



廣益全球驗證有限公司

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Goniophotometer Measurement Report For Luminaires

Applicant : KWO GER METAL TECHNOLOGY INC.

Applicant Add : 3-5, Wulin St, Shulin City, Taipei county, Taiwan, (R.O.C.)

Report No : GO1101210101

Product Name : LED Streer Lamp

Model No : KG50W

Sample No : 11012101-1

Test Specification: CIE Pub. No. 70 The Measurement of Absolute
Luminous Intensity Distribution 1987

Test Date: 2011-1-24

Issue Date: 2011-1-24

- Note: 1. The test results of this report relate only to the tested sample identified in this report.
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Tested By:

Reviewed By:

Roy Kao

Sean Kao

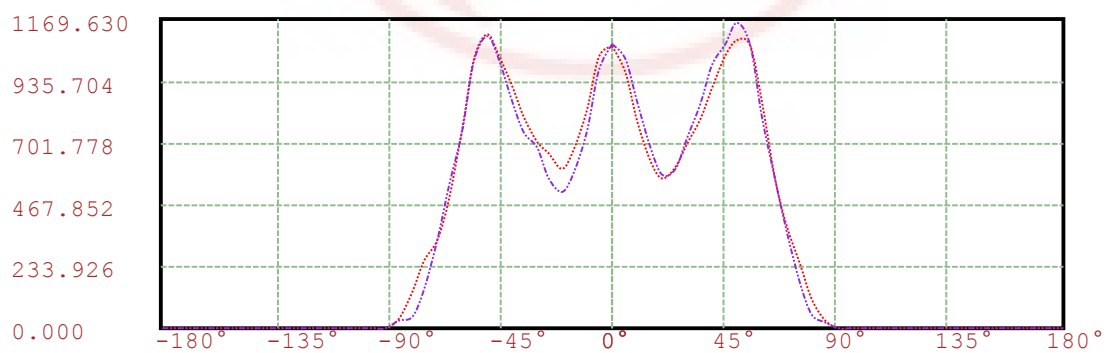
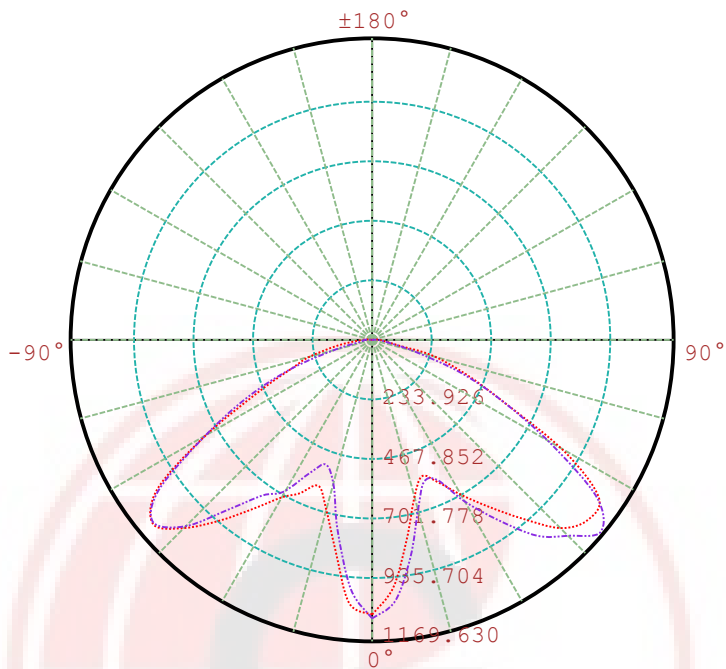
Roy Kao

Sean Kao

Project Engineer

Project Engineer

Light Distribution Curve [Unit: cd]



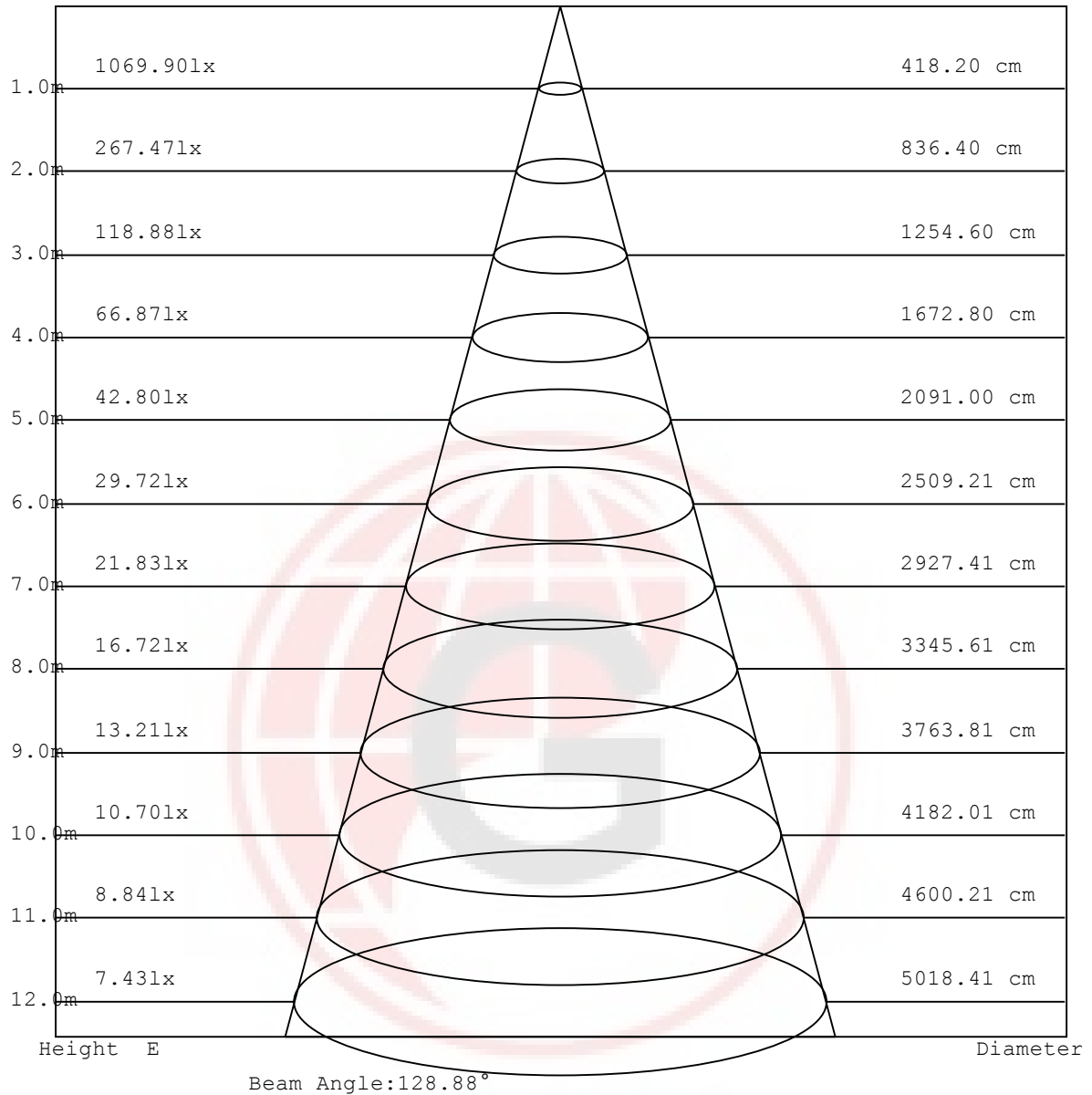
C0/C180:
 C90/C270: - - - - -

Equipment: GMS1800
 Temperature (°C): 25.0

Date:
 Humidity (%): 50.0%

Operator: Roy Kao
 Distance (m): 13.6

Lux distance Curve

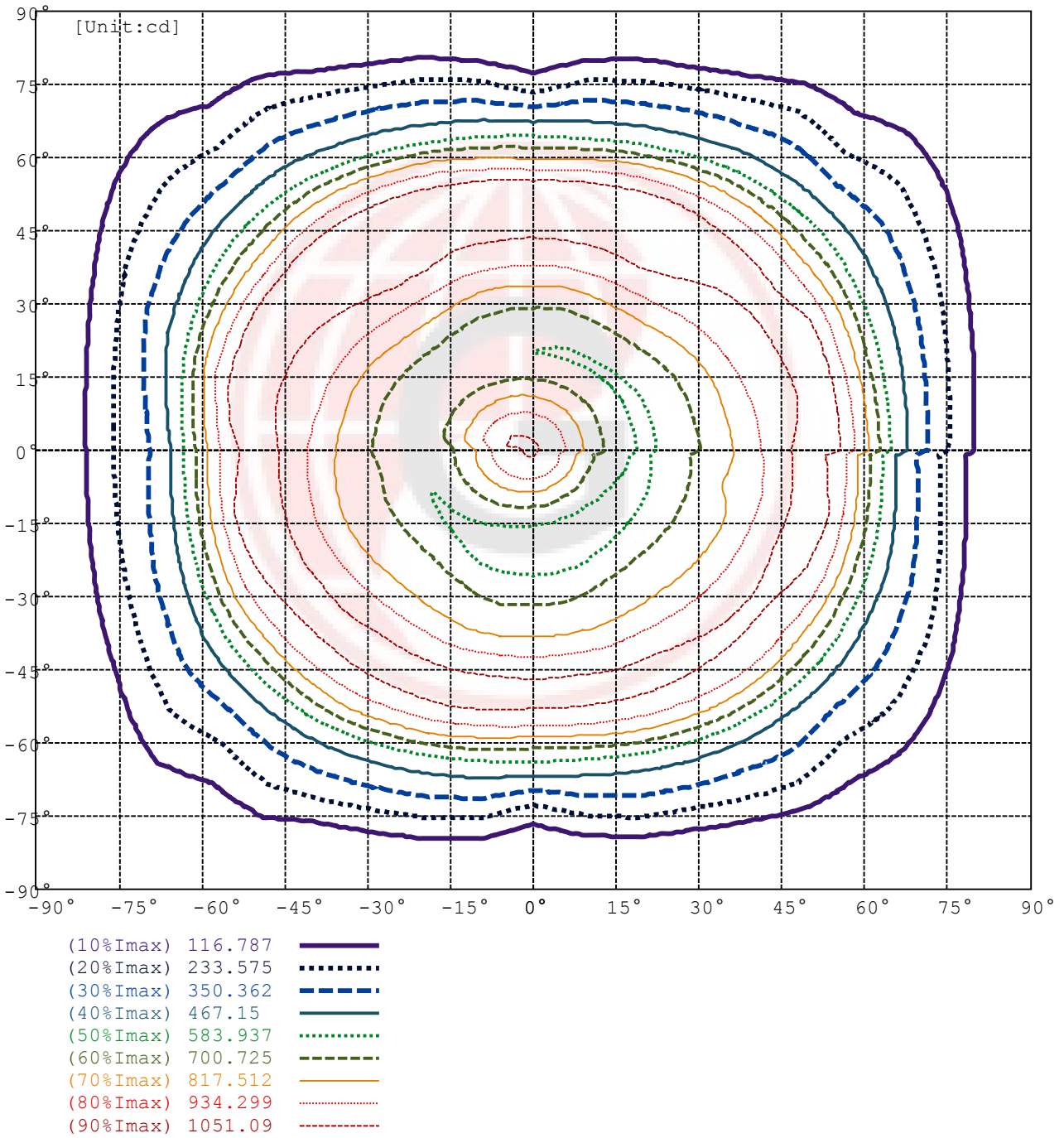


Equipment: GMS1800
 Temperature (°C): 25.0

Date:
 Humidity (%): 50.0%

Operator: Roy Kao
 Distance (m): 13.6

ISO-Intensity (V-H)

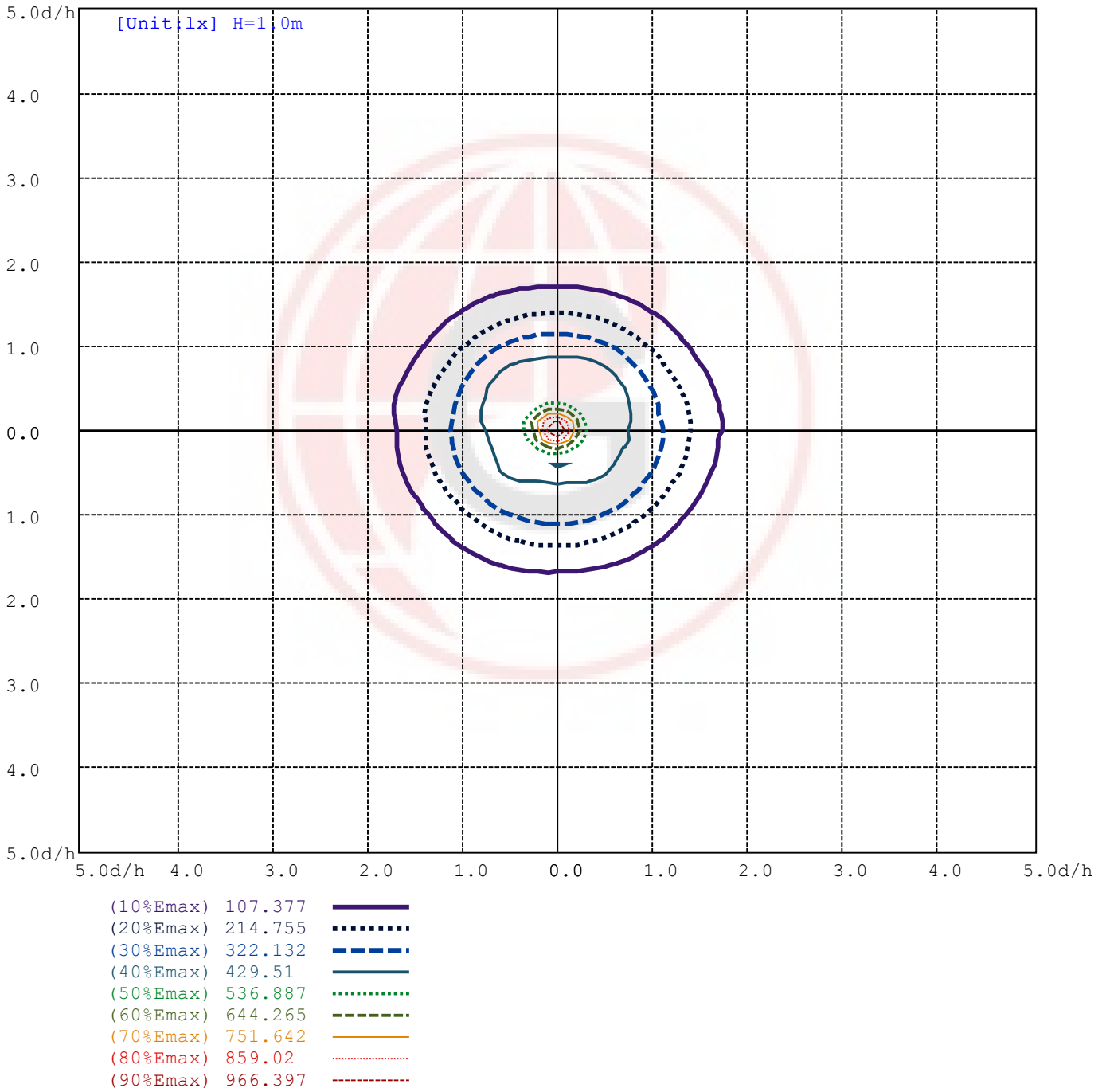


Equipment: GMS1800
Temperature (°C): 25.0

Date:
Humidity (%): 50.0%

Operator: Roy Kao
Distance (m): 13.6

ISO illuminance diagram



Equipment: GMS1800
Temperature (°C): 25.0

Date:
Humidity (%): 50.0%

Operator: Roy Kao
Distance (m): 13.6

Intensity data(cd)

c/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
360.0	1065.7	936.4	717.1	604.5	568.1	642.3	735.1	786.4	896.3	1026.5
350.0	1065.7	921.0	729.0	604.9	560.2	629.0	720.8	825.0	878.9	1010.8
340.0	1071.7	941.2	716.8	596.7	553.5	627.9	722.5	768.1	885.0	1025.2
330.0	1073.2	942.3	723.8	588.6	548.2	622.8	723.4	775.5	895.7	1022.8
320.0	1074.5	946.2	722.9	585.8	541.9	625.2	730.6	785.5	899.4	1026.3
310.0	1075.1	948.6	732.1	579.4	532.1	616.7	733.6	789.4	902.6	1034.3
300.0	1075.6	953.9	730.6	581.4	521.7	603.0	716.2	773.1	895.0	1037.0
290.0	1076.5	958.3	739.5	579.6	512.5	583.4	694.8	751.1	874.3	1022.8
280.0	1076.5	964.8	750.0	586.4	510.7	576.2	682.1	737.6	866.7	1024.8
270.0	1076.5	970.0	751.7	588.8	513.1	569.8	683.2	739.1	858.1	1017.1
260.0	1076.7	978.3	764.8	599.1	515.5	573.8	677.4	732.5	857.7	1019.7
250.0	1076.0	985.1	770.7	606.7	524.0	580.3	688.1	743.0	863.0	1017.6
240.0	1075.8	994.5	788.6	622.8	538.6	596.0	711.2	772.6	895.4	1033.7
230.0	1074.7	1003.6	795.8	639.9	554.2	622.2	742.1	796.0	916.4	1045.7
220.0	1072.9	1011.0	812.8	648.4	566.3	632.2	745.8	802.3	921.6	1040.2
210.0	1071.6	1018.4	818.9	662.7	574.4	636.8	736.0	785.8	908.9	1042.2
200.0	1069.9	1022.8	833.9	669.1	583.2	639.0	731.0	781.0	896.5	1028.0
190.0	1068.6	1028.0	836.5	681.1	594.3	649.7	736.4	787.0	905.3	1031.7
180.0	1065.7	1026.9	828.7	679.1	603.2	661.6	706.2	802.1	914.4	1034.4
170.0	1065.7	1052.7	913.8	732.8	626.5	635.1	723.2	818.4	946.0	1011.7
160.0	1071.7	1053.1	918.3	731.2	627.2	633.3	726.4	828.7	961.9	1025.6
150.0	1073.2	1053.5	910.5	725.6	628.3	639.9	738.9	846.2	984.8	1058.6
140.0	1074.5	1049.2	908.7	725.5	622.2	646.2	758.0	882.8	1021.0	1086.5
130.0	1075.1	1045.3	896.1	717.0	618.9	642.7	772.4	898.0	1039.8	1112.7
120.0	1075.6	1039.1	890.9	712.2	606.0	632.4	755.2	888.0	1035.9	1110.5
110.0	1076.5	1031.3	876.3	700.2	597.7	613.5	731.5	857.5	1003.6	1081.5
100.0	1076.5	1025.0	869.3	693.1	587.9	608.2	719.7	846.1	997.1	1078.8
90.0	1076.5	1016.2	854.0	682.4	584.4	603.2	720.1	851.2	992.7	1074.1
80.0	1076.7	1009.5	839.8	678.4	576.0	605.0	715.3	844.8	1000.8	1078.8
70.0	1076.0	999.3	833.3	669.7	571.2	610.8	734.0	866.2	1016.9	1082.5
60.0	1075.8	992.5	819.3	667.3	571.8	625.2	752.1	887.2	1036.1	1092.4
50.0	1074.7	983.6	813.7	658.2	568.5	625.0	757.4	888.3	1021.5	1074.3
40.0	1072.9	977.0	801.0	653.4	566.3	620.9	739.1	857.0	994.0	1045.7
30.0	1071.6	969.1	795.6	644.9	563.7	612.6	715.7	830.7	966.7	1026.1
20.0	1069.9	964.1	783.3	636.3	563.3	612.8	711.4	814.8	941.7	1009.1
10.0	1068.6	959.3	781.4	632.6	563.1	612.6	705.9	809.1	927.1	986.8
0.0	1068.6	963.3	787.5	634.4	565.9	606.9	695.0	790.6	906.4	1032.6

Equipmente: GMS1800
 Temperature(°C): 25.0

Date:
 Humidity(%): 50.0%

Operator: Roy Kao
 Distance(m): 13.6

Intensity data(cd)

C/γ(°)	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
360.0	1095.9	1017.8	748.4	487.4	328.4	189.3	75.0	31.4	1.1	1.3
350.0	1092.2	1048.5	773.5	505.5	372.3	244.5	99.0	11.3	0.9	0.7
340.0	1091.7	1031.9	755.7	491.1	361.6	232.9	93.8	34.7	1.3	1.3
330.0	1069.9	978.5	740.2	494.0	330.8	190.2	76.8	32.0	1.3	1.3
320.0	1070.5	1000.1	761.8	489.4	374.4	248.4	91.6	33.6	1.5	1.5
310.0	1079.7	1003.0	784.0	508.1	378.6	248.6	89.9	34.9	1.3	1.1
300.0	1092.1	1011.5	785.3	518.1	396.9	249.3	95.1	39.3	1.1	0.9
290.0	1098.9	1015.0	792.3	521.7	399.7	267.1	110.6	39.9	1.1	1.3
280.0	1104.6	1013.9	758.7	522.3	384.2	236.6	90.9	41.6	0.9	0.9
270.0	1103.9	1012.8	748.0	536.1	336.3	148.1	44.5	29.9	0.9	1.1
260.0	1112.0	1028.0	783.4	539.3	397.8	251.5	111.6	46.4	1.3	1.1
250.0	1108.7	1034.6	814.7	537.1	405.6	271.7	117.8	46.0	0.9	0.9
240.0	1108.9	1021.0	808.2	537.1	402.1	255.8	109.7	48.0	1.1	0.9
230.0	1098.3	1014.9	804.1	523.2	392.1	253.4	96.4	43.8	1.1	0.9
220.0	1093.5	994.7	769.2	509.2	373.6	254.3	121.5	51.9	1.1	1.3
210.0	1096.1	1003.8	747.8	512.7	343.3	203.3	85.1	37.9	0.9	1.1
200.0	1105.5	1037.4	785.8	510.5	372.7	251.5	125.4	55.8	1.1	1.1
190.0	1104.1	1057.2	784.2	497.0	366.4	241.4	112.3	51.3	1.1	0.9
180.0	1108.1	1017.8	757.2	483.1	331.5	255.4	134.6	39.9	0.9	0.7
170.0	1097.0	1113.9	878.2	570.7	411.3	287.4	162.2	34.9	12.4	1.3
160.0	1112.9	1095.6	845.3	572.5	396.7	271.3	154.8	35.5	10.3	1.1
150.0	1123.8	1068.4	818.4	565.1	378.1	239.9	116.4	28.8	9.0	0.9
140.0	1143.2	1077.7	845.1	564.4	403.5	280.7	149.2	30.5	11.3	1.3
130.0	1159.5	1087.8	863.0	559.6	404.3	282.8	127.3	27.1	8.9	0.9
120.0	1169.6	1091.3	866.9	565.3	413.9	281.1	130.0	28.6	9.4	0.9
110.0	1160.9	1086.9	870.6	560.7	411.7	286.8	142.0	26.4	7.8	0.9
100.0	1166.3	1085.4	830.9	561.1	404.1	261.0	112.7	26.2	7.8	1.3
90.0	1156.1	1065.5	800.1	555.9	365.7	170.3	52.5	22.5	3.5	0.9
80.0	1155.6	1075.4	820.0	539.3	406.3	266.9	118.8	24.9	4.4	0.9
70.0	1149.7	1070.1	849.0	546.9	408.9	275.7	130.9	22.9	2.0	0.9
60.0	1146.7	1065.5	841.3	541.1	407.6	271.3	113.4	23.3	3.3	0.7
50.0	1121.1	1039.6	832.9	541.9	399.3	262.8	107.3	21.6	1.3	0.9
40.0	1099.6	1025.8	802.1	522.9	396.3	273.7	125.2	22.0	0.9	1.1
30.0	1092.8	1014.7	768.5	539.1	361.6	215.2	96.8	22.5	0.9	0.9
20.0	1089.5	1056.0	811.7	529.9	396.9	270.6	135.0	23.6	0.7	0.7
10.0	1073.8	1069.3	825.9	541.9	400.4	266.1	134.6	25.3	1.1	1.3
0.0	1090.6	1070.6	858.4	560.2	386.9	237.5	109.2	26.6	0.9	0.9

Equipment: GMS1800
 Temperature(°C): 25.0

Date:
 Humidity(%): 50.0%

Operator: Roy Kao
 Distance(m): 13.6

Intensity data (cd)

C/γ (°)	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
360.0	1.3	1.3	1.5	1.3	1.5	1.5	1.7	1.7	1.5	1.7
350.0	0.9	1.5	0.9	1.3	1.1	1.3	1.5	1.7	1.7	1.7
340.0	1.3	1.3	1.3	1.3	1.5	1.7	1.7	1.5	1.7	1.7
330.0	1.3	1.1	1.1	1.3	1.3	1.3	1.5	1.3	1.3	1.3
320.0	1.3	1.3	1.1	1.3	1.3	1.5	1.5	1.7	1.5	1.7
310.0	1.5	1.3	1.5	1.7	1.5	1.7	1.7	1.7	1.5	1.5
300.0	0.9	0.9	1.1	1.3	1.3	1.5	1.5	1.5	1.7	1.7
290.0	1.1	1.1	1.3	1.1	1.3	1.3	1.3	1.7	1.7	1.7
280.0	1.1	0.9	1.3	1.3	1.5	1.5	1.7	1.5	1.5	1.7
270.0	1.3	1.5	1.5	1.7	1.7	1.5	1.3	1.5	1.3	1.3
260.0	1.5	1.3	1.3	1.5	1.5	1.3	1.3	1.3	1.3	1.3
250.0	0.9	1.3	1.3	1.5	1.5	1.7	1.5	1.5	1.5	1.7
240.0	0.7	0.9	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.5
230.0	0.9	1.1	0.9	1.1	1.1	1.3	1.3	1.3	1.3	1.3
220.0	1.5	1.3	1.3	1.5	1.3	1.3	1.3	1.3	1.5	1.3
210.0	1.5	1.3	1.7	1.5	1.7	1.5	1.5	1.5	1.5	1.5
200.0	1.3	1.3	1.3	1.3	1.5	1.3	1.7	1.3	1.3	1.3
190.0	0.7	1.1	1.1	1.1	1.1	1.1	1.3	1.5	1.5	1.5
180.0	0.9	1.3	1.5	1.5	1.5	1.7	1.5	1.3	1.3	1.3
170.0	1.7	1.3	1.5	1.3	1.7	1.5	1.5	1.3	1.3	1.3
160.0	0.9	0.9	0.9	1.1	1.3	1.1	1.3	1.1	1.1	1.1
150.0	0.9	0.9	1.1	1.3	1.3	1.8	1.7	1.7	1.7	1.5
140.0	0.9	0.9	0.9	1.5	1.5	1.7	1.7	1.7	1.7	1.5
130.0	1.3	1.3	1.3	1.5	1.7	1.5	1.8	1.7	1.7	1.7
120.0	0.9	1.1	1.1	0.9	1.3	1.3	1.3	1.3	1.5	1.7
110.0	0.9	1.1	0.9	1.1	1.1	1.1	1.3	1.3	1.3	1.1
100.0	1.1	1.3	1.1	1.5	1.7	1.5	1.5	1.5	1.7	1.7
90.0	1.1	1.1	1.5	1.5	1.3	1.1	1.3	1.7	1.7	1.5
80.0	1.1	0.9	1.1	0.9	1.3	1.3	1.3	1.5	1.7	1.5
70.0	0.9	1.1	1.1	1.3	1.1	1.5	1.5	1.5	1.5	1.5
60.0	0.9	0.9	1.1	0.9	1.3	1.3	1.1	1.3	1.3	1.3
50.0	1.1	1.1	1.1	0.9	1.1	1.3	1.3	1.5	1.7	1.5
40.0	1.3	1.3	1.5	1.5	1.5	1.3	1.1	1.3	1.5	1.8
30.0	0.9	1.1	1.1	1.1	1.5	1.7	1.7	1.7	1.7	1.7
20.0	0.9	0.9	1.1	1.1	1.1	1.3	1.3	1.5	1.5	1.5
10.0	1.3	1.1	1.1	1.3	1.3	1.3	1.3	1.5	1.7	1.7
0.0	0.9	1.1	1.1	0.9	1.1	1.3	1.3	1.5	1.7	1.5

Equipment: GMS1800
 Temperature (°C): 25.0

Date:
 Humidity (%): 50.0%

Operator: Roy Kao
 Distance (m): 13.6

Intensity data(cd)

C/γ(°)	150.0	155.0	160.0	165.0	170.0	175.0	180.0
360.0	1.7	1.7	1.7	1.7	1.5	1.7	1.7
350.0	1.5	1.5	1.3	1.1	1.1	1.3	1.3
340.0	1.3	1.3	1.3	1.3	1.1	1.5	1.7
330.0	1.3	1.1	1.3	1.1	1.3	1.1	1.3
320.0	1.7	1.7	1.7	1.3	1.5	1.3	1.7
310.0	1.5	1.3	1.1	1.3	1.3	1.5	1.3
300.0	1.7	1.7	1.5	1.7	1.5	1.5	1.1
290.0	1.7	1.3	1.3	1.1	1.1	1.1	1.3
280.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
270.0	1.5	1.3	1.5	1.5	1.5	1.3	1.3
260.0	1.3	1.3	1.3	1.3	1.5	1.5	1.5
250.0	1.5	1.7	1.7	1.7	1.7	1.7	1.7
240.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
230.0	1.3	1.1	1.3	1.1	1.3	1.3	1.1
220.0	1.3	1.5	1.5	1.7	1.5	1.5	1.7
210.0	1.5	1.5	1.5	1.5	1.5	1.5	1.7
200.0	1.3	1.1	1.5	1.3	1.3	1.3	0.9
190.0	1.7	1.7	1.5	1.3	1.1	1.3	1.3
180.0	1.5	1.5	1.5	1.5	1.3	1.1	0.0
170.0	1.1	1.3	1.5	1.7	1.5	1.5	1.3
160.0	1.3	1.5	1.3	1.7	1.5	1.5	1.7
150.0	1.5	1.5	1.3	1.1	1.3	1.1	1.3
140.0	1.5	1.7	1.7	1.7	1.7	1.7	1.7
130.0	1.3	1.5	1.5	1.3	1.3	1.1	1.3
120.0	1.5	1.7	1.7	1.3	1.3	1.1	1.1
110.0	1.3	1.5	1.7	1.8	1.5	1.5	1.3
100.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90.0	1.7	1.1	1.1	1.3	1.1	1.3	1.3
80.0	1.3	1.3	1.3	1.7	1.7	1.5	1.5
70.0	1.5	1.7	1.7	1.7	1.7	1.7	1.7
60.0	1.7	1.7	1.7	1.5	1.7	1.7	1.5
50.0	1.7	1.7	1.5	1.3	1.1	1.3	1.1
40.0	1.7	1.5	1.3	1.1	1.1	1.3	1.7
30.0	1.7	1.5	1.7	1.5	1.5	1.7	1.7
20.0	1.3	1.5	1.1	1.3	1.3	1.3	0.9
10.0	1.5	1.7	1.5	1.5	1.5	1.3	1.3
0.0	1.7	1.7	1.5	1.3	1.3	1.1	1.3

Equipment: GMS1800
Temperature(°C): 25.0

Date:
Humidity(%): 50.0%

Operator: Roy Kao
Distance(m): 13.6



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1. Luminaire Specification :

- (1) Input Voltage/Frequency : 110 V ac / 60Hz
- (2) Input Watt : 55 W
- (3) Input Current : 0.502 A
- (4) Total Luminous Flux Output : 3664.35 lm
- (5) Luminaire Efficacy : 66.625 lm/W
- (6) Central Intensity (cd): 1068.605
- (7) Maximum Intensity(cd): 1169.630
- (8) PF: 0.996
- (9) Beam angle: (C0-C180) 128.88 (C90-C270) 128.5

2. Description of EUT Setup :

- (1) Operating Orientation : The light source is considered as horizontal.
- (2) Light Source : LED
- (3) Stabilization time : 1 Hour
- (4) Environment Condition : Temperature: 25 ± 1 °C , Humidity: $55\pm 10\%$



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4. Photograph of EUT :





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5. Equipments List:

L204	Goniophotometer	SENSING	GMS1800	N/A	N/A
L205	GMS-1800B Goniophotometer System	SENSING		N/A	N/A
L206	AC Power Source	Twintex	TFC 500VA	N/A	N/A
L207	UI2008 Power Meter	SENSING	UI2008	2010/10/1	2011/10/1

