

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: P274428

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBSW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SINGLE WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 932.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

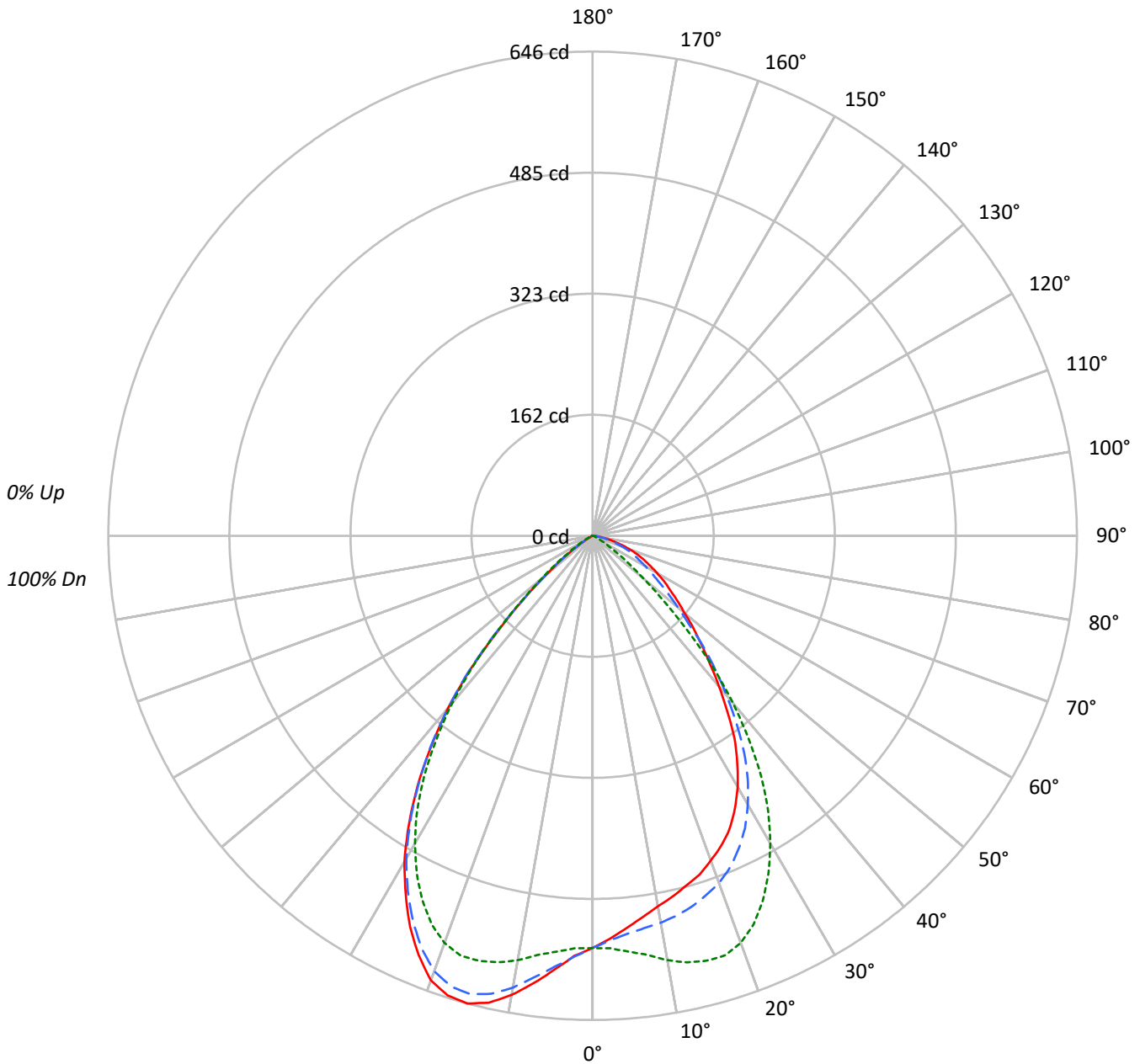
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66																			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																			
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	59	52	47	69	59	52	47	58	51	47	57	51	47	55	50	47	45																			
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30151	30151	30151
5°	28891	30651	31972
10°	27944	32008	34624
15°	27412	33315	36663
20°	26894	33720	36812
25°	26131	32482	34841
30°	24497	30005	31777
35°	22085	26234	27238
40°	18749	20825	21469
45°	15893	13877	13567
50°	13646	7505	6738
55°	12043	3727	2772
60°	10854	1645	658
65°	9729	778	259
70°	8335	641	160
75°	6354	424	0
80°	4420	316	0
85°	3774	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	5.7
10°-20°	161.4	17.3
20°-30°	236.5	25.4
30°-40°	234.5	25.2
40°-50°	147.0	15.8
50°-60°	59.7	6.4
60°-70°	26.6	2.9
70°-80°	11.0	1.2
80°-90°	1.9	0.2
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°	451.4	48.4
0°-40°	685.9	73.6
0°-60°	892.6	95.8
0°-90°	932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	550	550	550	550	550	
5°	525	533	557	577	581	49
15°	483	512	587	633	646	136
25°	432	461	537	567	576	197
35°	330	352	392	405	407	204
45°	205	208	179	179	175	160
55°	126	108	39	31	29	114
65°	75	61	6	2	2	74
75°	30	23	2	1	0	33
85°	6	3	0	0	0	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	550	550	550	550	550	550	550	550	550	550	550
2.5°	538	537	537	538	538	538	538	539	539	540	540
5°	525	524	525	527	527	527	528	529	531	531	533
7.5°	513	513	515	516	517	517	517	520	522	526	528
10°	502	501	505	506	509	508	509	512	516	519	524
12.5°	493	493	496	496	499	501	500	505	508	513	519
15°	483	483	485	487	489	490	491	496	500	505	512
17.5°	474	472	474	476	479	479	482	485	491	496	503
20°	461	461	463	464	467	469	470	474	479	485	493
22.5°	448	448	450	451	454	455	456	461	465	471	479
25°	432	432	434	435	438	438	441	444	448	455	461
27.5°	411	413	413	415	417	418	420	423	427	433	440
30°	387	386	389	390	393	394	397	399	403	409	414
32.5°	359	361	362	363	365	366	368	371	375	379	385
35°	330	330	330	331	333	335	336	339	343	348	352
37.5°	295	296	298	298	301	302	303	306	310	313	315
40°	262	263	264	264	266	268	267	271	273	276	278
42.5°	232	231	234	235	235	237	238	239	240	242	242
45°	205	204	206	206	207	207	208	208	208	210	208
47.5°	182	180	181	181	180	181	181	180	179	177	174
50°	160	160	160	159	159	159	158	158	155	153	148
52.5°	142	142	142	141	139	140	140	137	135	132	127
55°	126	126	126	125	124	123	122	121	117	115	108
57.5°	113	111	111	111	109	109	108	105	102	99	94
60°	99	99	99	97	97	96	95	92	90	86	81
62.5°	86	86	85	85	84	83	82	80	78	75	70
65°	75	75	74	74	73	72	72	70	68	65	61
67.5°	64	64	63	63	62	61	61	59	57	55	52
70°	52	51	51	51	50	49	49	48	46	44	42
72.5°	40	40	40	39	39	38	38	37	36	34	32
75°	30	30	30	29	29	28	28	27	26	25	23
77.5°	22	21	21	20	20	20	20	18	18	17	16
80°	14	14	14	14	13	13	13	12	12	11	10
82.5°	9	9	9	9	9	8	8	8	7	7	6
85°	6	6	5	5	5	5	5	4	4	4	3
87.5°	3	3	3	3	2	2	2	2	2	2	1
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	550	550	550	550	550	550	550	550	550	550	550
2.5°	542	542	546	545	546	545	548	549	550	551	552
5°	537	538	541	543	544	544	549	551	554	557	559
7.5°	533	536	540	544	546	546	553	556	561	564	568
10°	530	535	540	546	551	551	560	565	570	575	581
12.5°	524	532	538	546	551	551	563	570	576	583	591
15°	520	526	536	544	549	551	564	572	579	587	595
17.5°	512	519	529	539	545	548	560	568	578	587	592
20°	501	509	519	530	535	538	552	559	569	578	584
22.5°	487	495	505	515	520	525	537	545	553	561	566
25°	468	478	486	496	501	505	515	523	530	537	544
27.5°	445	454	463	472	476	479	488	496	503	508	514
30°	421	427	436	444	447	449	456	461	469	474	477
32.5°	390	397	402	409	412	414	421	425	431	436	440
35°	358	359	365	371	371	374	380	384	387	392	395
37.5°	318	320	326	329	329	328	334	336	341	342	345
40°	280	282	283	284	284	284	286	285	290	291	292
42.5°	242	241	242	238	238	236	234	234	234	237	238
45°	205	202	196	191	192	188	183	181	179	179	179
47.5°	170	164	157	150	146	142	136	131	128	127	126
50°	142	136	127	117	113	108	101	94	91	88	87
52.5°	120	112	102	91	86	81	74	68	63	60	58
55°	101	93	82	71	67	61	53	47	42	39	36
57.5°	88	79	68	57	52	47	38	32	27	24	22
60°	75	67	57	46	41	36	28	22	17	15	12
62.5°	64	57	48	37	32	28	21	15	11	9	7
65°	56	49	41	32	27	23	17	12	9	6	5
67.5°	47	41	34	26	23	19	14	10	7	5	4
70°	38	33	27	21	18	15	11	8	5	4	3
72.5°	28	25	20	16	13	11	8	6	4	3	2
75°	20	18	14	11	9	8	6	4	3	2	1
77.5°	14	12	10	8	6	6	4	3	2	1	1
80°	9	8	6	5	4	3	2	1	1	1	0
82.5°	5	4	4	3	2	2	1	1	0	0	0
85°	3	2	2	1	1	1	1	0	0	0	0
87.5°	1	1	1	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	550	550	550	550	550	550	550	550	550	550	550
2.5°	553	554	555	556	557	557	557	560	562	562	563
5°	561	564	564	567	568	569	570	574	577	575	578
7.5°	571	578	578	581	583	584	588	592	594	595	596
10°	585	591	594	595	598	600	605	609	612	614	616
12.5°	595	601	604	609	611	614	618	622	626	629	632
15°	601	607	611	614	617	620	624	630	633	635	638
17.5°	598	605	608	613	616	618	622	626	630	631	633
20°	588	594	599	601	604	607	610	614	618	618	622
22.5°	572	578	581	582	584	589	589	594	596	597	600
25°	547	552	555	557	559	560	563	567	567	569	570
27.5°	518	521	524	526	528	528	530	534	534	535	536
30°	483	487	488	490	489	491	494	496	497	496	499
32.5°	442	445	447	449	449	450	450	452	453	454	456
35°	396	399	400	401	404	402	403	405	405	407	405
37.5°	346	350	353	350	351	353	353	353	355	354	354
40°	295	295	296	298	297	300	299	300	299	300	301
42.5°	240	237	241	239	241	241	241	242	243	242	240
45°	177	179	176	176	177	178	178	178	179	177	178
47.5°	125	124	123	123	124	123	123	125	123	123	122
50°	87	85	85	83	84	83	84	84	82	83	82
52.5°	56	56	54	54	54	54	53	53	53	51	51
55°	35	34	32	32	32	31	30	30	31	30	30
57.5°	20	19	17	17	17	16	16	15	15	15	15
60°	11	9	8	8	8	7	7	7	6	6	6
62.5°	5	4	4	3	3	3	3	3	2	2	2
65°	4	3	2	2	2	2	2	2	2	2	2
67.5°	3	2	2	2	2	2	2	1	1	2	1
70°	2	2	2	2	2	1	1	1	1	1	1
72.5°	2	2	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	0	1	1	1
77.5°	1	1	1	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	550	550	550	550	550	550	550	550
2.5°	564	565	563	564	564	565	563	561
5°	581	581	580	581	580	581	582	581
7.5°	600	601	602	601	601	602	603	602
10°	619	620	622	621	623	624	622	622
12.5°	633	635	637	636	638	639	639	638
15°	640	644	644	643	645	647	647	646
17.5°	637	640	640	641	642	644	643	643
20°	625	628	627	627	628	631	630	631
22.5°	603	604	605	605	605	608	607	606
25°	574	576	576	576	577	577	577	576
27.5°	540	541	542	540	540	542	542	540
30°	502	501	502	501	502	502	502	502
32.5°	458	457	458	456	457	457	458	456
35°	407	407	410	408	408	407	406	407
37.5°	357	356	356	354	354	357	355	353
40°	300	299	300	299	299	300	300	300
42.5°	244	243	244	242	242	243	241	240
45°	178	177	179	179	178	178	177	175
47.5°	122	122	123	122	122	123	122	123
50°	81	81	82	81	81	81	80	79
52.5°	52	51	51	51	51	51	50	50
55°	29	29	29	29	29	28	29	29
57.5°	14	14	14	14	14	14	13	14
60°	6	6	6	6	6	6	6	6
62.5°	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2
67.5°	1	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1
75°	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0



Report Generated By E9808895 / USPTCWHP6082093





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













(END OF REPORT)