



Shenzhen Belling Efficiency Testing Lab



NVLAP LAB CODE 600102-0

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## Test report of IES LM-79-08

### Approved Method: Electrical and Photometric

### Measurements of Solid-State Lighting Products

**Applicant:**

BEYOND LED TECHNOLOGY

**For Product:**

Fuel Pump Canopy Luminaires

**Model No.:**

BLT-SWP03-40BA1-WH50

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Complied by: Ike Li

Review by: Jason Zhou

Project Engineer

Technical Manager

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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Shenzhen Belling Efficiency Testing Lab. This report must not be used by the customer to claim product certification, approval, or endorsement By NVLAP, NIST, or any agency of the Federal Government.

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# 1 General

## 1.1 Product Information

<b>Manufacturer</b>	
<b>Manufacturer Address</b>	
<b>Brand Name</b>	
<b>Luminaire Type</b>	Fuel Pump Canopy Luminaires
<b>Model Number</b>	BLT-SWP03-40BA1-WH50 SNC = Company name CP = Product series 150W = Rating Power 231X = First "2" stands for driver manufacturer ; Second "3" stands for LED manufactory ; Third "1" stands for different light Angle ; Four "X" stands for different mounting mean, could be " 1" = Ceiling, " 2" = Pendent  1601 : " 16" =2016 year ; "01"= series number
<b>Rated Inputs</b>	AC 100-277V 50/60Hz
<b>Rated Power</b>	150 W
<b>Nominal CCT</b>	4000K / 5700K
<b>LED Package, Array or Module</b>	Hongli Zhihui Group Co Ltd, HL-AS-PU2835DW-S1-08-PCT-HR3
<b>Date of Receipt Samples</b>	2017-12-15

## 1.2 Standards or methods

ANSI C78.377-2011:Specifications for the Chromaticity of Solid State Lighting Products

ANSI C82.77-2002: Harmonic Emission Limits-Related Power Quality Requirements for Lighting Equipment

CIE Publication No.13.3-1995:Method of Measuring and Specifying Color Rendering of Light Sources

IESNA LM-79-08 Approved Method: Electric & Photometric Measurement of Solid-state Lighting Products



### 1.3 Equipment list

Device	Manufacture	Model No.	Serial No.	Calibration due date
Goniophotometric System	SENSING	GMS-3000	N.A	2018-09-20
AC Power Source	ALL POWER	APW-110N	992257	2018-08-26
Total Luminous Flux Standard Lamp	SENSING	110V/100W	S13100234	2018-09-14
Digital Power Meter	YOKOGAWA	WT310	C2QM02030V	2018-08-28
Integral Sphere (2M)	SENSING	SD-20	N.A	2018-08-26
Digital Power Meter	YOKOGAWA	WT210	91L929742	2018-08-28
Optical Color and Electrical Measurement System	SENSING	SPR-3000	N.A	2018-08-26
Temperature/humidity/clock	VICTOR	VC230	57636	2018-09-12
Digital Anemometer	TECMAN	TD8901	026141	2018-09-12

Statement of Traceability: Shenzhen Belling Efficiency Testing Lab attests that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit (SI).



## 2 Test conducted and method

### 2.1 Ambient Condition

The ambient temperature in which measurements are being taken was maintained at  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , the air flow around the sample(s) being tested did not affect the performance.

### 2.2 Power Supply Characteristics

The AC power supply had a sinusoidal voltage wave shape at the prescribed frequency (60 Hz) such that the RMS summation of the harmonic components does not exceed 3 percent of the fundamental during operation of the test item.

The voltage of AC power supply (RMS voltage) applied to the device under test was regulated to within  $\pm 0.2$  percent under load.

### 2.3 Seasoning and Stabilization

No seasoning was performed in accordance with IESNA LM-79-08. And before the measurement, the sample was stabilized until the light output and power variations were less than 0.5% in 30 minutes intervals (3 readings, 15 minutes apart).

### 2.4 Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, spectrophotometer, and integrating sphere. The integrating sphere system is calibrated by standard light source before measurement. The system and standard light source has been calibrated regularly and traceable to the National Primary Standards.  $4\pi$  geometry was used during measurement. The product was operated in its intended orientation in application and was recorded in this report.

### 2.5 Goniophotometer System

The goniophotometer system is calibrated by standard light source before measurement. The standard light source has been calibrated regularly and traceable to the National Primary Standards.

Type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application and was recorded in this report. The method according to IESNA LM-79-08 following chapter.

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## 3 Test Result Summary

### 3.1 Integrating Sphere System

#### 3.1.1 Electrical data

Model Number	Input Voltage(V)	Frequency (Hz)
BLT-SWP03-40BA1-WH50 4000K	120.17	60
BLT-SWP03-40BA1-WH50 5700K	120.18	60

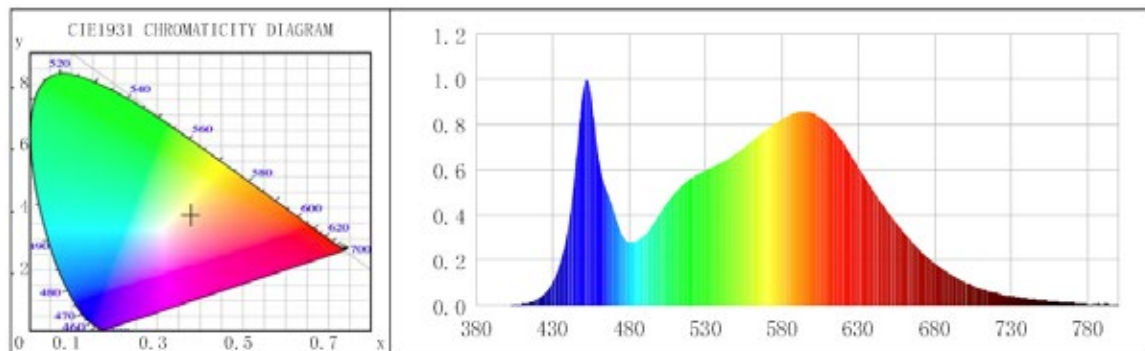
#### 3.1.3 Photometric data

Model Number	CCT (K)	CRI	R9
BLT-SWP03-40BA1-WH50 4000K	4081	82.6	3
BLT-SWP03-40BA1-WH50 5700K	5752	84.3	10

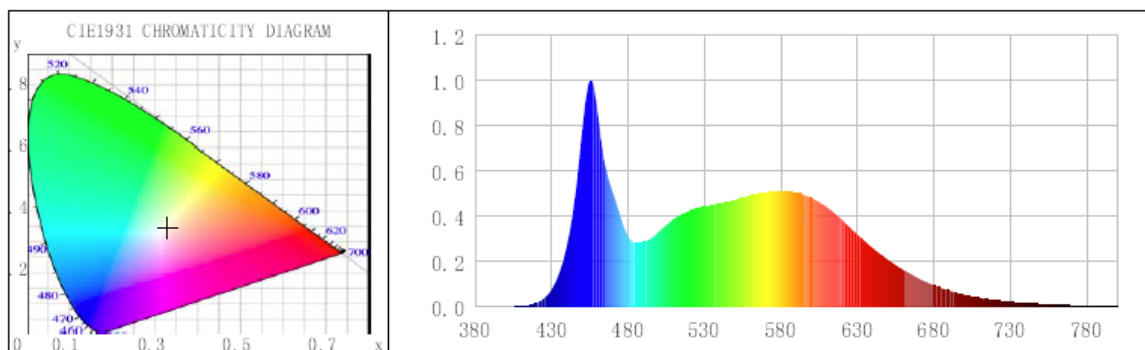
#### 3.1.3 Chromaticity Coordinate

Model Number	Duv	x, y	u', v'
BLT-SWP03-40BA1-WH50 4000K	0.0002	x=0.3771 y=0.3751	u(u')=0.2236 v'=0.5003
BLT-SWP03-40BA1-WH50 5700K	0.0019	x=0.3269 y=0.3399	u(u')=0.2035 v'=0.4761

#### Spectral Power Distribution & Chromaticity Diagram / Model SNC-CP-150W-231X-1601 4000K



#### Spectral Power Distribution & Chromaticity Diagram / Model SNC-CP-150W-231X-1601 5700K





## 3.2 Goniophotometer System

### 3.2.1 Electrical data

Model Number	Input Voltage(V)	Frequency (Hz)	Input Current (A)	Power (W)
BLT-SWP03-40BA1-WH50 4000K	120	60	1.2210	145.5
	277	60	0.5487	141.8
BLT-SWP03-40BA1-WH50 5700K	120	60	1.2273	146.1

Test Item	Model	Test Voltage (V)	Frequency (Hz)	Test Result
Power factor	BLT-SWP03-40BA1-WH50 4000K	120	60	0.993
		277	60	0.933
	BLT-SWP03-40BA1-WH50 5700K	120	60	0.992
		277	60	0.993
Total harmonic distortion, %	BLT-SWP03-40BA1-WH50 4000K	120	60	10.59
		277	60	14.72
	BLT-SWP03-40BA1-WH50 5700K	120	60	10.11
		277	60	14.61
Off state power (W)	--	--	--	--
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### 3.2.2 Photometric data

Model Number	Input Voltage(V)	Luminous Flux (lm)	Efficacy (lm/W)	Zonal Lumen in 0-40°(%lm)	Zonal Lumen in 40-70°(%lm)
BLT-SWP03-40BA1-WH50 4000K	120	14866.5	102.18	45.4	47
	277	14788.6	104.30	--	--
BLT-SWP03-40BA1-WH50 5700K	120	15611	106.85	--	--

### 3.2.3 Calculated Efficacy Data for family models (4500K and 5000K):

Model Number	Luminous Flux (lm)	Power (W)	Efficacy (lm/W)
BLT-SWP03-40BA1-WH50 4000K	14866.5	145.5	102.18
BLT-SWP03-40BA1-WH50 4500K	15052.6	145.65	103.35
BLT-SWP03-40BA1-WH50 5000K	15238.8	145.80	104.52
BLT-SWP03-40BA1-WH50 5700K	15611	146.1	106.85



**Zonal Lumen Tabulation**

**Zonal Lumen Summary**

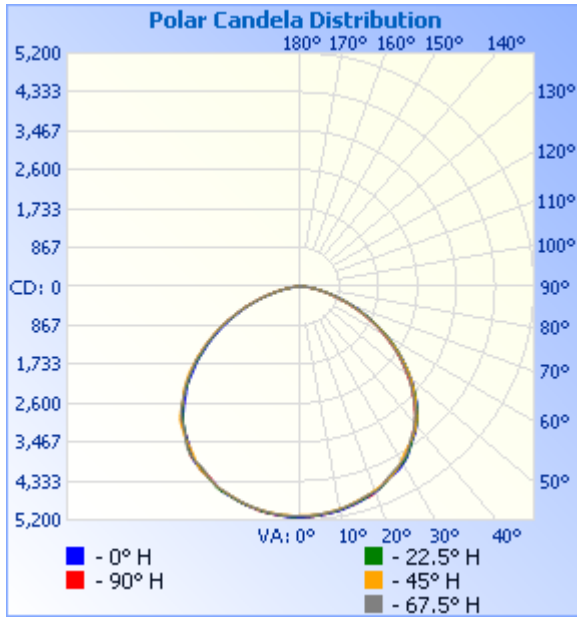
Zone	Lumens	% Lamp	% Luminaire
0-30	4,063.3	27.3%	27.3%
0-40	6,757.5	45.5%	45.5%
0-60	12,034.1	80.9%	81%
60-90	2,778.3	18.7%	18.7%
70-100	1,085.2	7.3%	7.3%
90-120	30.8	0.2%	0.2%
0-90	14,812.4	99.6%	99.6%
90-180	52.6	0.4%	0.4%
0-180	14,865.0	100%	100%

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	484.7	3.3%	90-100	19.2	0.1%
10-20	1,402.9	9.4%	100-110	6.1	0%
20-30	2,175.7	14.6%	110-120	5.4	0%
30-40	2,694.2	18.1%	120-130	5.1	0%
40-50	2,819.0	19.0%	130-140	4.9	0%
50-60	2,457.6	16.5%	140-150	4.6	0%
60-70	1,712.3	11.5%	150-160	3.8	0%
70-80	837.3	5.6%	160-170	2.5	0%
80-90	228.7	1.5%	170-180	0.9	0%



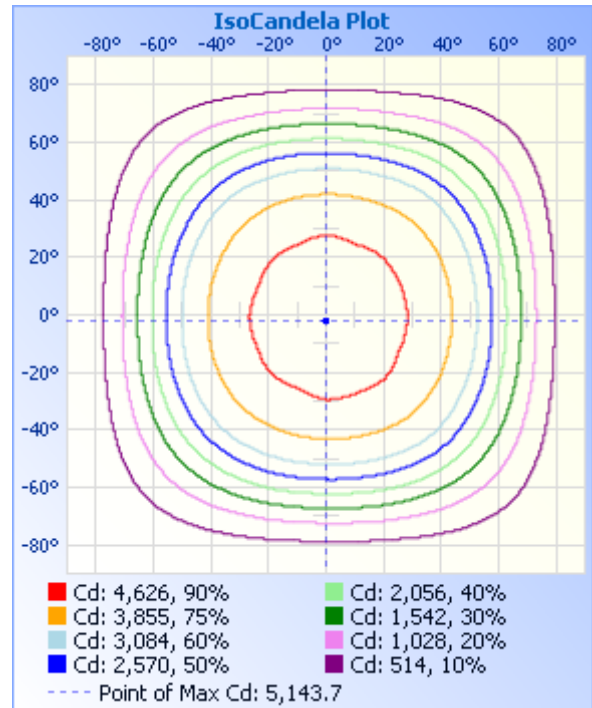
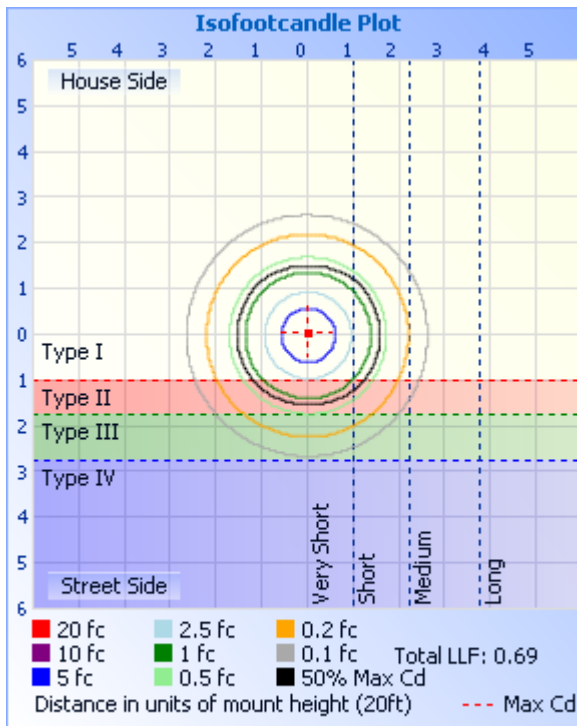
**Photometric Data**



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
17.0ft	17.8 fc	51.9 ft	51.6 ft
34.0ft	4.44 fc	103.7 ft	103.2 ft
51.0ft	1.98 fc	155.6 ft	154.8 ft
68.0ft	1.11 fc	207.4 ft	206.4 ft
85.0ft	0.71 fc	259.3 ft	258.0 ft
102.0ft	0.49 fc	311.1 ft	309.6 ft

■ Vert. Spread: 113.5°  
■ Horiz. Spread: 113.2°







### Luminous Intensity Distribution Data

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	5137	5117	5095	5103	5123	5103	5084	5092	5137	5117	5095	5103	5123	5103	5084	5092	5137
1	5133	5116	5097	5107	5130	5108	5088	5093	5141	5121	5101	5109	5126	5105	5082	5089	5133
2	5126	5116	5098	5106	5131	5108	5089	5096	5144	5127	5105	5108	5122	5102	5083	5092	5126
3	5125	5115	5090	5094	5121	5093	5081	5099	5136	5124	5097	5106	5122	5099	5078	5092	5125
4	5117	5106	5086	5091	5117	5092	5070	5091	5129	5114	5093	5108	5119	5102	5074	5085	5117
5	5110	5093	5085	5081	5101	5085	5067	5082	5119	5106	5093	5099	5112	5092	5073	5078	5110
6	5098	5085	5077	5074	5098	5082	5063	5073	5108	5097	5089	5096	5115	5090	5070	5068	5098
7	5087	5072	5061	5070	5089	5082	5054	5060	5101	5093	5080	5089	5102	5092	5060	5061	5087
8	5082	5064	5050	5058	5073	5063	5039	5054	5089	5089	5072	5071	5097	5080	5053	5053	5082
9	5073	5057	5038	5046	5066	5048	5029	5044	5081	5079	5064	5065	5089	5076	5043	5038	5073
10	5064	5041	5022	5033	5050	5038	5018	5038	5068	5069	5050	5050	5073	5059	5028	5027	5064
11	5047	5025	5011	5011	5035	5017	5000	5022	5054	5049	5042	5037	5068	5036	5014	5014	5047
12	5030	5005	4994	4996	5019	5002	4984	4998	5041	5031	5033	5030	5041	5025	5002	4996	5030
13	5012	4989	4971	4978	5005	4988	4971	4979	5025	5019	5017	5007	5021	4998	4984	4977	5012
14	4993	4975	4949	4961	4993	4969	4949	4958	5014	5005	5000	4992	5006	4980	4962	4959	4993
15	4976	4956	4931	4943	4963	4953	4931	4943	4997	4993	4983	4974	4987	4963	4947	4943	4976
16	4957	4941	4914	4910	4939	4925	4914	4930	4977	4976	4960	4954	4971	4946	4932	4933	4957
17	4933	4924	4891	4893	4919	4904	4891	4914	4953	4959	4932	4940	4954	4933	4907	4921	4933
18	4909	4897	4872	4874	4923	4893	4871	4894	4929	4933	4913	4918	4933	4919	4884	4896	4909
19	4889	4867	4854	4871	4910	4885	4856	4867	4916	4907	4900	4899	4897	4900	4864	4869	4889
20	4871	4846	4826	4861	4874	4875	4836	4845	4905	4892	4880	4866	4886	4870	4846	4848	4871
21	4846	4832	4799	4832	4833	4847	4802	4830	4881	4885	4856	4851	4873	4842	4824	4832	4846
22	4810	4809	4781	4803	4795	4810	4773	4814	4840	4868	4835	4844	4852	4830	4801	4805	4810
23	4769	4771	4755	4748	4754	4771	4746	4783	4803	4835	4811	4824	4811	4807	4771	4767	4769
24	4734	4728	4730	4703	4708	4728	4718	4742	4766	4790	4780	4784	4766	4780	4743	4727	4734
25	4700	4691	4698	4658	4682	4678	4701	4703	4736	4755	4740	4739	4721	4735	4720	4682	4700
26	4676	4656	4663	4621	4657	4638	4676	4659	4712	4714	4709	4697	4685	4688	4684	4646	4676
27	4654	4620	4629	4595	4634	4608	4648	4621	4691	4673	4697	4648	4653	4642	4647	4621	4654
28	4637	4595	4588	4562	4596	4585	4608	4593	4671	4634	4674	4603	4624	4599	4618	4596	4637
29	4603	4566	4537	4530	4575	4558	4560	4565	4635	4611	4639	4572	4611	4567	4580	4571	4603



30	4562	4542	4482	4502	4542	4521	4509	4538	4599	4584	4590	4552	4585	4535	4537	4539	4562
31	4522	4506	4422	4472	4493	4491	4451	4504	4569	4547	4534	4541	4558	4515	4495	4492	4522
32	4475	4458	4370	4433	4434	4462	4395	4460	4519	4510	4472	4512	4532	4495	4436	4456	4475
33	4415	4404	4324	4376	4367	4411	4337	4429	4459	4483	4418	4478	4495	4466	4387	4417	4415
34	4348	4350	4281	4314	4302	4349	4294	4382	4390	4432	4371	4447	4427	4431	4338	4363	4348
35	4285	4289	4250	4243	4254	4277	4257	4315	4324	4376	4320	4400	4353	4387	4290	4291	4285
36	4235	4222	4208	4178	4212	4208	4215	4242	4268	4309	4287	4331	4285	4317	4248	4231	4235
37	4190	4166	4163	4128	4149	4141	4166	4172	4220	4241	4252	4261	4216	4243	4204	4168	4190
38	4153	4111	4122	4082	4078	4095	4116	4105	4167	4169	4208	4179	4166	4165	4155	4121	4153
39	4079	4061	4063	4025	4028	4037	4072	4054	4105	4111	4155	4117	4136	4098	4115	4078	4079
40	4011	4013	3999	3938	3972	3964	4021	4004	4054	4052	4105	4057	4080	4032	4059	4023	4011
41	3947	3947	3936	3877	3897	3898	3961	3945	3994	3991	4063	4012	4028	3979	3987	3953	3947
42	3880	3875	3863	3817	3816	3843	3884	3876	3912	3930	4003	3957	3978	3935	3930	3880	3880
43	3805	3796	3776	3743	3728	3784	3795	3816	3830	3862	3928	3893	3893	3874	3873	3803	3805
44	3731	3722	3692	3654	3652	3705	3704	3745	3751	3792	3841	3830	3782	3813	3795	3718	3731
45	3654	3639	3615	3567	3566	3612	3623	3659	3670	3714	3747	3748	3691	3741	3711	3641	3654
46	3565	3554	3545	3482	3478	3521	3547	3567	3574	3634	3647	3651	3620	3639	3634	3573	3565
47	3462	3476	3457	3397	3405	3426	3481	3490	3493	3552	3572	3559	3553	3536	3548	3490	3462
48	3392	3390	3376	3310	3329	3333	3398	3401	3431	3456	3506	3476	3471	3442	3459	3392	3392
49	3316	3284	3300	3232	3225	3251	3299	3293	3349	3354	3425	3399	3365	3364	3365	3301	3316
50	3220	3191	3209	3153	3126	3182	3216	3212	3248	3270	3335	3309	3274	3285	3287	3212	3220
51	3126	3108	3109	3044	3038	3093	3125	3138	3133	3191	3253	3208	3185	3197	3194	3135	3126
52	3022	3026	3026	2947	2937	2982	3041	3048	3032	3095	3163	3106	3103	3094	3117	3042	3022
53	2919	2929	2925	2854	2845	2877	2944	2945	2948	2995	3064	3014	3003	3006	3033	2943	2919
54	2841	2823	2819	2762	2752	2773	2862	2828	2860	2897	2955	2922	2894	2904	2937	2826	2841
55	2750	2722	2716	2667	2658	2686	2753	2728	2754	2781	2855	2840	2800	2805	2823	2734	2750
56	2638	2641	2622	2564	2562	2586	2613	2638	2644	2675	2758	2725	2714	2704	2705	2642	2638
57	2536	2541	2526	2460	2460	2491	2517	2549	2541	2581	2640	2605	2615	2605	2609	2542	2536
58	2442	2454	2427	2363	2352	2391	2433	2440	2447	2486	2548	2515	2507	2502	2502	2440	2442
59	2346	2347	2316	2263	2248	2292	2337	2338	2347	2382	2441	2414	2401	2406	2404	2327	2346
60	2236	2240	2205	2151	2147	2187	2240	2237	2233	2282	2339	2318	2294	2314	2304	2225	2236
61	2131	2136	2112	2063	2047	2092	2109	2150	2129	2185	2230	2200	2207	2209	2189	2129	2131
62	2033	2029	2006	1961	1943	1975	2007	2039	2032	2088	2120	2098	2098	2096	2082	2029	2033



63	1933	1917	1901	1861	1843	1875	1915	1924	1926	1978	2017	2010	1985	1996	1981	1927	1933
64	1821	1814	1781	1751	1739	1765	1799	1827	1817	1874	1914	1909	1894	1899	1879	1825	1821
65	1724	1711	1685	1654	1636	1659	1693	1719	1722	1772	1793	1799	1799	1776	1770	1724	1724
66	1627	1617	1583	1552	1538	1558	1596	1611	1621	1661	1691	1692	1680	1689	1672	1627	1627
67	1536	1516	1485	1453	1436	1463	1487	1518	1509	1554	1588	1584	1585	1594	1572	1526	1536
68	1430	1416	1382	1354	1336	1364	1385	1415	1420	1463	1475	1487	1481	1479	1458	1427	1430
69	1341	1307	1278	1257	1242	1265	1289	1326	1313	1367	1375	1396	1386	1390	1364	1331	1341
70	1242	1214	1184	1159	1147	1166	1184	1225	1228	1261	1280	1288	1292	1286	1270	1241	1242
71	1148	1120	1093	1068	1054	1073	1093	1119	1118	1161	1180	1192	1190	1182	1162	1146	1148
72	1059	1030	999	974	961	980	1000	1030	1027	1067	1090	1101	1092	1084	1072	1046	1059
73	973	937	910	895	878	891	914	940	940	979	988	1008	1002	995	981	961	973
74	881	853	830	804	791	813	832	863	855	884	901	913	915	911	898	877	881
75	792	768	745	730	708	726	745	769	759	799	817	828	820	826	812	794	792
76	709	687	667	650	638	648	674	685	676	715	737	746	737	745	734	715	709
77	633	612	598	574	563	577	597	610	603	637	660	666	660	657	651	631	633
78	564	542	530	512	499	515	534	542	531	564	582	592	586	585	581	560	564
79	493	475	474	454	438	450	470	481	469	493	517	518	519	519	518	496	493
80	433	420	415	397	389	398	416	419	410	433	458	458	454	453	454	432	433
81	384	367	366	344	337	343	362	364	358	374	396	402	401	398	398	380	384
82	334	317	313	296	288	294	313	314	310	329	350	351	350	347	348	330	334
83	285	273	269	251	244	249	269	271	265	278	299	299	304	301	302	285	285
84	242	230	229	210	199	205	229	230	221	234	255	255	253	255	258	241	242
85	201	192	188	170	164	167	188	190	180	197	217	213	212	211	215	198	201
86	168	156	151	135	129	131	150	156	146	160	179	175	174	173	178	163	168
87	133	125	121	106	99	101	116	123	116	125	141	139	140	140	144	131	133
88	104	97	92	81	74	76	88	93	90	98	112	110	111	111	114	104	104
89	81	73	69	60	56	58	66	72	68	77	87	87	86	86	87	80	81
90	63	57	53	46	42	45	50	54	52	60	67	67	66	67	66	62	63
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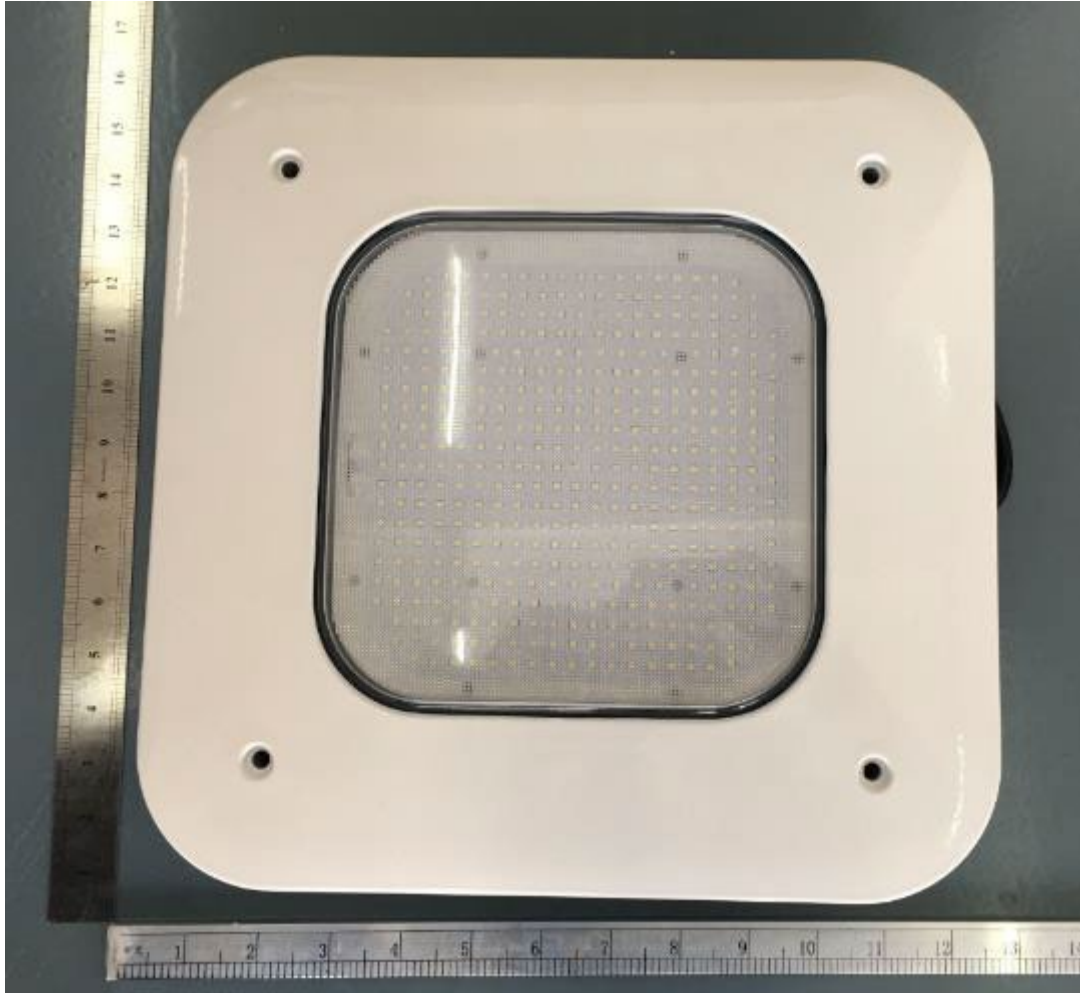
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**Photo Document**



\*\*\*\*End of test report\*\*\*\*