

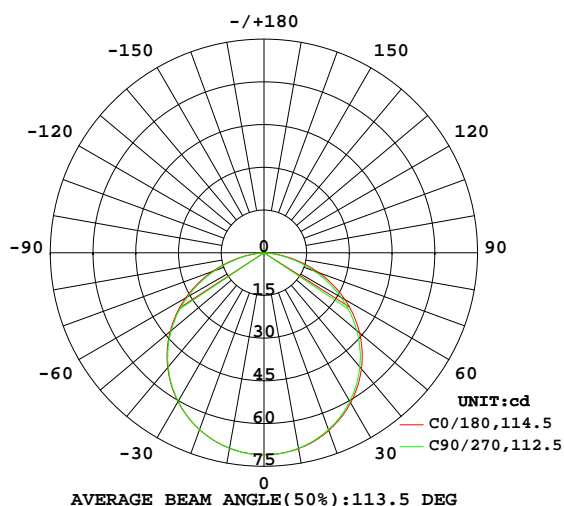
WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

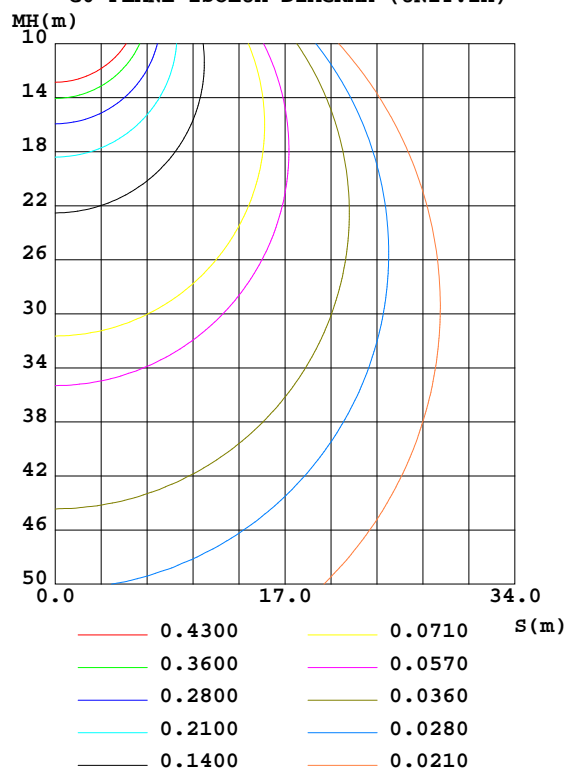
Test:U:220.04V I:0.0453A P:9.3071W PF:0.9344 Freq:50.00Hz Lamp Flux:202.519x1 lm		
NAME: WL5105-LD10E-30	TYPE:砖块灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 21.76 lm/W			
MODEL		Imax(cd)	71.12	S/MH(C0/180)	1.27
NOMINAL POWER(W)	NA	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	202.52	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	202.519	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Oliver
Test Date:2017-02-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:58%
Test Distance:2.490m [K=1.0000]
Remarks:

WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum
10	69.72	69.75	69.73	69.83	69.87	69.85	69.76	69.78	0- 10	6.719	6.719	3.32
20	66.13	66.11	66.13	66.34	66.48	66.33	66.12	66.18	10- 20	19.28	26.00	12.8
30	60.38	60.27	60.26	60.55	60.87	60.61	60.24	60.37	20- 30	29.32	55.32	27.3
40	52.64	52.45	52.36	52.76	53.25	52.87	52.34	52.56	30- 40	35.53	90.85	44.9
50	43.04	42.78	42.55	43.16	43.84	43.25	42.55	42.90	40- 50	37.04	127.9	63.2
60	31.79	31.39	30.96	31.83	32.76	32.03	31.17	31.64	50- 60	33.51	161.4	79.7
70	19.24	18.64	18.24	19.19	20.50	19.59	18.71	19.15	60- 70	25.23	186.6	92.2
80	6.744	6.192	5.926	6.588	7.785	6.997	6.304	6.568	70- 80	13.47	200.1	98.8
90	0	0	0	0	0	0	0	0	80- 90	2.382	202.5	100
100	0	0	0	0	0	0	0	0	90-100	0	202.5	100
110	0	0	0	0	0	0	0	0	100-110	0	202.5	100
120	0	0	0	0	0	0	0	0	110-120	0	202.5	100
130	0	0	0	0	0	0	0	0	120-130	0	202.5	100
140	0	0	0	0	0.0086	0.0117	0.0099	0.0095	130-140	0.0015	202.5	100
150	0.0203	0.0052	0.0056	0.0052	0.0194	0.0216	0.0199	0.0212	140-150	0.0061	202.5	100
160	0.0121	0.0125	0.0137	0.0116	0.0280	0.0277	0.0286	0.0298	150-160	0.0082	202.5	100
170	0.0173	0.0173	0.0190	0.0177	0.0280	0.0277	0.0289	0.0302	160-170	0.0062	202.5	100
180	0.0285	0.0264	0.0268	0.0281	0.0259	0.0285	0.0281	0.0285	170-180	0.0025	202.5	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 109.49 lm

%lum = 54.1%

%lamp = 54.1%

Conical surface Flux(120deg): 161.41 lm

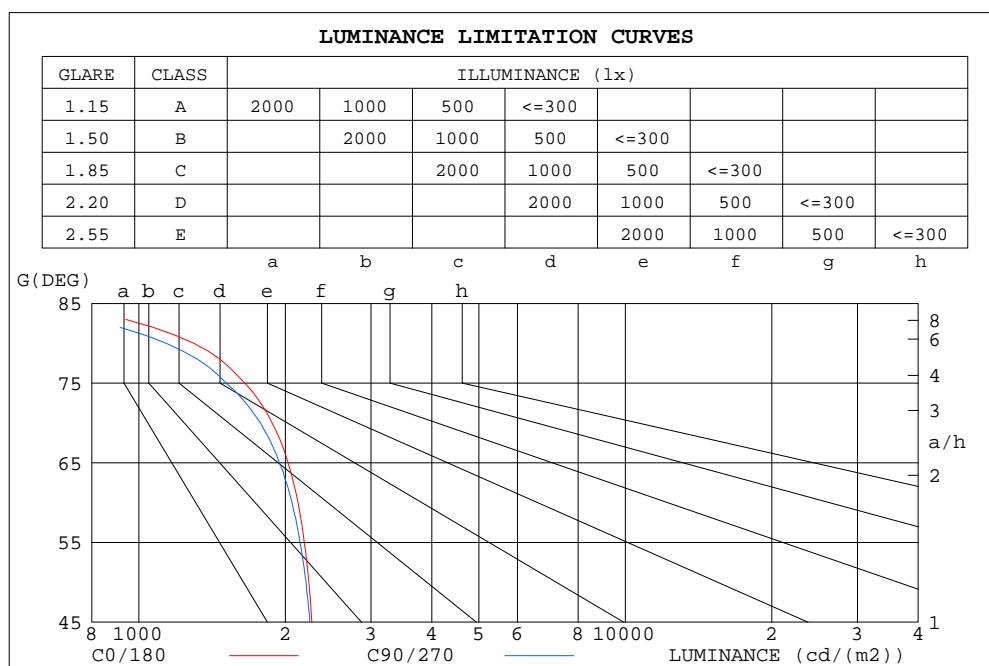
%lum = 79.7%

%lamp = 79.7%

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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:58%
Test Distance:2.490m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	610	491
80	1297	1138
75	1652	1511
70	1878	1778
65	2027	1946
60	2123	2064
55	2188	2145
50	2236	2207
45	2269	2246

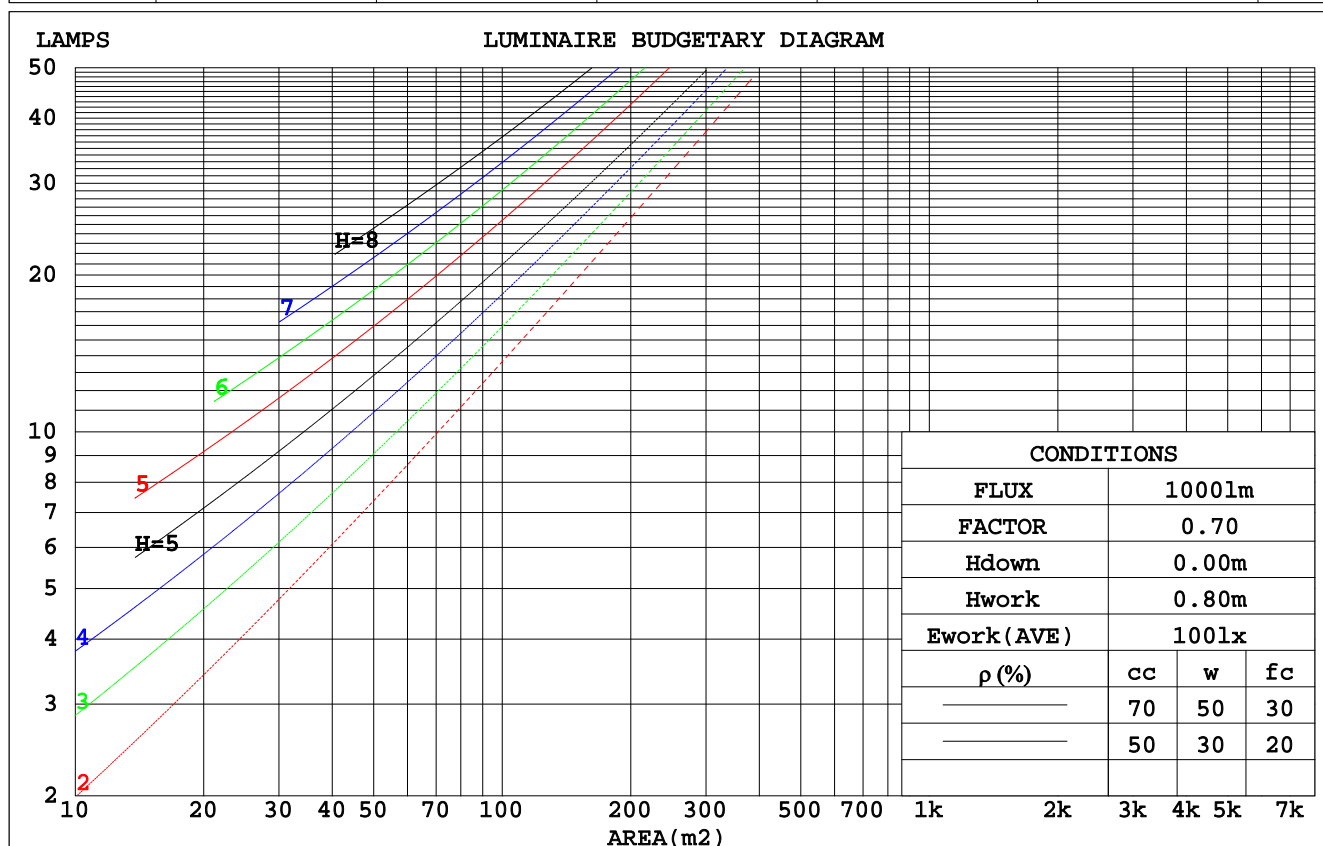
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γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:58%
Test Distance:2.490m [K=1.0000]
Remarks:

WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38
7.0	.51	.43	.36	.51	.42	.36	.49	.41	.36	.48	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 58%
 Test Distance: 2.490m [K=1.0000]
 Remarks:

WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.301	.171	.054	.294	.168	.053	.281	.161	.052	.269	.155	.050	.258	.149	.048		
2.0	.287	.157	.048	.281	.155	.048	.269	.150	.047	.259	.145	.045	.249	.141	.044		
3.0	.267	.142	.043	.262	.140	.042	.252	.136	.041	.242	.133	.041	.233	.129	.040		
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036		
5.0	.229	.117	.034	.225	.115	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032		
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.030		
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027		
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.099	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.141	.099	.065	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
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 Test Date:2017-02-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:58%
 Test Distance:2.490m [K=1.0000]
 Remarks:

WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.2	22.7	21.5	22.9	23.1	21.1	22.6	21.3	22.8	23.0
3H	22.7	24.1	23.0	24.3	24.5	22.5	23.9	22.8	24.1	24.3
4H	23.2	24.5	23.5	24.8	25.0	22.9	24.3	23.3	24.5	24.8
6H	23.5	24.8	23.8	25.0	25.3	23.2	24.5	23.5	24.7	25.0
8H	23.6	24.8	23.9	25.0	25.3	23.2	24.4	23.6	24.7	25.0
12H	23.5	24.7	23.9	25.0	25.3	23.2	24.4	23.6	24.7	25.0
4H 2H	21.8	23.1	22.1	23.4	23.6	21.7	23.0	22.0	23.3	23.5
3H	23.4	24.6	23.8	24.9	25.2	23.2	24.4	23.6	24.7	25.0
4H	24.0	25.1	24.4	25.4	25.8	23.8	24.9	24.2	25.2	25.5
6H	24.5	25.4	24.9	25.7	26.1	24.2	25.1	24.6	25.5	25.8
8H	24.5	25.4	25.0	25.8	26.2	24.2	25.1	24.6	25.5	25.9
12H	24.6	25.4	25.0	25.7	26.1	24.2	25.0	24.7	25.4	25.8
8H 4H	24.2	25.1	24.6	25.5	25.9	24.0	24.9	24.4	25.3	25.7
6H	24.8	25.5	25.2	25.9	26.3	24.5	25.2	24.9	25.6	26.0
8H	24.9	25.5	25.3	25.9	26.4	24.6	25.2	25.0	25.6	26.1
12H	24.9	25.5	25.4	25.9	26.4	24.6	25.2	25.1	25.6	26.1
12H 4H	24.2	25.0	24.7	25.4	25.8	24.0	24.8	24.5	25.2	25.6
6H	24.8	25.4	25.2	25.8	26.3	24.5	25.1	25.0	25.6	26.0
8H	24.9	25.5	25.4	25.9	26.4	24.6	25.2	25.1	25.6	26.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 202.5 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -5.5$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 58%
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WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

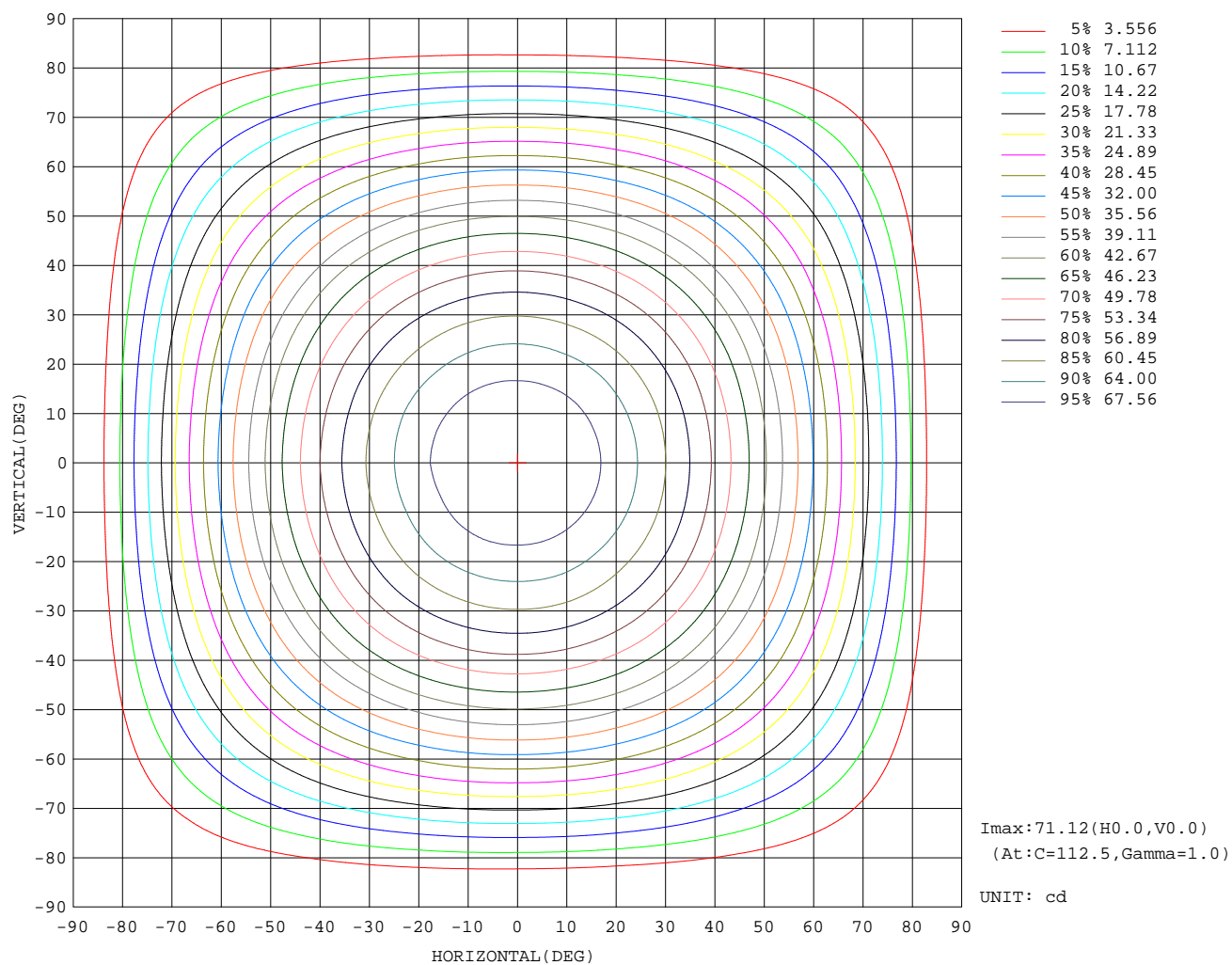
UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	90	100	94	89	96	91	87	79
4.00	107	101	96	104	99	95	100	96	92	84
5.00	109	104	100	107	102	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

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 Humidity: 58%
 Test Distance: 2.490m [K=1.0000]
 Remarks:

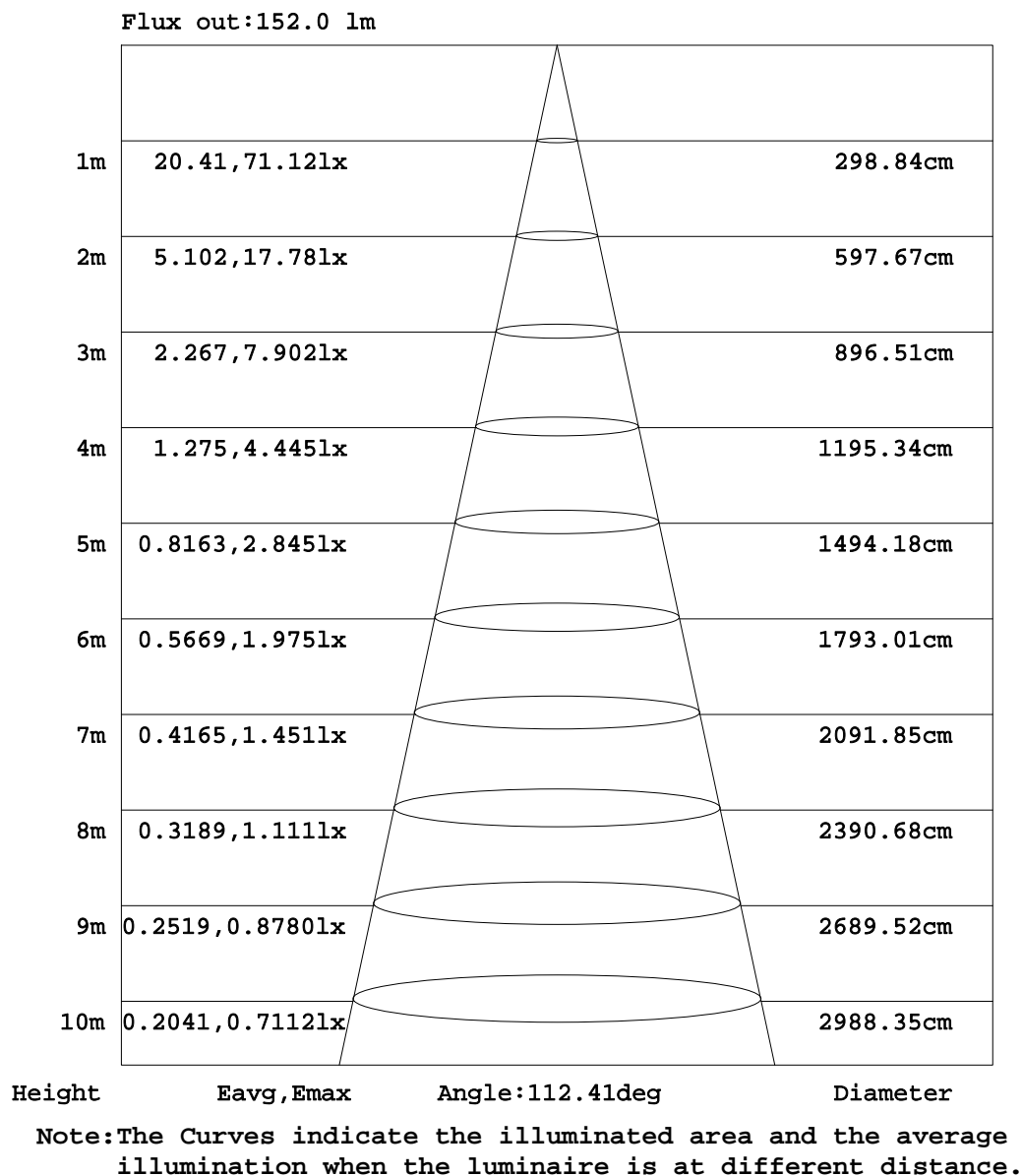
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
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Remarks:

AAI Figure

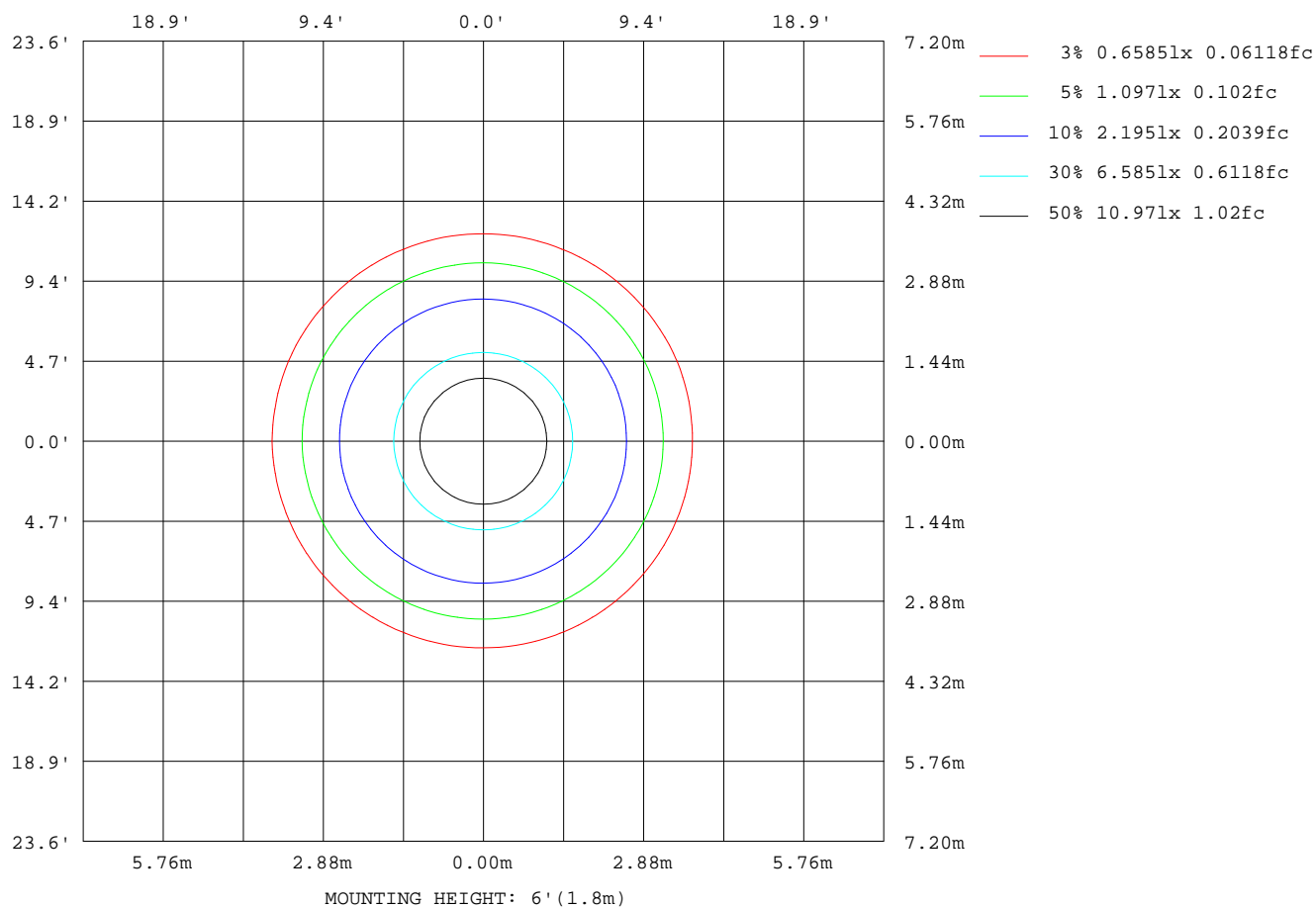


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WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM



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WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:220.04V I:0.0453A P:9.3071W PF:0.9344 Freq:50.00Hz Lamp Flux:202.519x1 lm		
NAME: WL5105-LD10E-30	TYPE:砖块灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

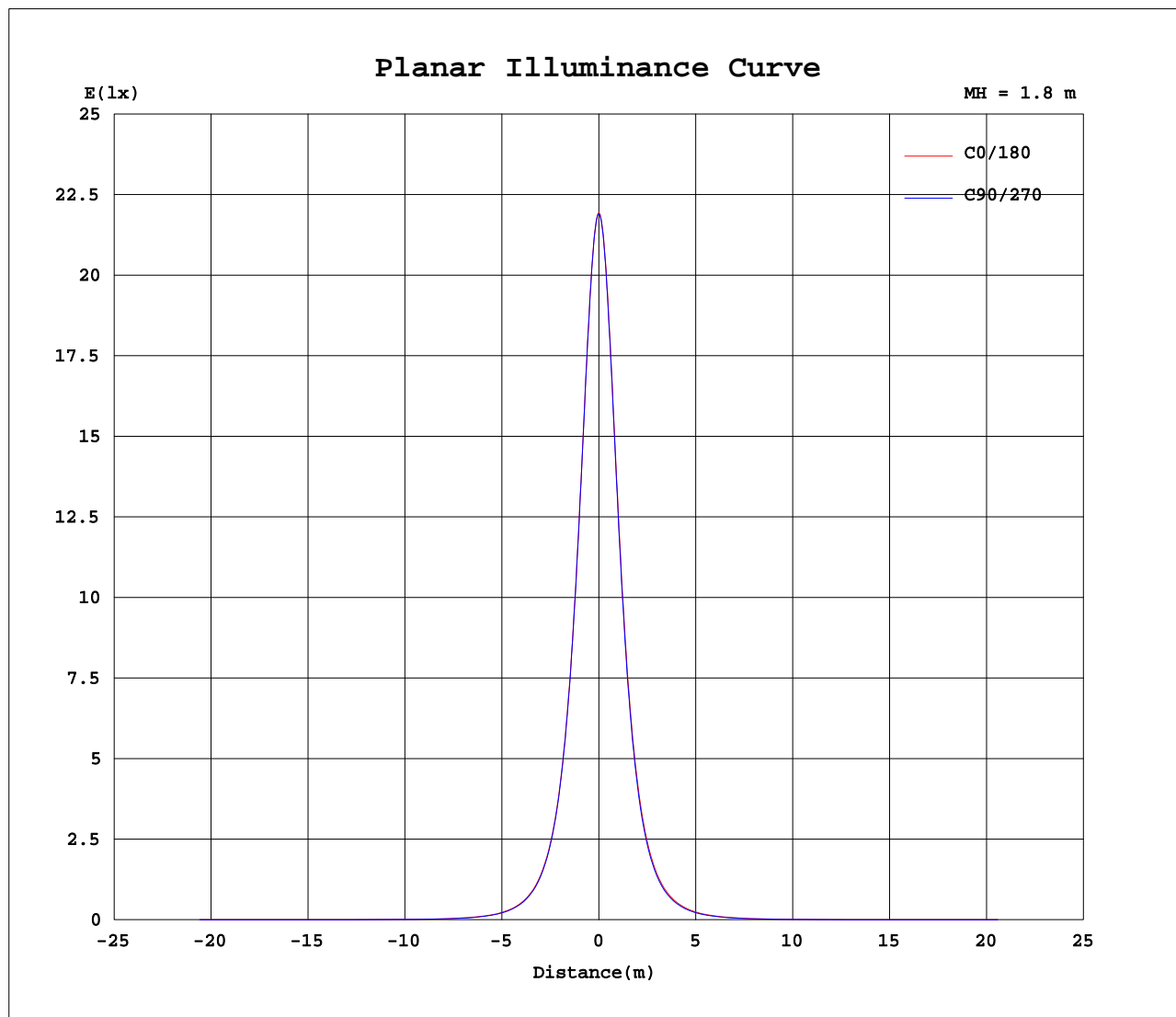
AvgL	cd/m2
L_0~180(65)av	2064
L_0~180(75)av	1729
L_0~180(85)av	756
L_90~270(65)av	1960
L_90~270(75)av	1548
L_90~270(85)av	516
L_45(65)av	2014
L_45(75)av	1630
L_45(85)av	587

Standard: GB/T 29293-2012

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Test Speed: HIGH
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Remarks:

Planar Illuminance Curve



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WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0			
5	70.6	70.7	70.7	70.6	70.6	70.8	70.7	70.7	70.6	70.8	70.8	70.7	70.7	70.8	70.7	70.7			
10	69.7	69.8	69.7	69.7	69.7	69.8	69.8	69.8	69.9	69.9	69.8	69.8	69.8	69.8	69.8	69.8			
15	68.2	68.2	68.3	68.2	68.2	68.4	68.3	68.2	68.4	68.5	68.5	68.2	68.2	68.4	68.3	68.3			
20	66.1	66.1	66.1	66.1	66.1	66.2	66.3	66.3	66.5	66.5	66.3	66.2	66.1	66.2	66.2	66.2			
25	63.5	63.6	63.6	63.5	63.4	63.7	63.7	63.7	63.9	64.0	63.8	63.5	63.5	63.6	63.5	63.6			
30	60.4	60.4	60.3	60.3	60.3	60.4	60.5	60.7	60.9	60.8	60.6	60.4	60.2	60.3	60.4	60.5			
35	56.7	56.7	56.7	56.5	56.5	56.8	56.9	57.0	57.2	57.2	57.0	56.7	56.5	56.6	56.7	56.9			
40	52.6	52.6	52.4	52.4	52.4	52.6	52.8	53.0	53.3	53.1	52.9	52.5	52.3	52.4	52.6	52.7			
45	48.1	48.0	47.9	47.6	47.6	48.0	48.1	48.3	48.7	48.6	48.3	47.9	47.7	47.8	47.9	48.2			
50	43.0	43.0	42.8	42.5	42.5	42.8	43.2	43.4	43.8	43.7	43.3	42.8	42.6	42.7	42.9	43.2			
55	37.6	37.5	37.3	36.9	36.9	37.3	37.7	38.0	38.4	38.3	37.9	37.3	37.0	37.2	37.5	37.8			
60	31.8	31.7	31.4	31.0	31.0	31.3	31.8	32.3	32.8	32.6	32.0	31.5	31.2	31.3	31.6	32.0			
65	25.7	25.5	25.1	24.7	24.7	25.1	25.6	26.1	26.7	26.5	25.9	25.3	25.0	25.1	25.5	26.0			
70	19.2	19.1	18.6	18.3	18.2	18.6	19.2	19.8	20.5	20.3	19.6	19.0	18.7	18.8	19.2	19.7			
75	12.8	12.6	12.1	11.8	11.7	12.1	12.7	13.3	14.0	13.8	13.1	12.6	12.3	12.4	12.7	13.2			
80	6.74	6.54	6.19	5.92	5.93	6.20	6.59	7.18	7.78	7.50	7.00	6.53	6.30	6.33	6.57	6.90			
85	1.59	1.46	1.11	1.22	1.28	1.41	1.57	1.62	2.36	2.18	1.90	1.63	1.41	1.43	1.56	1.71			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
145	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
150	0.02	0.02	0.01	0.00	0.01	0.01	0.01	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03			
155	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03			
160	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
165	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
170	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
175	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
180	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Oliver
Test Date: 2017-02-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 58%
Test Distance: 2.490m [K=1.0000]
Remarks: