



Report No.: BLC1906012E-N

LM-79-08 Test Report

For

LED One Corporation

(Brand Name:LED ONE)

45885 Hotchkiss St Fremont, CA 94539 USA

Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Model name(s): LOC-LWAL-320WXXKD-T3LV-MZ

Remark: "XX" represents different CCT, can be 40=4000K, 50=5000K, 57=5700K. "Z" stands for sensors options, can be "D" or "N" to represent sensor or None sensor. "R" represents mounting options, can be S=Slip Fitter Arm, E=Extruded Arm, M=Surface mounting Arm, F=Slip Fitter+ E=Extruded Arm.

Representative (Tested) Model:

LOC-LWAL-320W40KD-T3LV-MZ

Model Different: All construction and rating are the same, except CCT

Test & Report By:

Sherry Yang

Engineer: Sherry Yang

Date: Jun.11, 2019

Review By:

Jason Luo

Manager: Jason Luo

Laboratory: Belling Test Laboratory Co., LTD A2LA Certificate# 4810.01
Unit 401, No. 309 Xinxin Seven Road, Zengcheng District,
Guangzhou, People' s Republic of China. Website: <http://www.blst.com>

Report Format Number BL-FM-SA-012



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1.1 Product Information:

Organization Name	LED One Corporation	
Brand Name	LED ONE	
Model Number	LOC-LWAL-320WXXKD-T3LV-MZ	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	
Rated Voltage / Frequency	120-347Vac, 50/60Hz	
Nominal Power	320W	
Rated Initial Lamp Lumen	--	
Declared CCT	4000K,5000K,5700K	
Sample Number	BLC1906012E-N1(4000K)	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

Photo





1.2 Test Specifications:

Date of Receipt	June 05, 2019
Date of Test	June 06, 2019
Test item	<ol style="list-style-type: none">1. Total Luminous Flux2. Luminous Distribution Intensity3. Luminous Efficacy4. Correlated Color Temperature5. Color Rendering Index6. Chromaticity Coordinate7. Electrical Parameters
Reference Standard	<ol style="list-style-type: none">1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources4. CIE 15-2004 Technical Report Colorimetry5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	BL-QP-033

1.3 Test Methods

1) Photometric and Light Distribution Measurement – Goniophotometer Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.

2) Chromaticity Measurement – Sphere-Spectroradiometer Method:

Chromaticity parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm.

3) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.

**2.1 Electrical, Photometric and Chromaticity Measurements***(Refer to Work Instruction BL-QP-033)*

Test date	2019-06-06	Test Ambient:	25.2 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	LOC-LWAL-320W40KD-T3LV-MZ		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
BLC190601	120.0	60	2.5888	309.41	0.996	2.62
2E-N1	347.0	60	0.8917	300.75	0.972	8.79
DLC Pass Criteria					>= 0.9(-3%)	<= 20(+5)

Photometric Measurement – Goniophotometer Method:

Parameter	Result		DLC V4.4 Pass Criteria
Test Voltage (V)	200.0	347.0	--
Frequency (Hz)	60	60	--
Total Luminous (lm)	42545.7	41755.6	>=30000 (-10%)
Luminous Efficacy (lm/W)	137.51	138.84	Premium:>= 120 (-3%)
Most worst Luminous/Highest Watts	134.95		
Zonal lumens in the 0-90° zone (%)	99.7		>=100(-1)
Zonal lumens in the 80-90° zone (%)	0.7		≤10(+3)
Beam Angle (°)	134.1		--
Center Beam Candle Power (cd)	8505		--



Zonal Lumen Tabulation

Zonal Lumen Summary

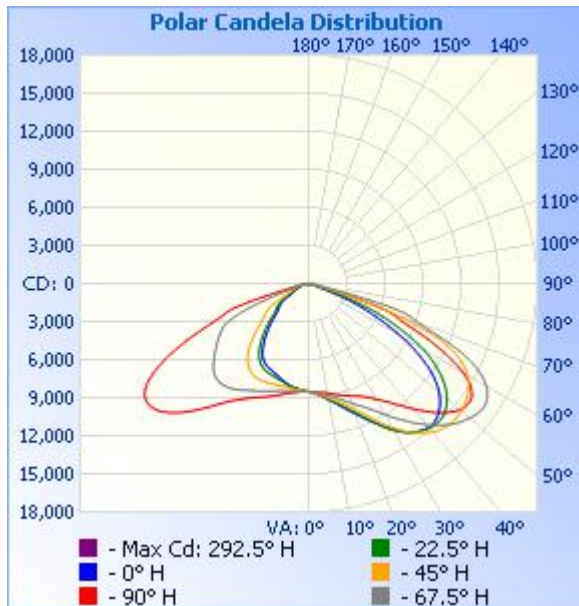
Zone	Lumens	% Lamp	% Luminaire
0-30	8,007.7	18.8%	18.8%
0-40	14,956.8	35.2%	35.2%
0-60	33,052.3	77.7%	77.7%
60-90	9,349.0	22%	22%
70-100	2,396.7	5.6%	5.6%
90-120	55.5	0.1%	0.1%
0-90	42,401.3	99.7%	99.7%
90-180	140.9	0.3%	0.3%
0-180	42,542.2	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	824.0	1.9%	90-100	17.5	0%
10-20	2,571.2	6.0%	100-110	17.5	0%
20-30	4,612.6	10.8%	110-120	20.6	0%
30-40	6,949.0	16.3%	120-130	22.3	0.1%
40-50	8,791.8	20.7%	130-140	20.7	0%
50-60	9,303.7	21.9%	140-150	18.4	0%
60-70	6,969.8	16.4%	150-160	13.6	0%
70-80	2,074.5	4.9%	160-170	7.9	0%
80-90	304.7	0.7%	170-180	2.6	0%

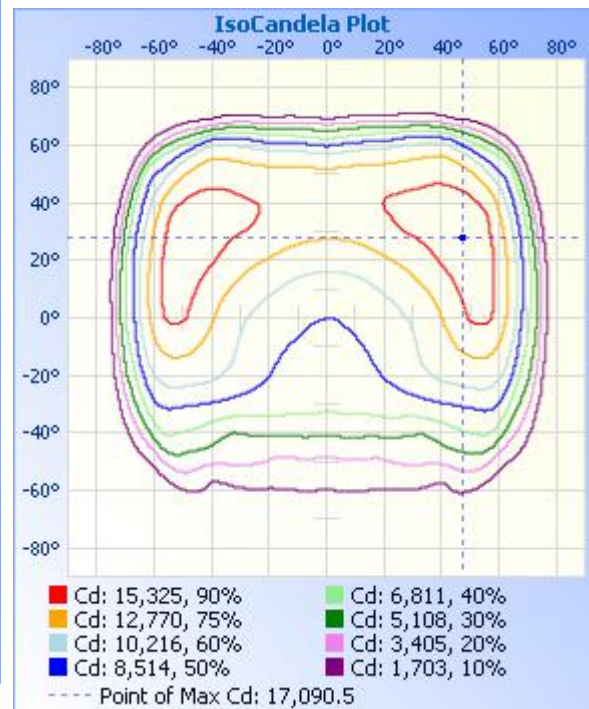
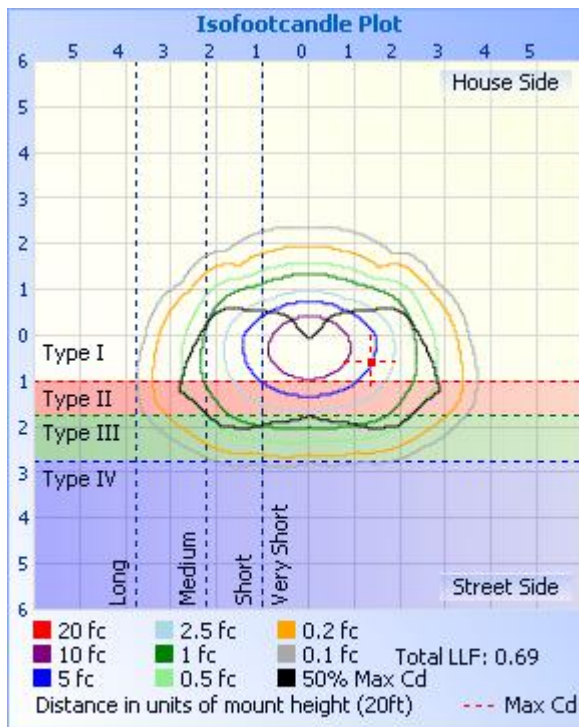


Photometric Data



Height	Center Beam fc	Beam Width
17.0ft	29.4 fc	34.5 ft 80.2 ft
34.0ft	7.36 fc	68.9 ft 160.4 ft
51.0ft	3.27 fc	103.4 ft 240.7 ft
68.0ft	1.84 fc	137.9 ft 320.9 ft
85.0ft	1.18 fc	172.4 ft 401.1 ft
102.0ft	0.82 fc	206.8 ft 481.3 ft

■ Vert. Spread: 90.8°
■ Horiz. Spread: 134.1°





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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505	8505
1	8549	8541	8539	8519	8509	8495	8483	8478	8469	8468	8485	8491	8504	8524	8537	8550	8549
2	8607	8599	8579	8545	8524	8483	8459	8450	8436	8440	8459	8487	8505	8547	8578	8601	8607
3	8697	8683	8635	8569	8537	8480	8439	8421	8406	8415	8439	8487	8518	8576	8630	8688	8697
4	8697	8683	8718	8606	8556	8477	8425	8394	8379	8390	8424	8495	8529	8614	8687	8702	8697
5	8787	8756	8723	8678	8594	8479	8417	8374	8355	8362	8411	8502	8557	8669	8688	8762	8787
6	8871	8839	8781	8684	8642	8488	8411	8354	8331	8336	8401	8511	8589	8669	8784	8843	8871
7	8960	8928	8863	8736	8659	8500	8403	8326	8297	8307	8394	8526	8654	8742	8859	8934	8960
8	9062	9027	8951	8812	8659	8516	8404	8300	8264	8277	8388	8541	8659	8819	8943	9027	9062
9	9175	9135	9042	8886	8707	8525	8395	8270	8223	8238	8379	8561	8689	8894	9034	9124	9175
10	9306	9247	9146	8962	8767	8551	8391	8233	8180	8196	8374	8582	8753	8974	9128	9231	9306
11	9439	9384	9247	9035	8825	8574	8379	8199	8125	8156	8363	8612	8811	9060	9227	9349	9439
12	9573	9509	9353	9119	8886	8601	8364	8164	8074	8121	8354	8662	8874	9137	9343	9470	9573
13	9707	9643	9465	9214	8949	8639	8349	8128	8006	8075	8351	8684	8939	9234	9457	9613	9707
14	9858	9784	9586	9315	9021	8669	8343	8091	7940	8031	8346	8683	9007	9335	9577	9751	9858
15	10020	9932	9728	9424	9083	8669	8337	8037	7875	7988	8347	8731	9080	9443	9706	9893	10020
16	10185	10085	9861	9536	9144	8669	8330	7982	7814	7940	8353	8793	9154	9552	9834	10046	10185
17	10385	10251	10008	9652	9206	8708	8325	7932	7752	7901	8357	8846	9226	9661	9976	10206	10385
18	10565	10442	10164	9772	9260	8753	8332	7891	7693	7868	8367	8899	9307	9781	10120	10367	10565
19	10750	10632	10339	9900	9332	8793	8332	7860	7634	7842	8384	8958	9389	9914	10289	10551	10750
20	10947	10830	10519	10043	9406	8834	8332	7825	7581	7814	8401	9018	9468	10039	10459	10752	10947
21	11151	11045	10741	10176	9473	8878	8339	7788	7530	7789	8427	9084	9554	10168	10641	10944	11151
22	11394	11281	10949	10314	9537	8929	8348	7760	7485	7763	8451	9145	9633	10302	10834	11150	11394
23	11610	11520	11176	10456	9614	8981	8353	7728	7438	7738	8468	9210	9708	10444	11073	11371	11610
24	11835	11758	11422	10613	9699	9042	8365	7693	7396	7706	8478	9267	9800	10593	11307	11610	11835
25	12062	12011	11672	10807	9803	9109	8379	7670	7353	7683	8487	9331	9897	10768	11571	11893	12062
26	12294	12263	11966	10989	9910	9185	8391	7639	7307	7657	8493	9404	9991	10951	11852	12160	12294
27	12563	12535	12243	11180	10038	9265	8403	7608	7260	7616	8490	9466	10111	11142	12152	12429	12563
28	12799	12818	12521	11399	10174	9349	8413	7563	7204	7564	8489	9538	10229	11358	12435	12706	12799
29	13028	13078	12797	11623	10320	9435	8414	7511	7131	7499	8474	9618	10354	11592	12766	12965	13028

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30	13252	13324	13060	11879	10485	9528	8408	7444	7034	7424	8454	9702	10487	11877	13058	13249	13252
31	13474	13553	13327	12132	10657	9624	8387	7357	6932	7327	8421	9795	10630	12132	13341	13494	13474
32	13711	13767	13612	12389	10844	9731	8347	7233	6802	7226	8384	9895	10805	12402	13618	13725	13711
33	13921	13973	13858	12651	11049	9835	8290	7096	6654	7100	8328	9984	10993	12684	13890	13921	13921
34	14108	14147	14101	12910	11259	9933	8227	6949	6488	6961	8256	10063	11187	12958	14159	14116	14108
35	14273	14304	14314	13163	11515	10025	8153	6789	6285	6788	8167	10152	11404	13252	14389	14292	14273
36	14413	14451	14532	13432	11763	10112	8062	6612	6085	6616	8059	10234	11645	13521	14623	14467	14413
37	14540	14566	14729	13730	12016	10197	7948	6398	5875	6437	7948	10311	11904	13788	14839	14620	14540
38	14621	14663	14929	13994	12285	10267	7801	6187	5652	6243	7818	10370	12198	14072	15041	14745	14621
39	14705	14763	15090	14259	12597	10332	7637	5964	5426	6016	7663	10419	12509	14361	15245	14862	14705
40	14760	14839	15242	14512	12894	10379	7457	5738	5174	5797	7488	10453	12803	14629	15414	14972	14760
41	14774	14899	15379	14773	13195	10412	7254	5494	4939	5560	7294	10468	13120	14888	15564	15047	14774
42	14756	14936	15486	15016	13487	10430	7041	5245	4705	5315	7063	10481	13448	15138	15696	15099	14756
43	14687	14945	15570	15266	13779	10425	6777	4971	4468	5071	6838	10469	13750	15377	15817	15142	14687
44	14599	14937	15645	15473	14095	10406	6525	4719	4210	4796	6596	10437	14047	15638	15864	15147	14599
45	14467	14897	15683	15698	14369	10356	6251	4460	3981	4538	6316	10388	14366	15842	15920	15127	14467
46	14314	14806	15702	15890	14641	10282	5974	4186	3766	4290	6060	10309	14655	16066	15961	15070	14314
47	14132	14711	15713	16068	14888	10170	5685	3940	3567	4051	5795	10214	14915	16246	15977	14990	14132
48	13935	14582	15723	16225	15099	10054	5384	3727	3398	3826	5536	10098	15140	16436	15989	14876	13935
49	13699	14411	15710	16364	15313	9918	5131	3543	3239	3613	5283	9955	15362	16587	15968	14713	13699
50	13447	14238	15678	16512	15471	9762	4900	3397	3128	3457	5024	9783	15544	16741	15930	14529	13447
51	13135	14009	15623	16631	15615	9572	4678	3267	3037	3323	4804	9620	15662	16878	15887	14317	13135
52	12796	13762	15564	16747	15715	9386	4503	3183	2952	3212	4599	9454	15750	16982	15823	14073	12796
53	12409	13494	15496	16823	15738	9202	4343	3109	2867	3115	4422	9284	15801	17044	15746	13814	12409
54	11984	13152	15407	16876	15738	9015	4229	3032	2757	3025	4266	9122	15793	17090	15664	13494	11984
55	11537	12816	15304	16877	15678	8841	4137	2917	2607	2921	4123	8937	15740	17087	15563	13143	11537
56	10997	12404	15167	16835	15531	8671	4042	2767	2420	2780	4000	8756	15605	17056	15448	12792	10997
57	10440	12001	15018	16747	15283	8483	3914	2566	2213	2577	3862	8626	15370	16959	15305	12369	10440
58	9861	11546	14856	16610	15008	8293	3747	2321	1986	2354	3687	8437	15060	16807	15138	11907	9861
59	9283	11046	14691	16435	14592	8123	3516	2069	1749	2109	3452	8272	14680	16617	14970	11440	9283
60	8612	10507	14462	16166	14086	7961	3203	1822	1566	1871	3172	8108	14160	16362	14757	10892	8612
61	7942	9899	14218	15862	13507	7785	2845	1605	1438	1677	2852	7929	13617	16088	14504	10361	7942

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62	7200	9268	13903	15473	12777	7643	2428	1461	1340	1513	2508	7756	12939	15743	14235	9714	7200
63	6490	8589	13518	15003	12050	7509	2074	1366	1270	1417	2156	7565	12206	15331	13878	9076	6490
64	5833	7822	13070	14402	11242	7331	1770	1305	1210	1347	1875	7305	11439	14813	13452	8390	5833
65	5207	7171	12554	13734	10424	7046	1548	1249	1151	1297	1661	6902	10634	14262	12964	7632	5207
66	4573	6411	11896	12985	9544	6628	1400	1205	1091	1250	1508	6371	9784	13636	12300	6930	4573
67	3951	5705	11182	12064	8629	6017	1307	1163	1021	1203	1409	5711	8905	12824	11562	6178	3951
68	3176	4895	10194	11084	7940	5220	1249	1124	926	1158	1335	4923	8152	11883	10663	5323	3176
69	2298	3871	9119	10100	7480	4241	1205	1075	873	1114	1288	4026	7522	10803	9611	4419	2298
70	1463	2907	7901	9346	7093	3304	1167	1022	829	1066	1243	3195	7100	9820	8622	3266	1463
71	978	2078	6515	8823	6486	2444	1129	971	781	1002	1202	2453	6737	9087	7335	2324	978
72	775	1399	5165	8479	5413	1718	1085	912	746	936	1154	1823	6126	8622	6099	1562	775
73	702	1011	3688	7885	4035	1306	1041	848	711	879	1108	1406	4933	8160	4662	1114	702
74	649	811	2517	6652	2748	1085	987	790	672	820	1057	1209	3581	7495	3216	859	649
75	657	718	1623	4841	1760	1027	938	735	636	759	1005	1117	2443	5993	2080	740	657
76	581	677	1082	3054	1191	1002	869	685	593	704	937	1082	1667	4136	1338	675	581
77	484	668	790	1877	811	991	789	630	558	650	858	1066	1158	2640	904	665	484
78	425	604	629	1135	638	979	702	579	520	599	770	1050	867	1624	711	621	425
79	378	511	559	792	548	976	618	532	484	550	684	1036	666	1114	594	549	378
80	334	438	507	623	474	945	548	485	449	496	610	1009	556	769	527	459	334
81	285	389	463	530	414	907	463	438	414	456	519	966	480	614	480	408	285
82	251	348	423	476	367	818	376	392	388	408	436	890	414	516	431	358	251
83	235	300	377	463	300	702	299	346	357	364	359	784	364	451	392	313	235
84	201	227	331	444	247	540	244	294	311	312	289	635	306	412	345	255	201
85	155	163	270	394	198	354	192	258	271	270	238	448	253	383	293	185	155
86	123	145	214	321	147	205	147	212	214	227	181	273	201	321	235	143	123
87	93	111	161	243	102	117	104	162	145	183	138	164	152	254	182	122	93
88	61	74	115	163	62	60	69	105	86	122	95	104	108	176	133	85	61
89	32	44	76	90	27	26	41	51	44	68	58	64	68	109	93	52	32
90	17	24	36	45	12	16	18	21	16	34	31	36	31	55	47	28	17
91	22	20	26	31	12	12	14	10	11	11	18	19	20	31	29	25	22
92	19	17	19	23	8	12	12	11	11	7	18	22	14	22	17	17	19
93	12	18	18	16	13	11	14	11	13	12	12	20	13	18	24	18	12

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94	16	15	19	23	12	12	15	7	10	12	18	22	16	9	21	15	16
95	13	10	18	21	7	14	12	8	8	14	16	18	18	17	21	12	13
96	13	15	21	21	8	12	11	11	8	9	16	17	18	13	16	17	13
97	12	17	21	22	9	13	18	10	8	8	15	18	15	16	19	17	12
98	16	13	20	23	11	11	16	11	10	11	14	17	17	17	20	18	16
99	14	14	17	11	9	14	18	12	10	11	15	23	16	16	19	13	14
100	12	18	15	23	0	10	16	15	9	13	16	18	15	17	19	11	12
101	9	13	0	18	8	12	17	11	10	11	17	22	19	17	15	13	9
102	10	15	15	21	10	17	21	11	14	15	20	20	18	16	20	13	10
103	9	12	7	16	9	19	21	14	10	15	21	23	18	17	16	13	9
104	14	14	20	19	15	21	24	15	8	12	17	21	21	13	16	13	14
105	15	12	15	17	15	17	24	12	14	17	26	24	23	16	18	10	15
106	10	13	15	21	15	19	29	15	13	15	23	25	20	16	19	13	10
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110	12	15	18	22	19	27	30	16	17	18	26	30	26	19	18	12	12
111	10	14	19	29	20	24	29	21	15	18	26	30	21	16	17	11	10
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121	9	13	17	28	39	28	30	28	23	24	28	36	40	18	20	10	9
122	11	13	19	24	41	34	35	27	24	26	25	36	42	20	18	12	11
123	13	12	21	30	35	25	29	24	26	21	33	37	44	17	19	7	13
124	12	17	17	25	40	7	35	29	24	22	31	31	42	21	17	9	12
125	13	10	21	29	40	29	32	28	21	25	29	34	38	22	18	10	13

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180	23	26	27	28	19	27	27	27	20	15	28	29	25	24	22	23	23



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3. Test Equipment

Equipment Name	Model No.	Serial No.	Next Calibration Date
Goniophotometric System	GPM-3000	DYHXF120001	2020-01-14
AC Power Source	CHP-500C	N/A	2020-01-13
Total Luminous Flux Standard Lamp	24V/150W	DYJYR040040	2020-01-21
Digital Power Meter	WT500	DYDWQ200006	2020-01-13
Integral Sphere (2M)	2M	DYJCE120067	2020-01-14
Digital Power Meter	WT500	DYDWQ200006	2020-01-13
Optical Color and Electrical Measurement System	CMS-3000S	DYJCE120067	2020-01-14

Expand Uncertainty:
Photometric Measurement (Sphere): 2.08%, k=2
Chromaticity Measurement(Sphere):25.6K, k=2
Photometric Measurement(Goniophotometer):2.654%, k=2

***** END OF REPORT *****