

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: P284094

Luminaire Tested: **LDA2B209030D010 EU2B20WFL559030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284094
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: LDA2B209030D010 EU2B20WFL559030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

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): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

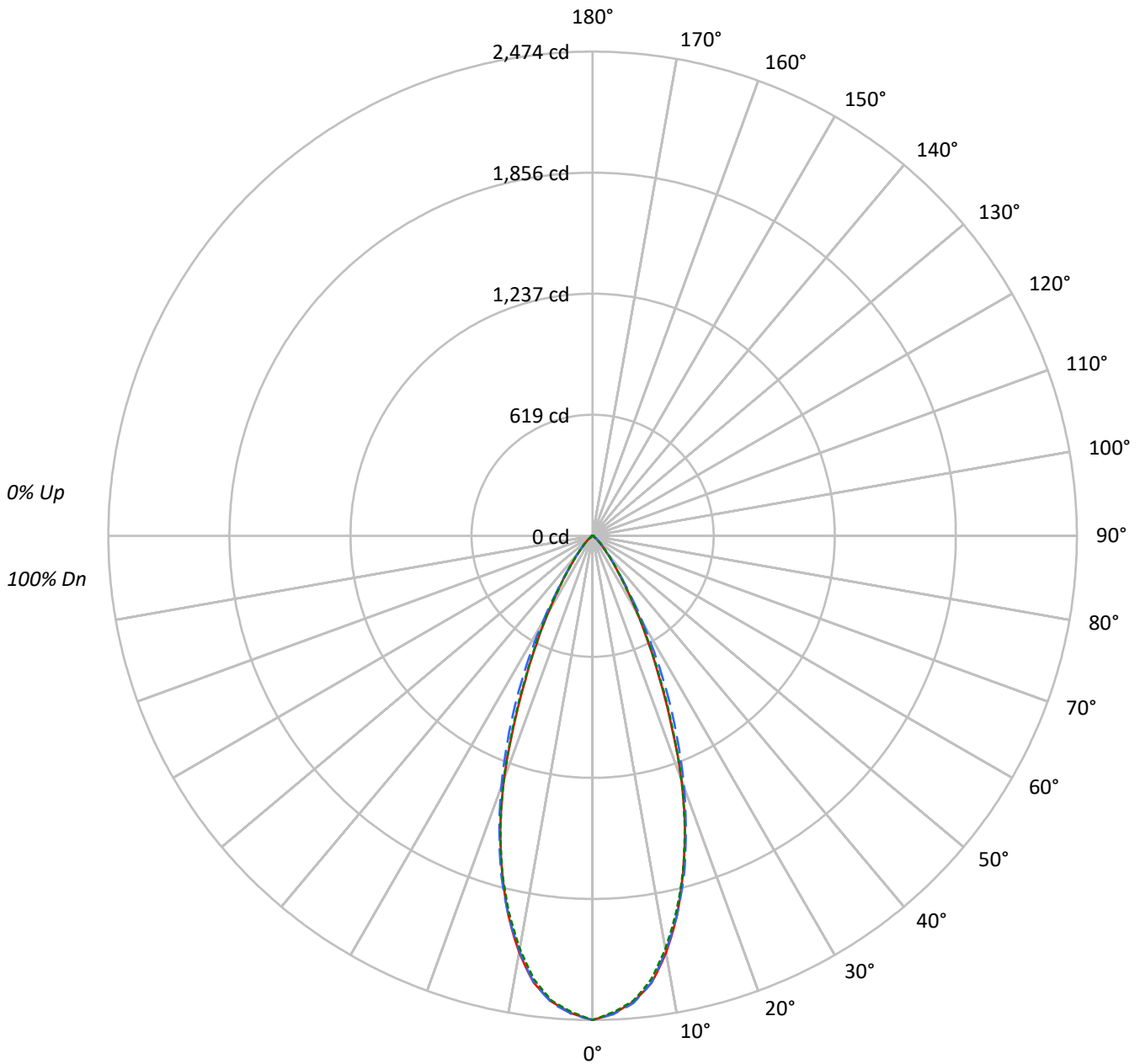
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1220528	1220528	1220528
5°	1183837	1186709	1181361
10°	1083604	1079296	1072833
15°	911461	919940	910031
20°	697023	715556	695920
25°	442623	499019	451278
30°	257441	290653	261941
35°	136056	144729	136538
40°	71810	75095	71810
45°	40189	41654	40677
50°	18805	23717	18805
55°	6795	12988	7397
60°	7795	7795	7795
65°	8405	9222	8405
70°	10386	9376	10386
75°	9531	9531	9531
80°	10228	8239	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	16.5
10°-20°	491.7	36.6
20°-30°	397.1	29.6
30°-40°	156.9	11.7
40°-50°	48.2	3.6
50°-60°	12.4	0.9
60°-70°	7.5	0.6
70°-80°	5.5	0.4
80°-90°	1.6	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°	1109.6	82.7
0°-40°	1266.6	94.4
0°-60°	1327.2	98.9
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°	2474	2474	2474	2474	2474	
5°	2390	2395	2396	2391	2385	221
15°	1784	1790	1801	1794	1782	490
25°	813	852	917	868	829	379
35°	226	232	240	233	227	151
45°	58	58	60	59	58	47
55°	8	11	15	11	9	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2473.9	2473.9	2473.9	2473.9	2473.9
2.5°	2443.0	2444.4	2446.6	2443.7	2436.5
5°	2390.4	2394.7	2396.2	2391.2	2385.4
7.5°	2304.1	2299.0	2303.4	2294.7	2287.5
10°	2163.0	2156.6	2154.4	2141.5	2141.5
12.5°	1988.9	1986.7	1988.2	1981.7	1971.6
15°	1784.5	1789.6	1801.1	1793.9	1781.7
17.5°	1568.0	1575.2	1585.2	1583.1	1566.5
20°	1327.6	1348.5	1362.9	1349.2	1325.5
22.5°	1054.2	1098.8	1135.5	1106.7	1067.9
25°	813.1	852.0	916.7	867.8	829.0
27.5°	616.7	644.7	703.7	655.5	628.9
30°	451.9	469.2	510.2	478.5	459.8
32.5°	323.1	335.3	352.6	333.9	324.5
35°	225.9	232.4	240.3	233.1	226.7
37.5°	159.0	161.2	166.9	161.2	158.3
40°	111.5	112.3	116.6	113.0	111.5
42.5°	80.6	80.6	82.8	81.3	80.6
45°	57.6	58.3	59.7	59.0	58.3
47.5°	41.0	42.5	42.5	43.2	40.3
50°	24.5	30.2	30.9	30.2	24.5
52.5°	13.0	18.0	22.3	18.0	13.0
55°	7.9	10.8	15.1	10.8	8.6
57.5°	7.9	7.9	10.1	8.6	7.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.9	7.9	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.5	7.2	7.2
72.5°	6.5	6.5	5.8	6.5	6.5
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	2.9	3.6	3.6
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)