

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: P283757

Luminaire Tested: **LDA2B209030D010 EU2B20FL409030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283757
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: LDA2B209030D010 EU2B20FL409030 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1341.8 lumens
Efficiency: N/A
Efficacy: 65.1 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

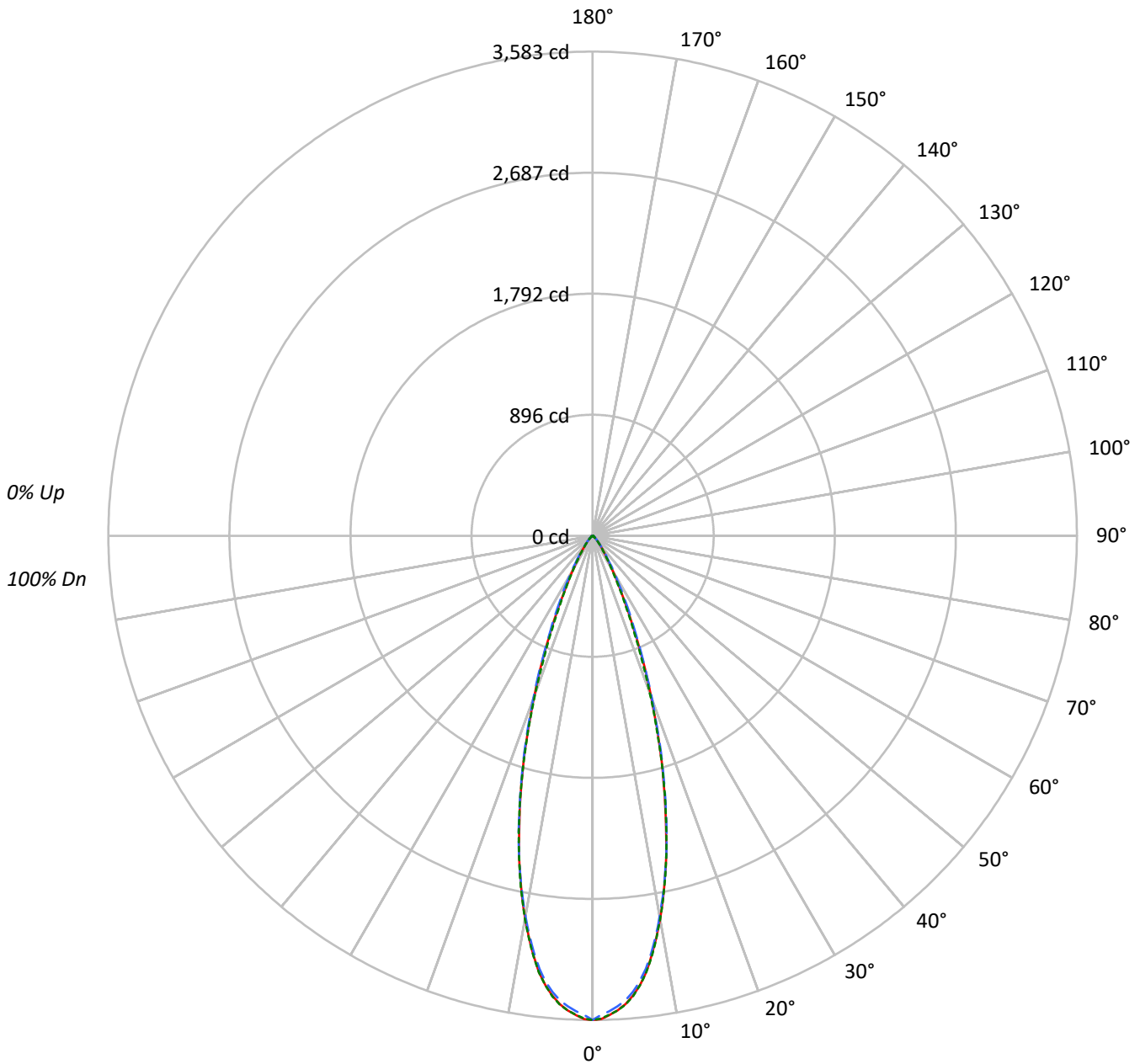
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1767913	1767913	1767913
5°	1691910	1679232	1694535
10°	1441449	1432381	1442952
15°	1062393	1069339	1065866
20°	663211	675497	648615
25°	342623	367609	325367
30°	164240	188281	156549
35°	84802	93836	79321
40°	47530	49913	45083
45°	28886	28886	27839
50°	15044	18498	15044
55°	7741	12300	8429
60°	8881	8881	8881
65°	9689	9689	9689
70°	11973	10819	11973
75°	11437	11437	11437
80°	10796	10796	10796
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	23.0
10°-20°	566.2	42.2
20°-30°	306.9	22.9
30°-40°	98.5	7.3
40°-50°	33.6	2.5
50°-60°	11.8	0.9
60°-70°	8.6	0.6
70°-80°	6.2	0.5
80°-90°	1.8	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°	1181.3	88.0
0°-40°	1279.9	95.4
0°-60°	1325.2	98.8
0°-90°	1341.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1341.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3583	3583	3583	3583	3583	
5°	3416	3395	3391	3425	3422	309
15°	2080	2097	2094	2103	2087	564
25°	629	658	675	629	598	302
35°	141	147	156	142	132	95
45°	41	42	41	41	40	33
55°	9	11	14	11	10	10
65°	8	9	8	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3583.4	3583.4	3583.4	3583.4	3583.4
1°	3577.4	3551.8	3548.0	3581.2	3573.6
2°	3548.8	3524.7	3520.9	3554.1	3547.3
3°	3517.2	3495.3	3487.8	3522.4	3517.9
4°	3475.0	3454.7	3447.9	3482.5	3478.8
5°	3416.3	3395.2	3390.7	3424.6	3421.6
6°	3344.0	3326.7	3318.4	3352.3	3346.3
7°	3253.7	3237.9	3228.8	3253.7	3256.7
8°	3136.2	3128.7	3118.2	3143.0	3143.0
9°	3011.3	3004.5	2993.2	3015.8	3015.8
10°	2877.3	2872.8	2859.2	2880.3	2880.3
11°	2730.5	2728.2	2718.4	2735.7	2735.7
12°	2576.1	2581.4	2572.4	2587.4	2582.2
13°	2421.8	2419.6	2420.3	2431.6	2423.3
14°	2247.2	2260.7	2263.0	2269.7	2257.0
15°	2080.0	2097.4	2093.6	2103.4	2086.8
16°	1909.1	1928.7	1928.0	1930.2	1914.4
17°	1749.6	1760.8	1761.6	1759.3	1739.8
18°	1579.4	1595.2	1595.2	1591.5	1568.1
19°	1413.0	1425.1	1433.4	1425.1	1398.0
20°	1263.2	1271.5	1286.6	1265.5	1235.4
21°	1119.4	1127.0	1139.8	1114.9	1081.8
22°	981.7	991.5	1003.5	974.9	940.3
23°	852.9	875.5	880.0	840.9	811.5
24°	734.8	760.3	767.9	728.0	697.1
25°	629.4	658.0	675.3	628.6	597.7
26°	538.3	566.1	587.2	540.5	511.2
27°	458.5	487.8	509.7	466.0	438.1
28°	390.0	418.6	441.2	400.5	374.2
29°	338.8	355.3	377.9	344.0	319.9
30°	288.3	306.4	330.5	295.9	274.8
32.5°	198.0	207.8	226.6	205.5	189.0
35°	140.8	146.8	155.8	141.5	131.7
37.5°	100.1	103.1	108.4	100.1	94.9
40°	73.8	75.3	77.5	73.0	70.0
42.5°	55.0	55.7	55.7	54.2	52.7
45°	41.4	42.2	41.4	41.4	39.9
47.5°	30.1	32.4	31.6	31.6	29.4
50°	19.6	24.1	24.1	23.3	19.6
52.5°	12.0	16.6	18.8	16.6	12.8
55°	9.0	11.3	14.3	11.3	9.8
57.5°	9.0	9.0	10.5	9.0	9.0
60°	9.0	9.0	9.0	9.0	9.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	7.5	8.3	8.3
72.5°	7.5	7.5	6.8	7.5	6.8
75°	6.0	6.0	6.0	6.0	6.0
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.8	3.8	3.8	3.8	3.8
82.5°	2.3	2.3	2.3	3.0	2.3
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	9.0	9.0	9.0	9.0	9.0
65°	8.3	9.0	8.3	9.0	8.3



(END OF REPORT)