°	1.9	1.9	1.9	2.6	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	7.7	7.7	7.7	7.7	7.7
65°	7.1	7.7	7.1	7.7	7.1



(END OF REPORT)