

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 : 18111504
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-401

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)	13426.1
Initial luminaire efficiency (lm/W)	113.3
Central intensity (cd)	15870.6
Max intensity (cd)	16252.7
Angle for max intensity (°)	C : 325.0 γ : 5.0
Color temperature(K)	5922
Rendering Index	82.5
Beam angle (50%Imax)	C0_180 Left=19.9 Right=24.8
	C90_270 Left=25.2 Right=17.7
UGR	Horizontal :8.3 Vertical :6.8

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Diagram for luminous intensity distribution I

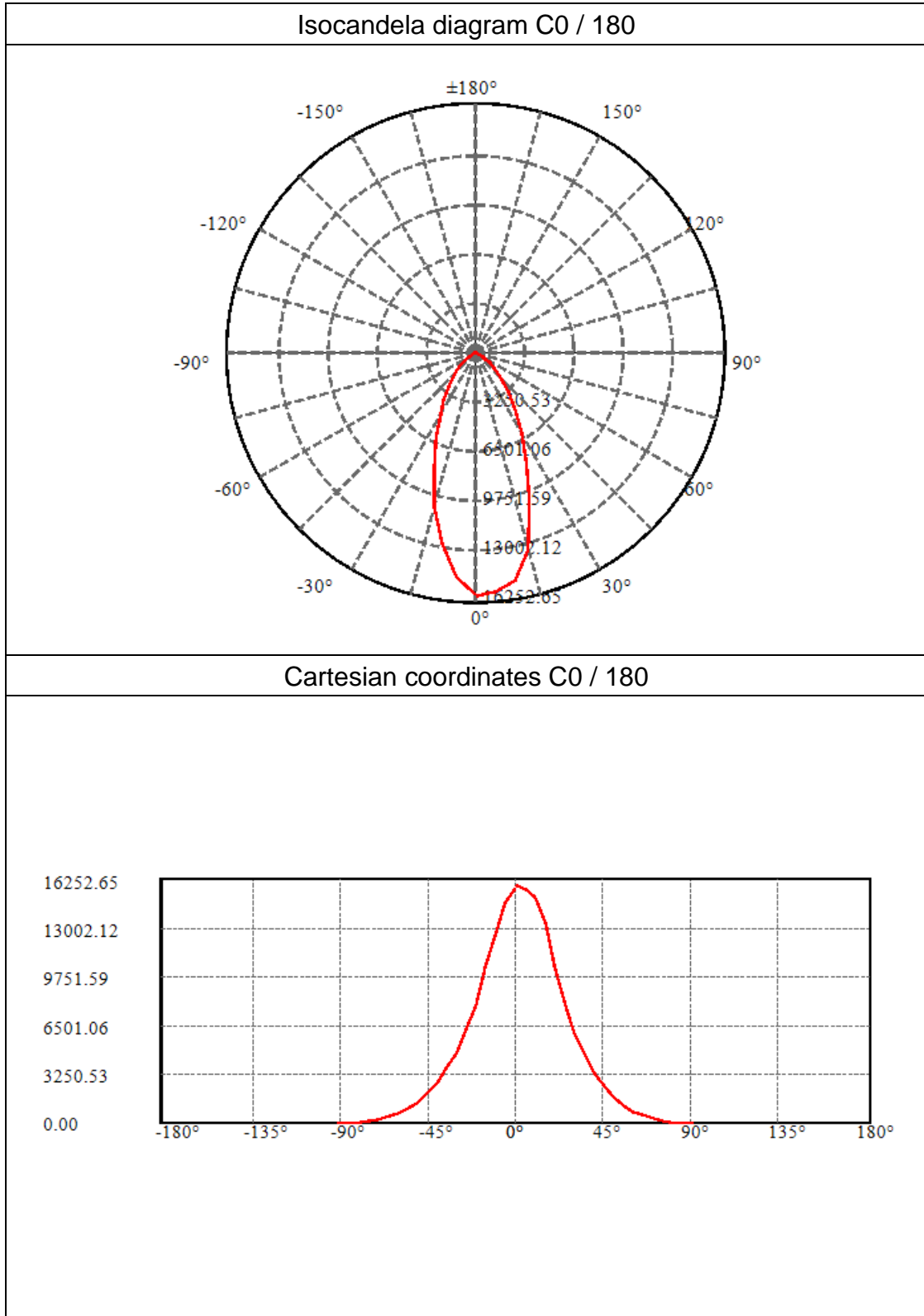


Diagram for luminous intensity distribution II

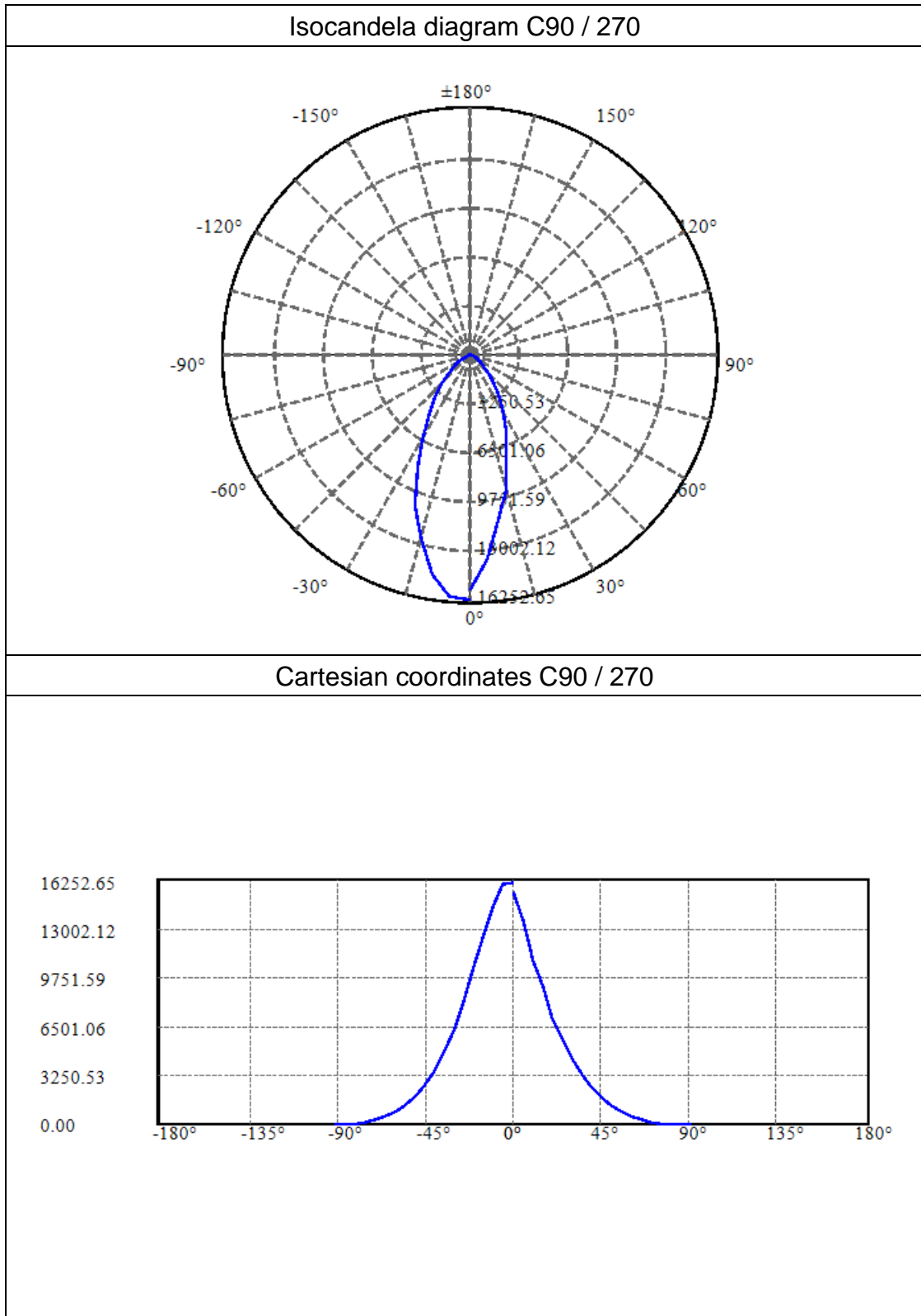
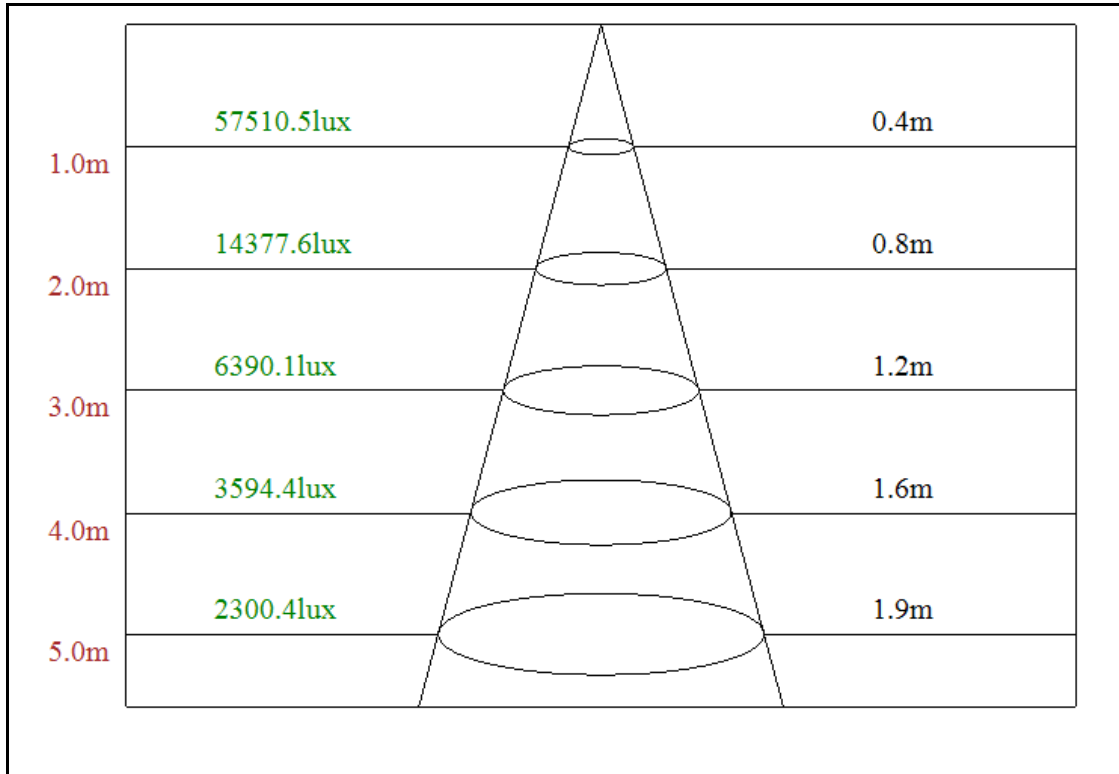
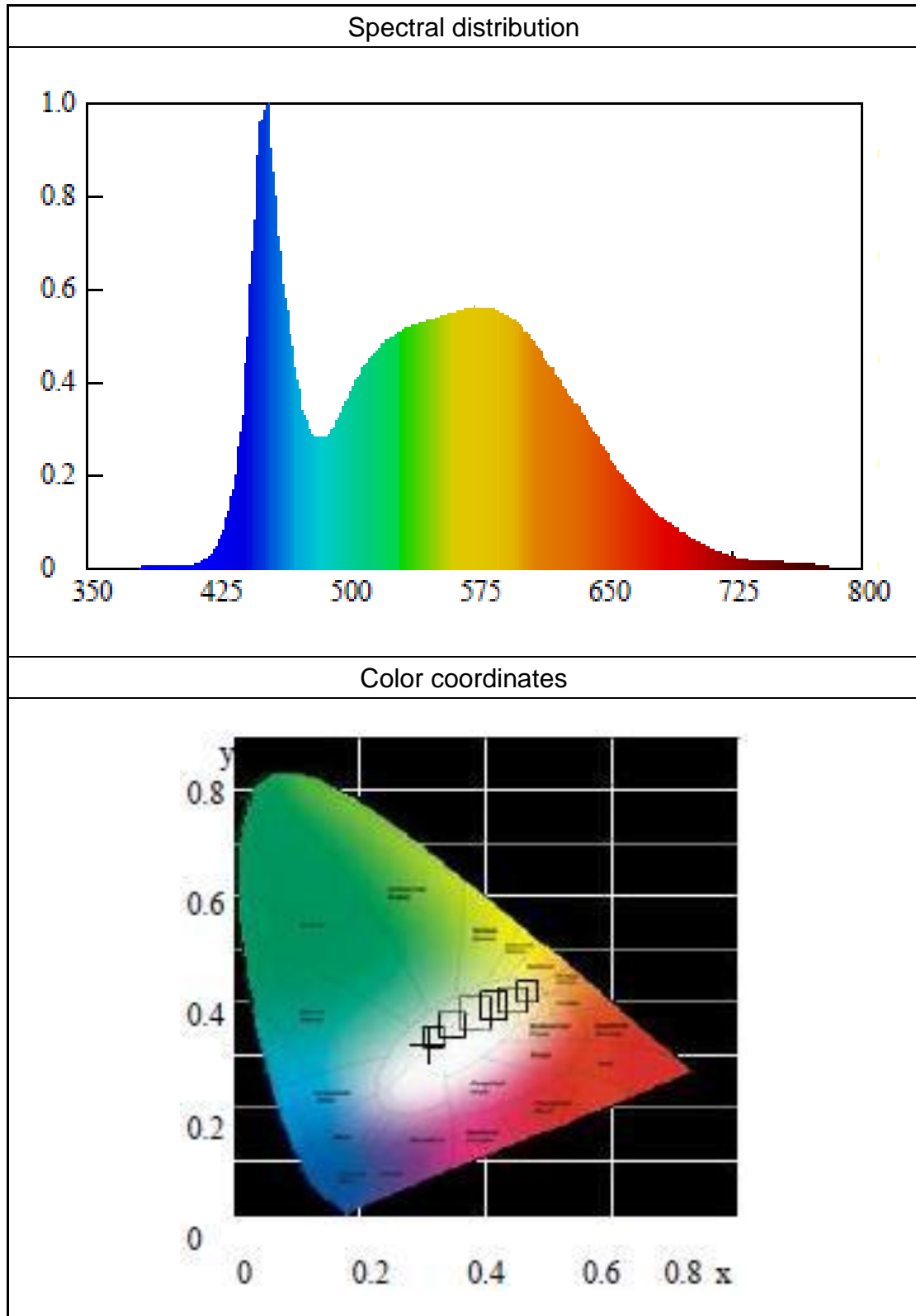


Diagram for illumination distance



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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	ρ 牆壁		50	30	30
ρ 地板		20	20	20	20	20	ρ 地板		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	7.5	8.4	7.8	8.6	8.8	6.0	6.9	6.3	7.1	7.3
	3H	7.8	8.6	8.1	8.8	9.1	6.1	6.9	6.4	7.2	7.4
	4H	7.8	8.5	8.1	8.8	9.1	6.1	6.9	6.4	7.1	7.4
	6H	7.7	8.4	8.1	8.7	9.0	6.0	6.7	6.4	7.0	7.3
	8H	7.7	8.4	8.1	8.7	9.0	6.0	6.7	6.3	7.0	7.3
	12H	7.7	8.3	8.0	8.6	8.9	6.0	6.6	6.3	6.9	7.2
4H	2H	7.6	8.3	7.9	8.6	8.8	6.2	7.0	6.5	7.2	7.5
	3H	7.9	8.5	8.3	8.8	9.2	6.4	7.0	6.8	7.3	7.7
	4H	8.0	8.5	8.3	8.8	9.2	6.4	6.9	6.8	7.3	7.6
	6H	7.9	8.4	8.3	8.7	9.1	6.3	6.8	6.7	7.2	7.5
	8H	7.9	8.3	8.3	8.7	9.1	6.3	6.7	6.7	7.1	7.5
	12H	7.9	8.2	8.3	8.6	9.0	6.2	6.6	6.7	7.0	7.4
8H	4H	7.9	8.3	8.3	8.7	9.1	6.3	6.8	6.8	7.1	7.5
	6H	7.8	8.2	8.3	8.6	9.0	6.3	6.6	6.7	7.0	7.5
	8H	7.8	8.1	8.3	8.5	9.0	6.2	6.5	6.7	7.0	7.4
	12H	7.8	8.0	8.2	8.5	9.0	6.2	6.4	6.7	6.9	7.4
12H	4H	7.8	8.2	8.3	8.6	9.0	6.3	6.7	6.7	7.1	7.5
	6H	7.8	8.1	8.3	8.5	9.0	6.2	6.5	6.7	7.0	7.4
	8H	7.8	8.0	8.2	8.5	9.0	6.2	6.4	6.7	6.9	7.4
對應照射距離，改變觀察者位置 S											
S = 1.0H		+1.0 / -1.3					+1.0 / -1.6				
S = 1.5H		+2.3 / -2.6					+2.1 / -3.2				
S = 2.0H		+3.9 / -4.2					+3.6 / -5.4				
標準表格		BK01					BK01				
更正加數		-10.2					-11.7				
更正的閃光指數，參照 12554lm 總光通量											

Photo for test items

Photo of product

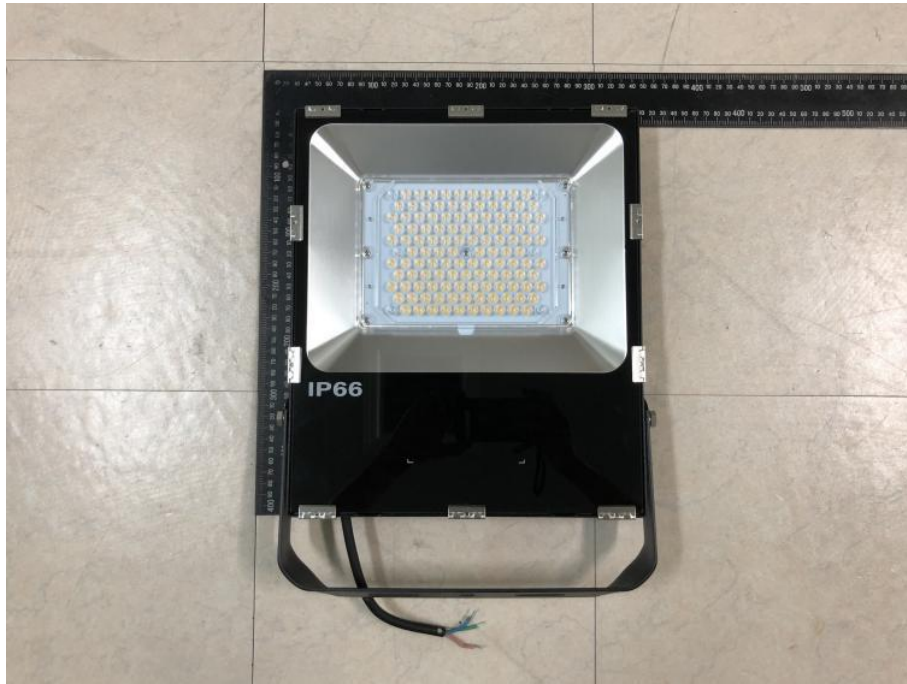
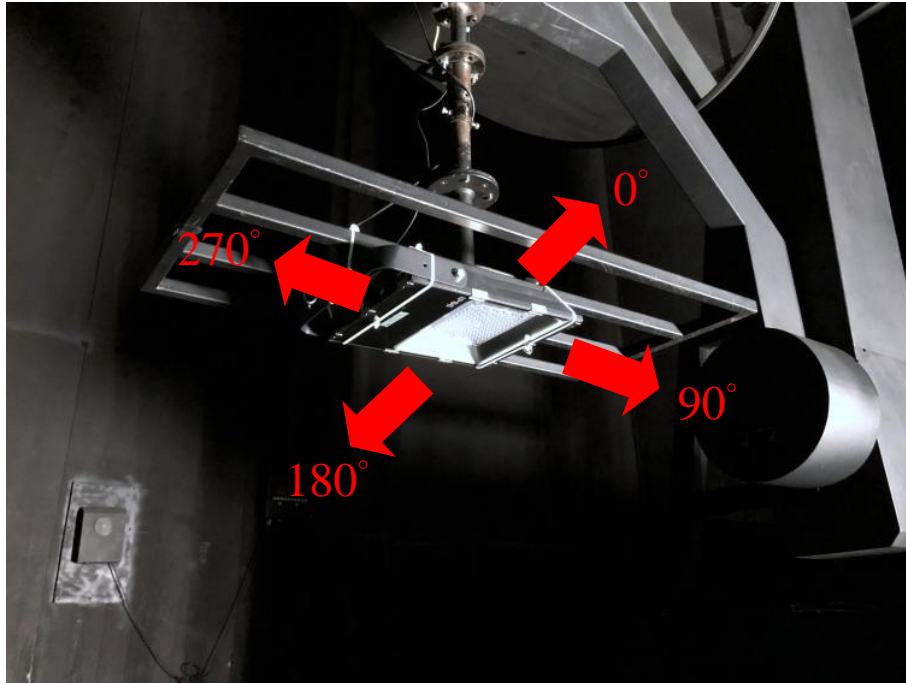


Photo of product



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	15870.57	15828.12	15785.66	15778.59	15707.83	15686.61	15658.3	15622.92
5	15580.47	15467.26	15325.75	15205.46	15007.35	14851.68	14688.95	14462.53
10	15007.35	14766.78	14483.75	14158.28	13868.18	13606.38	13167.69	12849.29
15	13302.13	12870.52	12460.13	12191.26	11887.01	11561.53	11285.58	11030.86
20	10386.98	10146.41	9927.066	9672.346	9431.774	9177.054	8894.029	8575.627
25	7839.765	7627.497	7500.136	7287.868	7026.071	6877.483	6700.593	6608.61
30	5971.806	5787.841	5646.329	5568.497	5455.288	5349.153	5264.247	5059.054
35	4584.281	4522.724	4401.731	4298.427	4142.056	4011.158	3947.477	3866.108
40	3358.08	3290.154	3250.531	3158.548	3100.528	3052.414	3031.895	2899.581
45	2412.072	2375.279	2288.957	2228.106	2249.333	2236.597	2171.502	2066.075
50	1686.823	1662.058	1617.482	1592.01	1560.17	1548.849	1533.283	1480.216
55	1146.247	1136.341	1112.992	1064.878	1033.745	1047.189	1030.207	982.8009
60	754.259	750.0135	741.5229	720.2961	719.5885	720.2961	717.4659	677.1349
65	460.9046	460.197	453.0507	443.6401	442.8618	438.4042	430.7625	411.0216
70	256.8443	255.9245	251.3253	247.2922	246.3016	244.8865	238.7307	225.9947
75	114.0587	113.4926	112.502	111.2992	109.3888	104.6481	101.2518	96.44043
80	28.65618	28.01937	28.16089	27.52408	26.67501	24.83536	22.35889	20.37773
85	2.12268	2.12268	2.12268	2.334948	2.334948	2.334948	2.264192	2.47646
90	0.636804	0.495292	0.70756	0.778316	0.70756	0.919828	0.919828	0.919828

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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	15601.7	15580.47	15559.24	15530.94	15516.79	15502.64	15481.41	15474.34	
5	14335.17	14179.5	14066.29	13931.86	13818.65	13747.89	13670.06	13620.53	
10	12608.72	12410.6	12205.41	11936.54	11766.72	11582.76	11448.32	11292.66	
15	10719.53	10549.72	10344.53	10082.73	9820.933	9552.06	9353.943	9290.263	
20	8377.511	8257.226	8073.259	7761.934	7613.346	7514.287	7464.758	7330.321	
25	6516.627	6424.645	6226.528	6092.091	6099.167	5957.655	5844.446	5724.161	
30	4917.542	4846.786	4712.35	4655.745	4535.459	4471.779	4393.948	4372.721	
35	3814.456	3774.833	3727.426	3653.132	3578.839	3473.412	3426.713	3375.769	
40	2794.154	2699.342	2634.246	2573.396	2499.81	2489.196	2459.479	2417.733	
45	1993.904	1966.309	1916.072	1885.647	1850.977	1819.137	1784.466	1760.409	
50	1437.054	1378.327	1333.043	1289.882	1278.561	1281.391	1262.995	1244.598	
55	960.1589	942.4699	910.6297	887.9878	882.3273	872.4215	856.8551	839.8737	
60	643.172	624.0679	604.2562	583.737	571.7085	567.4631	558.2648	555.4346	
65	391.2807	379.8889	363.4028	350.6667	340.1949	331.1381	319.8171	312.2462	
70	209.2962	203.7773	194.579	181.9844	172.9984	165.286	160.5454	151.1348	
75	89.71861	82.21848	76.0627	71.03902	66.86442	61.62848	57.45387	53.98683	
80	18.25505	16.62766	14.50498	12.3823	10.11811	8.702988	7.42938	6.36804	
85	2.264192	2.405704	2.47646	2.334948	2.405704	2.547216	2.334948	2.334948	
90	0.919828	0.990584	1.132096	1.202852	1.132096	1.132096	1.273608	1.202852	

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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	15460.19	15431.88	15410.66	15410.66	15396.51	15396.51	15396.51	15403.58
5	13563.92	13500.25	13422.41	13358.73	13309.2	13309.2	13309.2	13344.58
10	11151.15	11037.94	10931.8	10868.12	10846.89	10846.89	10917.65	10938.88
15	9177.054	9099.222	9077.995	8929.407	8830.349	8809.122	8837.424	8908.181
20	7217.112	7153.431	7011.919	7011.919	6962.391	6941.164	6948.239	6919.937
25	5667.556	5632.178	5575.573	5540.195	5511.893	5511.893	5504.817	5448.212
30	4386.872	4393.948	4330.267	4224.133	4118	4103.848	4089.697	4089.697
35	3286.616	3205.247	3184.728	3204.539	3203.124	3196.756	3163.501	3189.68
40	2417.025	2430.469	2392.968	2351.929	2303.108	2281.173	2276.928	2245.795
45	1760.409	1767.485	1746.966	1715.125	1679.747	1669.134	1653.568	1650.03
50	1231.154	1229.032	1238.23	1210.635	1186.578	1173.842	1162.521	1151.908
55	828.5527	827.8452	826.4301	808.7411	796.7126	791.7596	790.3445	780.4387
60	551.8968	558.9724	549.7741	539.1607	525.717	516.5188	519.3491	512.2734
65	305.0291	301.9866	300.996	298.4488	295.0525	295.6893	298.8026	303.8263
70	145.0498	141.1582	140.5214	139.4601	141.229	144.0592	152.3377	154.0358
75	50.73205	48.11408	47.33576	47.33576	48.53862	50.02449	51.58112	54.12834
80	5.801992	5.377456	5.235944	5.3067	5.448212	5.66048	6.155772	6.792576
85	2.47646	2.547216	2.405704	2.334948	2.334948	2.405704	2.405704	2.405704
90	1.202852	1.202852	1.273608	1.273608	1.344364	1.132096	1.273608	1.273608

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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	15424.81	15424.81	15446.04	15495.56	15495.56	15530.94	15573.4	15566.32
5	13372.88	13429.49	13500.25	13592.23	13712.51	13846.95	14023.84	14165.35
10	10974.26	11037.94	11094.54	11228.98	11328.04	11441.25	11632.29	11802.1
15	8978.937	9035.541	9035.541	9056.769	9169.978	9346.867	9530.833	9594.514
20	6990.693	6976.542	7040.222	7047.297	7153.431	7245.414	7323.246	7401.078
25	5398.683	5455.288	5554.346	5554.346	5526.043	5568.497	5625.102	5695.858
30	4082.621	4089.697	4096.772	4153.377	4195.831	4301.965	4358.569	4408.099
35	3198.171	3196.756	3190.388	3230.719	3227.889	3218.69	3230.011	3288.031
40	2264.899	2261.362	2296.74	2321.504	2372.449	2434.714	2437.544	2463.016
45	1641.539	1661.351	1686.115	1716.541	1749.088	1792.957	1815.599	1816.306
50	1143.417	1163.936	1185.871	1214.173	1230.447	1266.532	1277.853	1267.24
55	779.7311	788.2218	800.2504	820.7696	836.3359	873.129	879.4971	869.5912
60	516.5188	520.7642	534.9153	545.5287	566.048	591.5202	607.0865	595.058
65	308.8499	311.1849	317.4114	322.1521	330.289	346.9167	353.0017	350.7375
70	157.2906	158.5642	163.6586	171.371	174.9796	183.4703	188.1402	186.3006
75	57.38312	58.79823	60.56714	63.75116	66.93517	67.78425	71.46356	71.74658
80	7.358624	8.066184	8.773745	9.55206	10.18886	10.89642	11.67474	12.02852
85	2.264192	2.193436	2.193436	2.051924	1.981168	2.051924	1.981168	1.981168
90	1.202852	1.202852	1.132096	1.06134	0.990584	0.990584	0.919828	0.70756

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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	15608.77	15622.92	15778.59	15870.57	15778.59	15707.83	15714.91	15757.36
5	14236.11	14328.09	14420.07	14526.21	14625.27	14710.17	14837.53	14957.82
10	11887.01	12085.13	12205.41	12438.9	12615.79	12792.68	12905.89	13082.78
15	9736.025	9870.462	9983.671	10280.85	10436.51	10705.38	10861.05	10974.26
20	7450.606	7563.816	7684.102	7776.084	7882.219	8108.638	8250.149	8434.115
25	5809.067	5893.975	5971.806	6056.714	6162.848	6247.755	6445.871	6608.61
30	4408.099	4415.174	4493.006	4563.762	4620.367	4719.425	4776.03	4868.013
35	3368.693	3450.063	3514.45	3564.687	3641.104	3692.756	3755.021	3838.513
40	2492.026	2500.517	2528.819	2550.754	2600.283	2656.18	2710.662	2791.324
45	1799.325	1819.137	1845.317	1876.449	1901.214	1930.224	1969.847	1996.734
50	1277.146	1292.005	1315.354	1323.845	1324.552	1340.119	1391.771	1423.611
55	861.8081	876.6668	885.8651	897.1861	898.6012	912.0449	940.3472	962.9891
60	583.737	583.737	585.8597	592.2277	595.058	603.5486	624.7755	636.804
65	349.7469	349.1808	360.4311	365.101	368.6388	371.469	378.5446	387.0353
70	185.3807	183.0458	185.3807	188.9185	193.2346	197.0555	200.5225	206.183
75	73.86926	72.73717	73.0202	73.44473	75.77968	77.90236	81.72318	86.39308
80	12.66532	12.80684	12.80684	12.87759	13.5144	14.43422	15.35405	16.98144
85	2.12268	1.910412	1.910412	1.839656	1.839656	2.051924	2.12268	2.193436
90	0.778316	0.636804	0.778316	0.636804	0.566048	0.70756	0.566048	0.566048

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Data for luminous intensity (6)

Intensity data(cd)		Page: 6 Total:10						
$\gamma/C(^{\circ})$	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0
0	15757.36	15785.66	15828.12	15821.04	15849.34	15870.57	15905.95	15927.18
5	15113.48	15198.39	15269.14	15396.51	15481.41	15530.94	15587.55	15622.92
10	13231.37	13372.88	13606.38	13733.74	13875.25	13981.39	14037.99	14101.67
15	11101.62	11257.28	11370.49	11455.4	11554.46	11618.13	11802.1	12014.37
20	8561.477	8787.896	9042.616	9198.28	9346.867	9481.304	9559.136	9636.967
25	6643.989	6700.593	6721.82	6842.105	6983.617	7160.507	7294.944	7394.002
30	4981.222	5115.659	5235.944	5299.624	5370.38	5448.212	5540.195	5660.48
35	3836.39	3844.881	3890.873	3973.657	4121.537	4197.246	4297.719	4368.475
40	2850.052	2885.43	2954.063	3007.13	3064.442	3136.614	3166.331	3154.302
45	2030.697	2094.378	2168.671	2198.389	2192.021	2189.898	2233.059	2274.098
50	1449.083	1487.999	1509.225	1546.726	1564.415	1568.661	1563.708	1578.566
55	962.9891	984.216	1021.009	1034.453	1039.406	1054.264	1062.755	1076.199
60	655.9081	679.2576	704.7297	711.0978	705.4373	702.6071	699.7769	712.5129
65	397.6487	416.0453	428.7814	430.9041	428.7814	429.4889	430.9041	433.7343
70	214.6737	229.1079	234.6269	235.3345	234.4146	232.7165	233.2825	237.4571
75	89.36483	93.75169	96.08665	97.99706	99.83672	99.41218	99.0584	99.27067
80	18.3258	19.17488	19.74092	20.23622	20.66075	21.29756	21.58058	21.36831
85	2.334948	2.405704	2.547216	2.688728	2.688728	2.900996	2.900996	2.900996
90	0.636804	0.70756	0.636804	0.636804	0.566048	0.566048	0.636804	0.495292

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Data for luminous intensity (7)

Page: 7 Total:10

Intensity data(cd)	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0
$\gamma/C(^{\circ})$	15948.4	15976.71	15990.86	16012.08	16026.23	16047.46	15410.66	16075.76
0	15658.3	15672.45	15707.83	15750.29	15799.81	15870.57	15927.18	15934.25
5	14122.9	14158.28	14193.65	14292.71	14342.24	14413	14582.81	14632.34
10	12191.26	12233.71	12226.64	12247.86	12290.32	12354	12410.6	12530.89
15	9750.177	9983.671	10103.96	10203.02	10280.85	10365.75	10507.27	10521.42
20	7542.589	7705.329	7797.312	7917.596	7988.353	7995.428	8037.881	8158.167
25	5780.765	5830.294	5971.806	6042.563	6106.243	6205.301	6283.133	6382.191
30	4427.91	4508.572	4569.422	4624.612	4630.273	4691.123	4775.322	4813.531
35	3195.341	3279.541	3367.278	3473.412	3507.375	3527.187	3558.319	3577.424
40	2323.627	2347.684	2378.109	2377.402	2449.573	2550.046	2563.49	2593.915
45	1599.086	1639.417	1675.502	1698.852	1747.673	1778.098	1789.419	1816.306
50	1098.841	1122.19	1134.219	1150.493	1159.691	1186.578	1208.512	1197.192
55	721.0037	736.5699	752.8439	766.2874	778.316	788.9294	808.7411	807.326
60	440.1023	447.1779	457.7913	465.5745	473.3577	491.7542	503.7827	502.3676
65	240.1459	239.226	241.0657	244.3912	246.3016	252.3159	257.9764	258.1179
70	98.56311	97.43102	97.43102	98.06782	97.85555	98.77537	99.83672	101.9594
75	21.36831	21.29756	21.01453	21.01453	21.01453	21.58058	22.00512	23.13721
80	3.042508	3.113264	3.254776	3.18402	3.254776	3.254776	3.18402	3.396288
85	0.636804	0.495292	0.636804	0.495292	0.566048	0.636804	0.566048	0.778316
90								

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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	16054.54	16054.54	16082.84	16096.99	16089.91	16111.14	16111.14	16104.07
5	15948.4	15969.63	15969.63	15990.86	15997.93	16075.76	16153.59	16217.28
10	14688.95	14752.63	14795.08	14943.67	15049.8	15177.16	15304.52	15509.71
15	12622.87	12764.38	12934.2	13139.39	13379.96	13479.02	13493.17	13606.38
20	10620.48	10719.53	10818.59	10981.33	11094.54	11158.22	11200.67	11243.13
25	8285.527	8434.115	8504.871	8526.098	8547.325	8611.005	8632.231	8611.005
30	6360.964	6445.871	6509.552	6502.476	6573.232	6587.384	6552.006	6509.552
35	4877.918	4944.429	4969.194	5032.874	5044.195	5018.016	5025.091	4984.053
40	3667.991	3696.293	3682.142	3698.416	3698.416	3706.907	3767.757	3780.493
45	2545.093	2565.613	2612.312	2625.048	2627.878	2637.076	2625.755	2625.755
50	1819.137	1811.354	1830.458	1839.656	1846.024	1847.439	1844.609	1885.647
55	1209.928	1237.522	1246.013	1265.117	1255.919	1250.966	1253.796	1254.504
60	808.0335	820.0621	827.8452	829.9678	825.015	825.7225	829.9678	837.751
65	493.1693	501.66	507.3205	508.0281	508.7356	511.5659	515.1036	525.0095
70	258.6132	264.6982	274.1795	280.0522	282.5995	285.1467	284.7221	288.7552
75	104.1528	108.752	115.1908	119.7899	122.4079	127.007	130.8986	135.5685
80	24.55233	26.17972	27.80711	29.22223	31.34491	33.96288	34.59969	35.80254
85	3.254776	3.396288	3.254776	3.254776	3.325532	3.254776	3.18402	3.18402
90	0.849072	1.06134	1.132096	1.132096	1.202852	1.273608	1.202852	1.344364

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Data for luminous intensity (9)

Page: 9 Total:10

Intensity data(cd)	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0
γ/C(°)	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0
0	16096.99	16082.84	16068.69	16040.38	16033.31	15990.86	15976.71	15941.33
5	16238.5	16252.65	16245.58	16146.52	16047.46	15920.1	15842.27	15707.83
10	15714.91	15835.19	15785.66	15799.81	15714.91	15608.77	15396.51	15191.31
15	13719.59	13903.55	14023.84	13960.16	13960.16	13931.86	13896.48	13670.06
20	11356.34	11384.64	11398.79	11335.11	11243.13	11165.3	11002.56	10648.78
25	8540.249	8519.022	8511.946	8476.568	8419.964	8384.586	8179.394	7981.276
30	6516.627	6502.476	6460.023	6431.721	6360.964	6290.208	6106.243	6063.789
35	4984.053	4959.996	4894.192	4845.371	4863.06	4825.559	4769.662	4720.84
40	3755.021	3718.228	3719.643	3692.756	3669.406	3577.424	3500.299	3418.93
45	2696.511	2729.767	2709.955	2630	2563.49	2526.697	2501.225	2467.969
50	1902.629	1890.6	1875.742	1852.392	1821.259	1783.051	1749.088	1709.465
55	1256.627	1277.853	1255.919	1221.249	1218.418	1212.05	1190.823	1162.521
60	850.4871	863.2232	850.4871	832.0906	821.4772	810.1562	783.2689	759.9194
65	537.038	556.1422	551.6138	525.5048	507.9573	495.1505	482.5559	466.9896
70	296.8922	305.3829	302.9772	294.1327	285.5712	275.4531	265.9718	260.9482
75	138.894	141.0875	139.3186	135.0732	131.9599	125.2381	120.7097	116.4644
80	36.65161	37.35917	37.35917	36.5101	35.51951	33.25532	30.70811	29.4345
85	3.113264	2.900996	2.688728	2.759484	2.547216	2.405704	2.405704	2.264192
90	1.132096	1.132096	1.06134	0.990584	0.849072	0.778316	0.778316	0.566048

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Data for luminous intensity (10)

Intensity data(cd)

Page: 10 Total:10

$\gamma/C(^{\circ})$	360.0
0	15870.57
5	15580.47
10	15007.35
15	13302.13
20	10386.98
25	7839.765
30	5971.806
35	4584.281
40	3358.08
45	2412.072
50	1686.823
55	1146.247
60	754.259
65	460.9046
70	256.8443
75	114.0587
80	28.65618
85	2.12268
90	0.636804

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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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