

Test Report for Luminous Intensity Distributions

Test Standard : CIE 70 (1987) 、 CIE 84 (1989)

Date of Receipt : 2018 / 11 / 15

Test Date : 2018 / 11 / 15 ~ 2018 / 11 / 21

1. Issue Date for test report : 2018 / 11 / 21
2. Report No : 18111503
3. Total pages : 21
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Approved Signatory:



Test Report

Information for test items

Applicant Company : CoolLED Corp

Applicant Address : 5F, -3, No.83, Sec.2, Gongdao 5th Rd., East Dist., Hsinchu
City 30070, Taiwan, R.O.C.

Manufacturer : CoolLED Corp.

Manufacturer's address : 5F, -3, No.83, Sec.2, Gongdao 5th Rd., East Dist.,
Hsinchu City 30070, Taiwan, R.O.C.

Trademark Mark : CoolLED

Product name : 14000lm LED Outdoor Floodlight

Product model : F2140C-201

Rated voltage(V) : 100~277

Rated frequency(Hz) : 50/60

Rated power(W) : 120

Trademark/model of LED chip : Bridgelux/BXEM 3030

Trademark/model of driver : MW/ELG-150-36A

Dimension for test item LxWxH (mm) : 402 × 325 × 60

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Test Content

Test Condition

Temperature (°C)	25.2
Humidity (% RH)	59.1
γ Axis measurement of angles	5°
C Axis measurement of angles	5°

Electrical Test

Test item	Test Result
Voltage(V)	220.0
Frequency(Hz)	60
Current (A)	0.548
Watt (W)	118.5
Power factor (PF)	0.983

Luminosity Test

Test item	Test Result
Total luminous flux of luminaire (lm)	13500.1
Initial luminaire efficiency (lm/W)	113.9
Central intensity (cd)	57510.5
Max intensity (cd)	58090.7
Angle for max intensity (°)	C : 95.0 γ : 0.0
Color temperature(K)	5900
Rendering Index	82.8
Beam angle (50%Imax)	C0_180 Left=10.8 Right=11.0
	C90_270 Left=9.8 Right=11.4
UGR	Horizontal :1.4 Vertical :0.9

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Diagram for luminous intensity distribution I

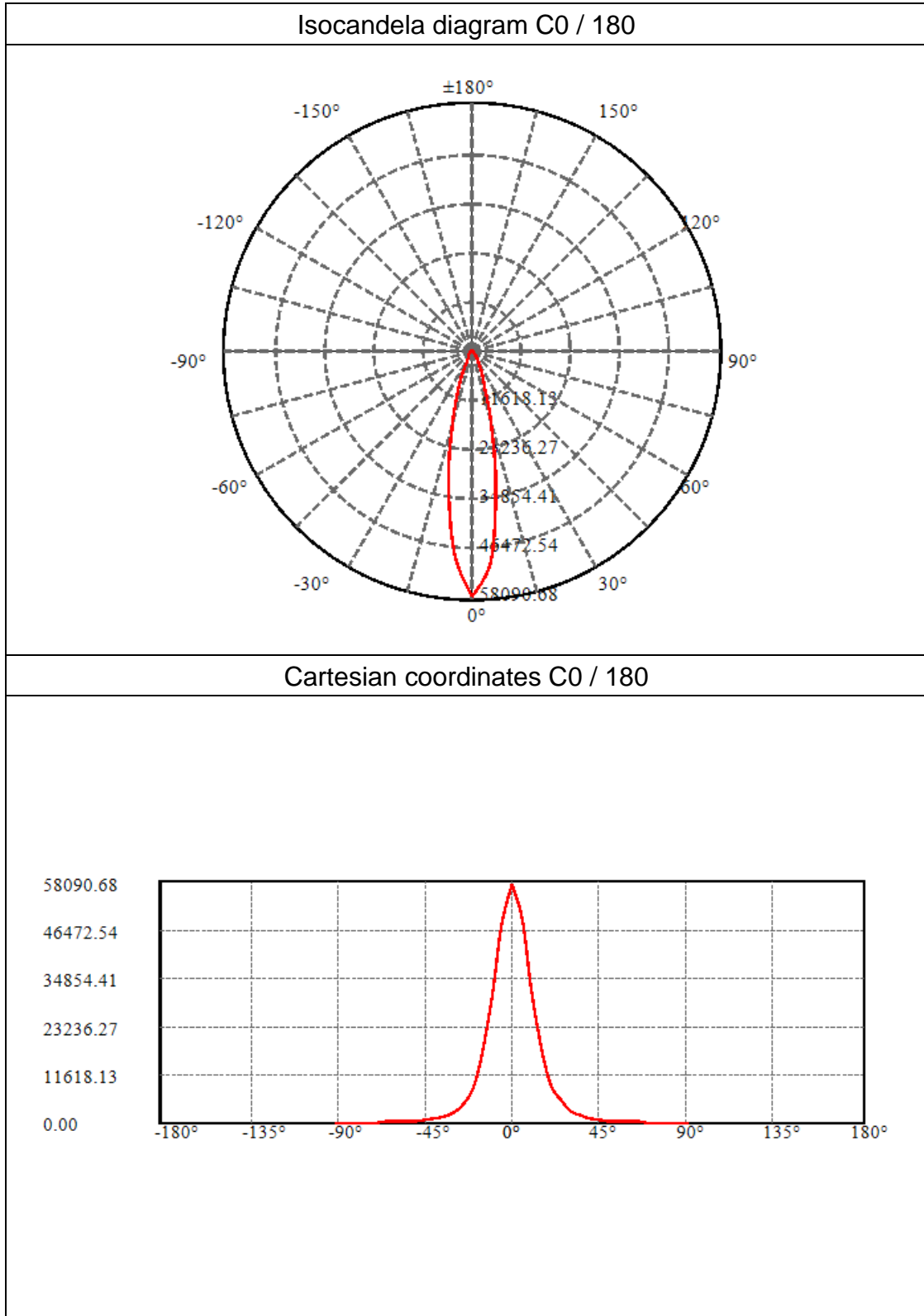


Diagram for luminous intensity distribution II

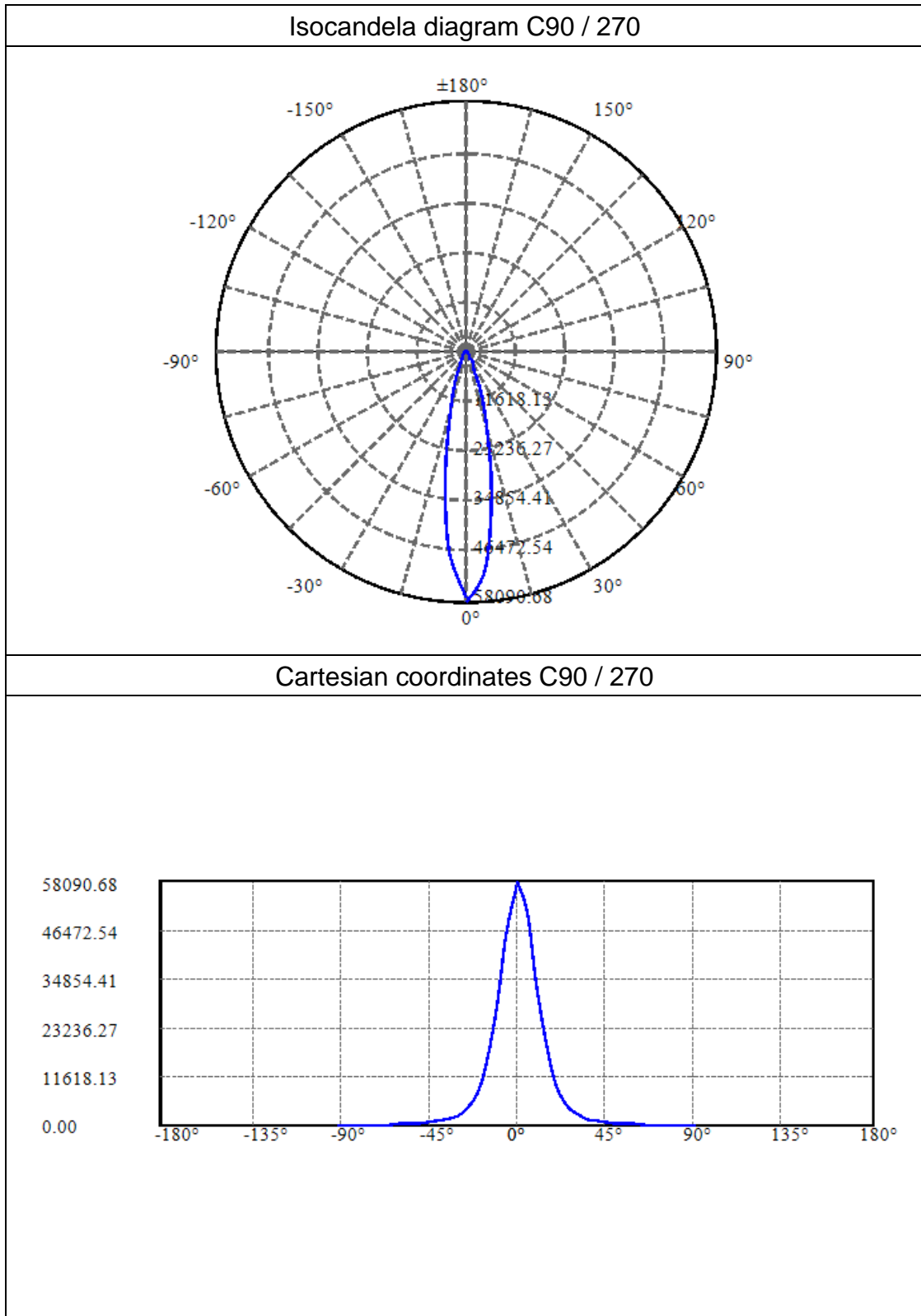
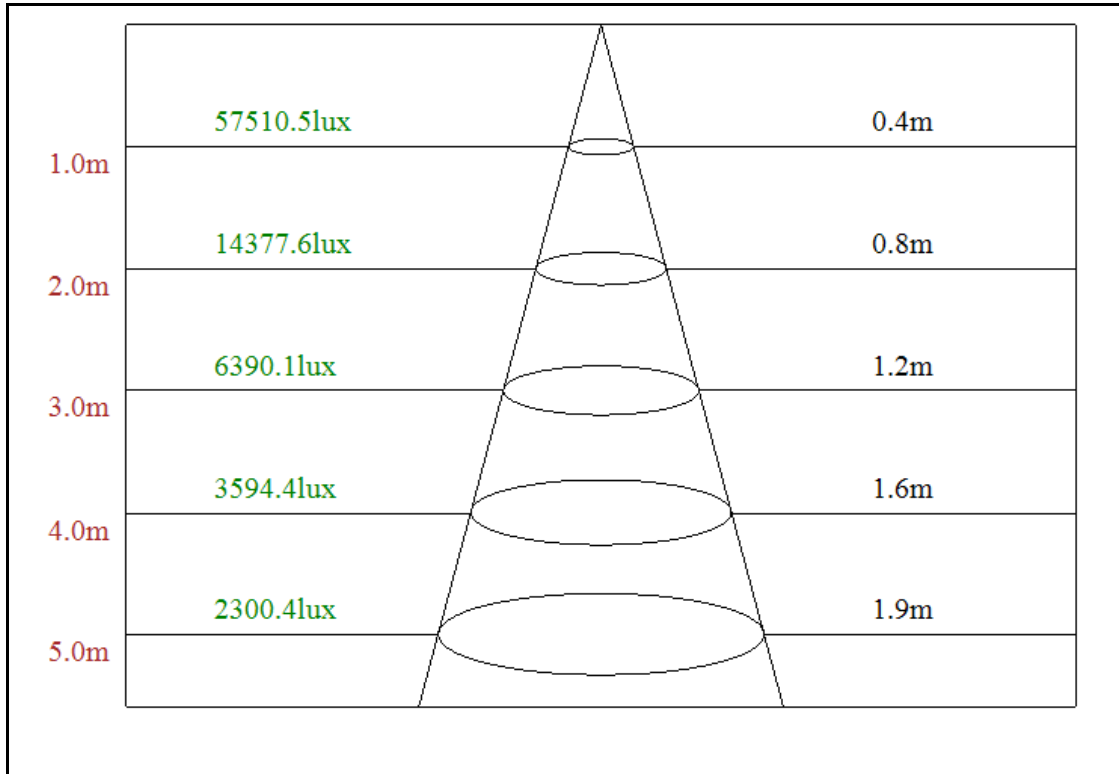
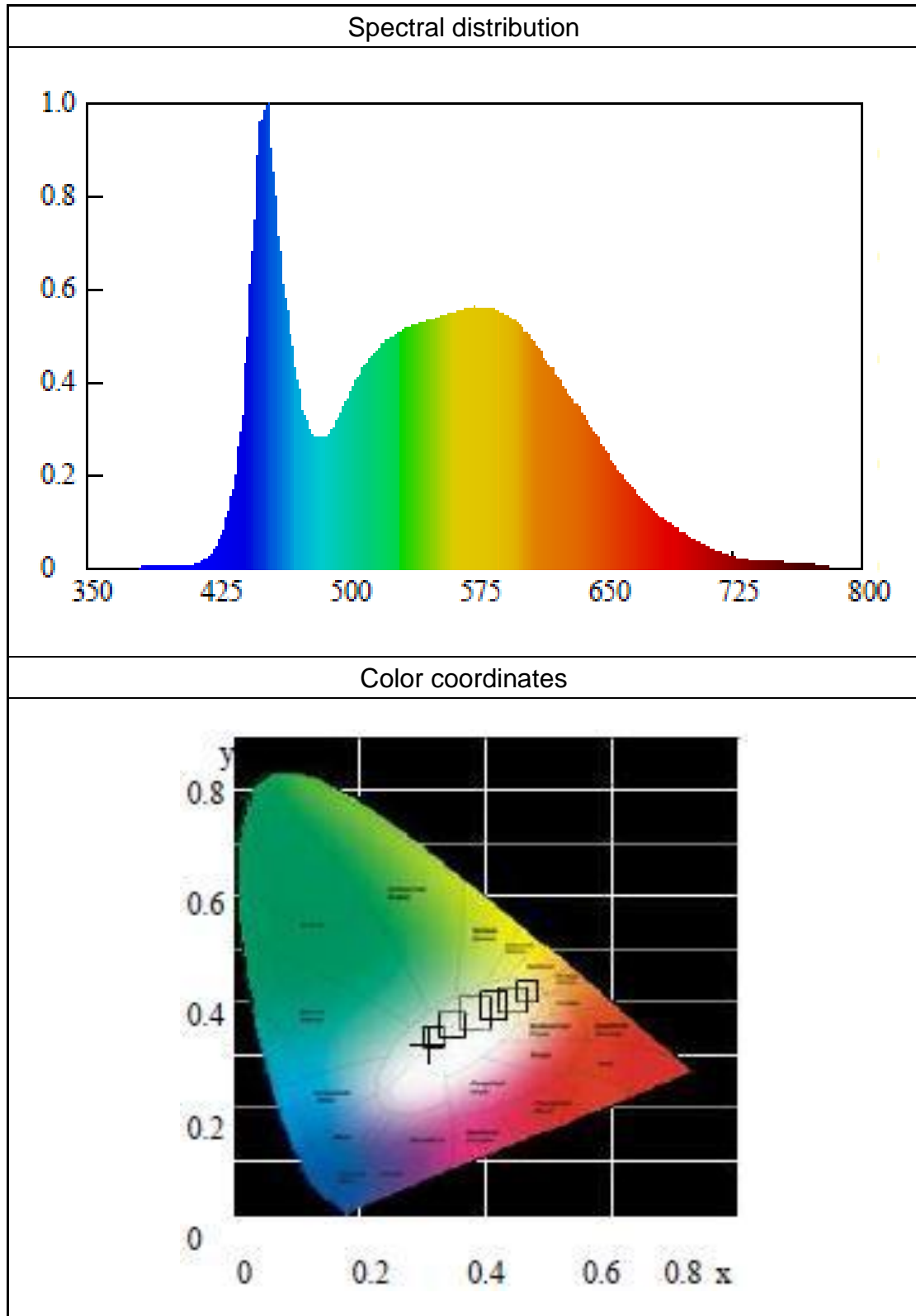


Diagram for illumination distance



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Test Results



Unified Glare Rating

參照 UGR 的照射評估											
ρ 天花板	70	70	50	50	30	70	70	50	50	30	
ρ 牆壁	50	30	50	30	30	50	30	50	30	30	
ρ 地板	20	20	20	20	20	20	20	20	20	20	
空間尺寸 X Y		橫向觀察方向 向燈軸					縱向觀察方向 向燈軸				
2H	2H	0.5	1.2	0.7	1.4	1.6	-0.0	0.7	0.2	0.9	1.1
	3H	0.8	1.5	1.1	1.7	2.0	0.3	0.9	0.6	1.2	1.4
	4H	0.9	1.5	1.2	1.8	2.0	0.3	0.9	0.6	1.2	1.4
	6H	0.9	1.5	1.2	1.7	2.0	0.3	0.8	0.6	1.1	1.4
	8H	0.9	1.4	1.2	1.7	2.0	0.2	0.8	0.6	1.1	1.4
	12H	0.8	1.3	1.2	1.6	1.9	0.2	0.7	0.5	1.0	1.3
4H	2H	0.6	1.2	0.9	1.5	1.7	0.2	0.8	0.5	1.0	1.3
	3H	1.1	1.6	1.4	1.9	2.2	0.5	1.1	0.9	1.4	1.7
	4H	1.2	1.6	1.6	2.0	2.3	0.6	1.1	1.0	1.4	1.7
	6H	1.2	1.6	1.6	1.9	2.3	0.6	0.9	1.0	1.3	1.7
	8H	1.2	1.5	1.6	1.9	2.3	0.5	0.9	1.0	1.3	1.7
	12H	1.1	1.4	1.6	1.8	2.2	0.5	0.8	0.9	1.2	1.6
8H	4H	1.2	1.5	1.6	1.9	2.3	0.6	0.9	1.0	1.3	1.7
	6H	1.2	1.4	1.6	1.8	2.3	0.6	0.8	1.0	1.2	1.7
	8H	1.1	1.3	1.6	1.8	2.3	0.5	0.7	1.0	1.2	1.6
	12H	1.1	1.3	1.6	1.7	2.2	0.5	0.6	1.0	1.1	1.6
12H	4H	1.1	1.4	1.6	1.8	2.2	0.6	0.8	1.0	1.2	1.7
	6H	1.1	1.3	1.6	1.8	2.2	0.5	0.7	1.0	1.2	1.6
	8H	1.1	1.3	1.6	1.7	2.2	0.5	0.7	1.0	1.1	1.6
對應照射距離，改變觀察者位置 S											
S = 1.0H	+1.7 / -1.5					+1.7 / -1.5					
S = 1.5H	+3.5 / -2.5					+3.4 / -2.5					
S = 2.0H	+5.2 / -3.5					+5.1 / -3.8					
標準表格	BK01					BK01					
更正加數	-17.1					-17.6					
更正的閃光指數，參照 14115lm 總光通量											

Photo for test items

Photo of product

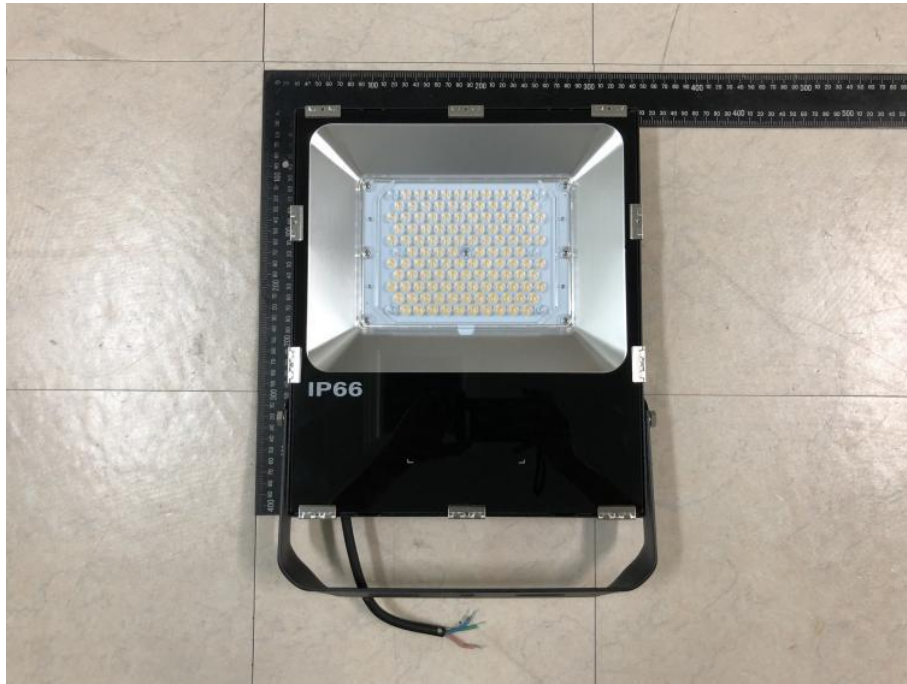
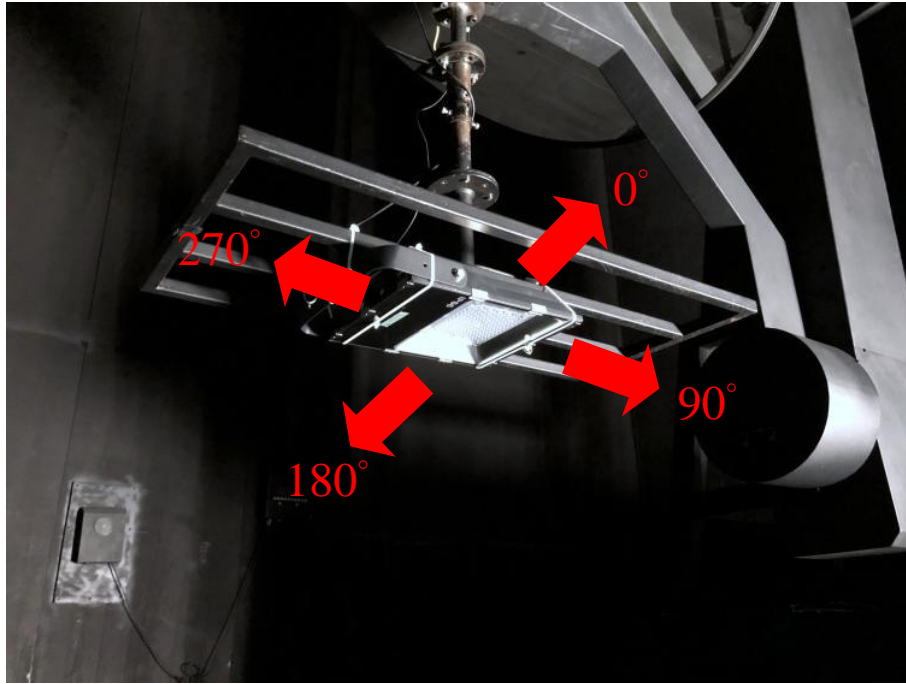


Photo of product



Photo for test items

Direction for luminaire position in goniophotometer



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Data for luminous intensity (1)

Intensity data(cd)

$\gamma/C(^{\circ})$	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0
0	57510.48	57510.48	57531.7	57595.39	57602.46	57680.29	57729.82	57729.82
5	48871.17	49125.89	49232.03	49394.76	49529.2	49663.63	49762.7	49974.96
10	31719.92	31889.73	32017.09	32137.37	32278.89	32342.57	32462.85	32590.21
15	17349.37	17448.43	17618.24	17766.83	17766.83	17802.21	17901.27	18000.33
20	9162.901	9254.885	9339.792	9438.851	9495.455	9495.455	9559.136	9622.816
25	5235.944	5235.944	5285.473	5363.305	5306.7	5158.112	5094.432	5143.961
30	3031.187	3059.489	3077.886	3070.811	3063.027	3095.575	3118.925	3103.358
35	1797.202	1804.986	1797.91	1798.618	1821.259	1786.589	1767.485	1759.702
40	1143.417	1146.955	1182.333	1194.361	1162.521	1123.605	1121.483	1146.247
45	730.2019	738.6927	734.4473	728.7868	745.0607	786.0991	784.684	756.3817
50	522.8868	533.5002	531.3776	534.9153	535.6229	533.5002	532.0851	532.7927
55	372.1766	370.7614	376.4219	380.2427	379.9597	381.4456	383.1437	381.3041
60	264.3444	266.7501	265.9011	269.1558	274.8871	282.4579	282.3164	275.0993
65	182.1967	181.7014	184.1779	184.6732	188.9893	190.9704	189.6261	184.1779
70	109.3888	111.0162	112.9266	114.7662	119.7899	120.922	118.304	116.9597
75	53.98683	55.11892	56.18027	57.17085	58.72748	60.42562	58.93975	56.6048
80	14.64649	15.42481	15.49556	15.84934	16.13237	16.48615	16.41539	15.84934
85	1.556632	1.556632	1.556632	1.627388	1.698144	1.7689	1.839656	1.7689
90	0.424536	0.424536	0.566048	0.636804	0.636804	0.636804	0.778316	0.849072

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Data for luminous intensity (2)

Intensity data(cd)		Page: 2 Total:10							
$\gamma/C(^{\circ})$	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	
0	57779.35	57807.65	57843.03	57899.64	57984.54	57963.31	57991.62	58019.92	
5	50123.55	50307.52	50434.88	50569.31	50668.37	50753.28	50795.73	50767.43	
10	32767.1	32915.69	33085.5	33219.94	33354.38	33446.36	33510.04	33502.96	
15	18191.37	18262.12	18283.35	18262.12	18297.5	18347.03	18396.56	18417.79	
20	9629.892	9594.514	9544.984	9495.455	9424.699	9410.548	9445.926	9559.136	
25	5193.491	5264.247	5193.491	5143.961	5115.659	5101.508	5108.583	5044.903	
30	3014.206	2957.601	2929.298	2903.826	2914.44	2883.307	2842.269	2796.985	
35	1734.229	1691.068	1679.747	1676.21	1659.936	1631.633	1610.407	1622.435	
40	1165.351	1143.417	1107.331	1095.303	1086.812	1069.831	1080.444	1086.812	
45	721.7112	718.1734	716.0507	710.3902	696.2391	701.192	696.2391	687.0408	
50	532.0851	539.1607	537.038	532.0851	534.9153	544.1136	532.0851	518.6415	
55	377.554	379.8889	374.37	375.1483	375.4313	363.332	357.6716	358.7329	
60	264.8397	262.2217	256.7735	256.2075	255.0754	254.3678	250.1225	248.0705	
65	179.0834	176.8192	173.0692	171.4418	171.5833	170.1682	167.9747	162.7388	
70	111.8652	108.2567	102.95	101.0396	99.27067	97.21874	95.59136	93.53944	
75	54.41136	52.21793	50.87357	48.75088	47.54803	45.92065	44.29326	42.80738	
80	14.788	14.29271	13.86818	13.30213	12.45306	11.46247	10.54264	9.976596	
85	1.7689	1.839656	1.839656	1.7689	1.839656	1.910412	1.981168	1.839656	
90	0.849072	0.849072	0.990584	0.849072	0.990584	1.06134	1.06134	0.990584	

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Data for luminous intensity (3)

Intensity data(cd) Page: 3 Total:10

$\gamma/C(^{\circ})$	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0
0	58012.84	58026.98	58069.45	58090.68	58055.3	57970.39	57956.24	57892.56
5	50689.6	50654.22	50632.99	50526.86	50456.1	50364.12	50314.59	50265.06
10	33481.74	33375.61	33255.32	33262.39	33262.39	33290.7	33290.7	33290.7
15	18375.33	18297.5	18240.9	18233.82	18283.35	18311.65	18269.2	18177.22
20	9580.362	9495.455	9389.321	9382.246	9460.077	9396.396	9283.188	9191.204
25	4981.222	4846.786	4761.879	4818.483	4839.71	4818.483	4790.181	4811.408
30	2783.541	2775.758	2763.729	2734.012	2745.333	2738.257	2745.333	2702.172
35	1649.322	1619.605	1601.208	1618.897	1594.133	1541.066	1535.405	1543.188
40	1062.048	1018.179	992.7067	1021.717	1054.264	1059.217	1023.839	1045.774
45	696.2391	711.0978	709.6827	697.6542	685.6256	684.9181	686.3332	683.503
50	517.2264	525.0095	520.7642	518.6415	512.2734	521.4717	534.2078	534.2078
55	357.9546	359.1575	356.0442	358.8036	362.2707	363.6151	369.6294	376.988
60	249.981	257.1273	257.1273	254.5093	251.6083	253.2357	256.915	260.0991
65	163.6586	165.7813	164.8615	164.0832	164.1539	167.4087	171.6541	173.6352
70	95.09606	96.36967	95.16682	95.80362	94.95456	95.73286	98.28008	101.0396
75	43.51494	43.79797	44.08099	43.72721	43.23191	44.36401	46.55745	48.75088
80	9.976596	9.976596	9.976596	9.90584	9.90584	10.11811	10.89642	11.88701
85	1.7689	1.981168	1.839656	1.839656	1.910412	1.981168	1.839656	1.910412
90	1.06134	1.06134	0.849072	1.06134	0.990584	0.919828	0.990584	0.919828

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Data for luminous intensity (4)

Intensity data(cd)

Page: 4 Total:10

$\gamma/C(^{\circ})$	120.0	125.0	130.0	135.0	140.0	145.0	150.0	155.0
0	57885.48	57786.42	57722.75	57694.44	57616.61	57567.08	57616.61	57552.93
5	50116.48	50003.27	49805.15	49599.95	49352.31	49033.91	48842.87	48651.83
10	33304.85	33184.57	33000.6	32760.03	32547.76	32342.57	32130.3	31946.34
15	18056.93	18000.33	17943.72	17851.74	17681.92	17597.02	17490.88	17349.37
20	9099.222	9127.523	9162.901	9169.978	9134.6	8971.861	8865.727	8851.576
25	4768.954	4705.274	4669.896	4676.972	4669.896	4577.913	4549.611	4563.762
30	2708.54	2692.973	2702.172	2684.483	2641.322	2582.594	2558.537	2588.254
35	1529.745	1541.066	1514.178	1533.99	1578.566	1592.718	1588.472	1573.613
40	1052.849	1038.698	1030.915	1036.575	1018.179	989.8765	979.263	996.2444
45	682.0878	693.4088	697.6542	697.6542	701.192	696.9466	695.5315	693.4088
50	525.0095	525.717	524.3019	520.7642	529.2549	529.9625	527.8398	521.4717
55	383.2145	383.0022	383.4268	381.5164	387.3183	387.0353	385.8325	385.9032
60	263.0708	263.7076	265.1935	267.8115	277.6465	281.2551	282.8825	278.5664
65	173.706	174.5551	175.5456	179.791	189.6261	193.2346	191.7488	189.2015
70	103.0207	104.7189	109.3888	111.653	119.0824	121.4173	123.257	120.4975
75	49.88298	51.36885	52.71322	54.8359	55.68497	58.3737	60.07184	58.79823
80	13.08986	13.65591	13.93893	14.50498	15.49556	16.06161	16.48615	15.99086
85	1.910412	1.910412	1.839656	1.7689	1.7689	1.7689	1.7689	1.627388
90	0.849072	0.849072	0.778316	0.636804	0.70756	0.70756	0.636804	0.566048

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Data for luminous intensity (5)

Intensity data(cd)		Page: 5 Total:10						
$\gamma/C(^{\circ})$	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0	57453.87	57460.95	57418.5	57397.27	57439.72	57333.59	57269.9	57227.45
5	48432.48	48241.44	48050.4	47809.83	47512.66	47293.31	46981.98	46769.71
10	31726.99	31557.18	31380.29	31182.17	30927.45	30587.82	30340.17	30050.07
15	17264.46	17101.72	16889.46	16698.42	16472	16330.48	16153.59	15969.63
20	8844.5	8766.669	8575.627	8434.115	8363.359	8306.754	8257.226	8200.62
25	4535.459	4471.779	4436.401	4450.552	4401.023	4316.116	4224.133	4202.906
30	2637.784	2614.434	2591.085	2530.942	2504.762	2506.177	2491.319	2438.252
35	1521.254	1466.064	1469.602	1445.545	1439.177	1430.686	1397.431	1435.639
40	1004.735	1002.613	989.8765	1005.443	998.3672	972.1874	964.4043	963.6967
45	679.2576	669.3517	660.1535	649.54	646.0023	651.6628	653.7855	653.0779
50	508.0281	505.9054	501.66	505.9054	503.0752	497.4147	495.9995	495.292
55	381.5871	380.738	377.2002	374.0162	373.3794	373.1671	373.3794	372.6011
60	269.3681	263	263.7076	261.9387	261.3727	259.7453	256.7735	261.0896
65	183.8241	180.7108	180.0033	181.5599	180.4278	177.5268	177.3853	179.9325
70	115.8276	110.6624	108.2567	107.1246	106.2048	106.4878	107.8321	111.1577
75	56.25102	54.34061	53.27927	52.4302	52.07642	52.07642	52.07642	54.05758
80	15.2833	14.57574	14.36347	13.93893	13.86818	13.58515	13.5144	13.72666
85	1.556632	1.556632	1.556632	1.41512	1.41512	1.627388	1.698144	1.698144
90	0.636804	0.495292	0.495292	0.424536	0.495292	0.495292	0.495292	0.566048

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Data for luminous intensity (6)

Page: 6 Total:10

Intensity data(cd)	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0
$\gamma/C(^{\circ})$	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0
0	57100.09	57093.01	57036.41	56965.64	56916.12	56894.9	56901.97	56852.45
5	46507.92	46309.8	46033.85	45856.96	45736.68	45602.24	45517.34	45404.13
10	29745.82	29420.35	29271.76	29101.94	28995.81	28910.9	28826	28769.39
15	15714.91	15552.17	15325.75	15184.24	15078.1	14979.04	14879.99	14837.53
20	8044.957	7938.823	7853.916	7811.462	7726.555	7556.741	7457.682	7379.851
25	4153.377	4033.092	3983.563	3962.336	3941.109	3912.807	3926.958	3926.958
30	2324.335	2280.466	2277.636	2288.249	2305.23	2296.032	2270.56	2260.654
35	1466.772	1453.328	1424.318	1409.459	1362.053	1340.119	1347.194	1345.779
40	941.7623	919.8279	909.2146	938.9321	960.8665	942.4699	939.6396	953.0833
45	664.3989	666.5215	656.6157	656.6157	648.8325	645.2947	641.7569	629.0208
50	508.7356	510.8583	505.1978	498.8298	493.1693	496.7071	497.4147	498.1222
55	376.705	377.3417	375.6436	374.4408	363.5443	363.1906	360.2895	355.8319
60	269.5804	275.0286	272.8351	265.1935	252.4574	247.7875	247.7875	247.929
65	185.3807	190.6167	186.0175	179.7202	173.8475	169.2484	166.9842	165.286
70	117.6672	118.7993	117.1012	113.7756	108.2567	101.7471	98.35084	96.22816
75	56.10951	56.03875	53.63305	51.72264	48.18483	47.05274	45.9914	44.71779
80	13.93893	14.00969	13.37288	12.66532	11.60398	11.10869	10.75491	10.33038
85	1.839656	1.839656	1.910412	2.051924	2.12268	2.12268	2.264192	2.193436
90	0.566048	0.495292	0.566048	0.495292	0.566048	0.424536	0.35378	0.424536

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Data for luminous intensity (7)

Intensity data(cd)									Page: 7 Total:10
$\gamma/C(^{\circ})$	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	
0	56831.22	56909.05	56972.73	56972.73	56993.96	57071.79	57085.94	57008.11	
5	45354.59	45290.92	45276.77	45276.77	45361.67	45382.9	45545.64	45665.92	
10	28656.18	28542.97	28422.68	28373.15	28330.7	28337.78	28408.54	28585.43	
15	14809.23	14766.78	14724.32	14625.27	14653.57	14731.4	14795.08	14879.99	
20	7351.549	7372.775	7457.682	7493.061	7471.834	7450.606	7535.514	7662.875	
25	3919.882	3898.656	3870.353	3842.051	3827.899	3799.597	3870.353	3962.336	
30	2250.041	2269.145	2254.286	2254.286	2254.994	2269.853	2286.126	2276.22	
35	1352.855	1343.656	1349.317	1391.063	1395.308	1382.572	1401.676	1422.903	
40	948.838	929.7338	957.3287	960.1589	921.2432	898.6012	925.4885	952.3757	
45	624.7755	626.1906	624.0679	629.7284	645.2947	655.2006	664.3989	649.54	
50	502.3676	490.3391	478.3105	467.6972	469.8198	472.6501	479.7256	475.4803	
55	350.8082	343.5911	340.1241	340.6194	341.6807	338.6382	343.9449	342.8836	
60	245.0988	240.4996	235.0514	232.575	238.5892	240.6411	241.6317	240.2166	
65	161.2529	156.3708	152.7622	150.215	152.1254	153.0452	154.6726	153.9651	
70	92.97339	90.99222	88.51575	88.09122	87.94971	87.24215	87.17139	88.23273	
75	43.01965	41.60453	38.84505	37.92521	37.92521	37.92521	37.7837	37.92521	
80	9.693572	8.561476	7.42938	7.004844	6.792576	6.580308	6.580308	6.651064	
85	2.193436	2.264192	2.193436	2.334948	2.264192	2.12268	2.193436	2.264192	
90	0.283024	0.35378	0.212268	0.283024	0.212268	0.283024	0.283024	0.283024	

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Data for luminous intensity (8)

Intensity data(cd)								Page: 8 Total:10
$\gamma/C(^{\circ})$	280.0	285.0	290.0	295.0	300.0	305.0	310.0	315.0
0	57008.11	57008.11	56965.64	56986.88	56986.88	56972.73	57029.34	57043.49
5	45821.59	45970.18	46083.38	46231.97	46309.8	46444.24	46536.22	46621.13
10	28712.79	28769.39	28882.6	28974.58	29123.17	29229.3	29363.74	29547.71
15	15028.57	15120.56	15184.24	15311.6	15481.41	15665.38	15835.19	15920.1
20	7684.102	7677.026	7677.026	7776.084	7931.748	8037.881	8186.469	8398.737
25	4047.243	4125.075	4181.68	4231.209	4301.965	4372.721	4500.082	4563.762
30	2300.985	2327.872	2374.571	2419.147	2421.27	2447.45	2502.64	2600.991
35	1404.507	1385.402	1414.412	1444.13	1456.159	1468.187	1478.8	1521.254
40	960.8665	965.1118	946.7153	967.2345	979.263	989.8765	1016.764	1034.453
45	634.6813	641.0494	646.7098	646.0023	658.0308	667.2291	671.4744	680.6727
50	476.1879	488.2164	503.0752	503.7827	503.7827	501.66	503.0752	502.3676
55	340.3364	337.4354	342.2468	348.3318	348.4025	351.5158	358.6622	365.101
60	234.2024	236.3958	240.7827	244.462	245.6648	246.3016	246.8677	251.1838
65	151.4178	154.5311	156.4415	162.102	165.3568	166.3474	168.7531	172.5739
70	87.66668	89.86012	91.34599	93.68095	96.44043	97.85555	100.8273	107.3369
75	37.99597	39.26958	41.60453	43.5857	45.3546	46.55745	46.98198	49.31693
80	6.934088	7.570892	8.632232	9.55206	10.40113	11.03794	11.32096	11.7455
85	2.193436	2.264192	2.264192	2.12268	2.12268	2.193436	2.193436	2.051924
90	0.35378	0.35378	0.35378	0.35378	0.424536	0.495292	0.424536	0.566048

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Data for luminous intensity (9)

Page: 9 Total:10

Intensity data(cd)								
$\gamma/C(^{\circ})$	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0
0	57071.79	57156.7	57234.53	57298.21	57354.81	57269.9	57312.36	57397.27
5	46826.32	47059.82	47406.52	47590.49	47880.58	48092.86	48404.18	48665.98
10	29774.13	30000.54	30205.73	30474.61	30778.86	31068.96	31302.46	31557.18
15	15955.48	16068.69	16217.28	16486.15	16698.42	16875.31	17038.04	17158.33
20	8504.871	8596.854	8717.139	8830.349	8901.104	8929.407	9014.314	9070.919
25	4535.459	4549.611	4627.442	4889.239	5073.205	5101.508	5087.356	5172.264
30	2699.342	2750.993	2799.107	2816.796	2852.882	2918.685	2963.969	3011.375
35	1570.783	1571.491	1633.756	1693.191	1688.238	1698.852	1758.286	1792.25
40	1036.575	1033.038	1037.283	1085.397	1122.19	1144.125	1129.973	1136.341
45	699.0693	724.5414	741.5229	725.249	708.9751	716.7583	725.9566	726.6641
50	504.4903	510.1508	514.3961	513.6885	516.5188	520.0566	527.8398	521.4717
55	365.101	369.3463	370.7614	369.3463	369.3463	369.3463	366.5161	370.7614
60	262.5755	269.1558	273.6135	268.236	263.4953	259.3915	261.7264	265.1935
65	177.1023	182.3382	187.8572	188.0694	181.4184	180.2155	178.8004	180.5693
70	111.7945	114.1294	117.455	118.0918	112.8558	110.7331	109.035	108.1152
75	52.57171	54.41136	57.45387	58.01992	56.18027	54.1991	53.49154	53.35003
80	12.87759	13.65591	14.22196	14.50498	14.64649	14.50498	14.29271	14.43422
85	1.981168	1.839656	1.839656	1.839656	1.7689	1.627388	1.627388	1.556632
90	0.566048	0.566048	0.566048	0.636804	0.495292	0.424536	0.566048	0.424536

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Data for luminous intensity (10)

Intensity data(cd)

$\gamma/C(^{\circ})$	360.0
0	57510.48
5	48871.17
10	31719.92
15	17349.37
20	9162.901
25	5235.944
30	3031.187
35	1797.202
40	1143.417
45	730.2019
50	522.8868
55	372.1766
60	264.3444
65	182.1967
70	109.3888
75	53.98683
80	14.64649
85	1.556632
90	0.424536

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Equipment list and testing engineer for test

Item	Equipment No	Equipment	Manufacturer / Type / Series No
1	107A-01	Magnetic angle locator	ACUANGLE A-300
2	99E-06	Digital power meter	YOKOGAWA WT210 (91JB34563)
3	99E-08	Digital power meter	YOKOGAWA WT210 (91K539455)
4	99E-12	AC Power Source	APC AFC-500W
5	99E-17	AC Power Source	APC AFC-5kW
6	99O-01	Goniophotometer System	Sensing GMS-2000
7	99O-02	Spectroradiometer (2π)	Sensing SPR-3000
8	99O-23	Thermostatic Stabilized Photometric Sphere (2π)	Sensing
9	104O-29	Photometric standard lamp 110V/300W	Sensing (S11030003)
10	103T-13	Temperature and humidity records	TANDD(TR-72UI/F80417A2)
11	103T-14	Temperature and humidity records	TANDD(TR-72UI/F8043A00)
Testing engineers:Chung Tse Liu			

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