

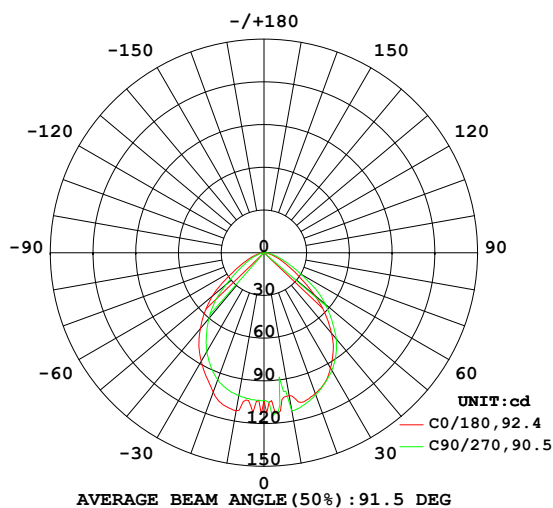
WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

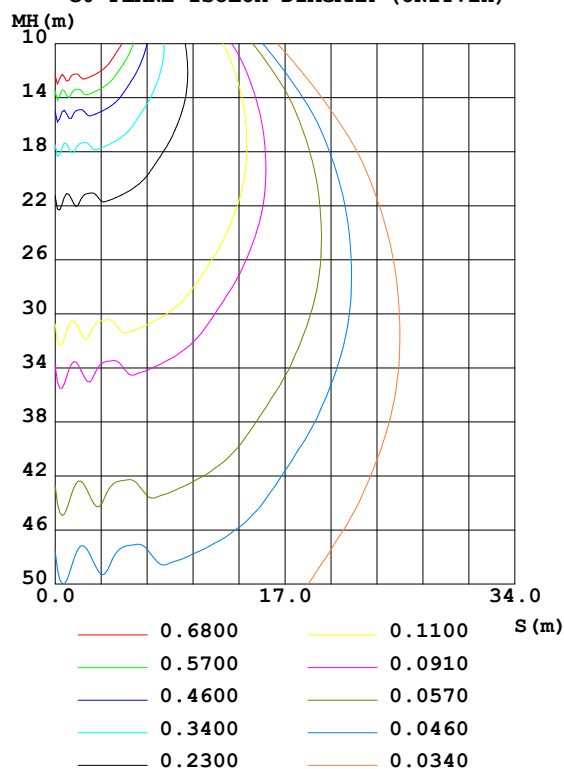
Test:U:120.06V I:0.1069A P:7.0099W PF:0.5462 Freq:60.00Hz Lamp Flux:230.378x1 lm		
NAME: 6053-30BZ	TYPE:Landscapae path light	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 32.86 lm/W			
MODEL	SEOUL STW9Q14C	I _{max} (cd)	115.4	S/MH (C0/180)	1.28
NOMINAL POWER (W)	NA	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	230.38	η UP,DN (C0-180)	0.0,45.4
NOMINAL FLUX (lm)	230.378	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,54.5
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	99.9	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:2020-11-03

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	112.7	102.6	101.7	101.7	101.8	111.5	112.5	103.2	0- 10	10.14	10.14	4.4
20	104.2	103.0	94.85	95.66	105.1	99.31	106.0	93.33	10- 20	29.59	39.73	17.2
30	88.04	87.69	80.21	84.11	93.40	90.86	95.31	88.75	20- 30	44.21	83.95	36.4
40	69.56	67.59	60.12	62.35	73.70	75.85	78.90	67.45	30- 40	49.91	133.9	58.1
50	47.30	37.93	34.72	35.72	46.39	51.80	56.12	55.98	40- 50	45.28	179.1	77.8
60	21.57	15.94	15.28	14.67	21.32	25.21	29.70	26.45	50- 60	29.17	208.3	90.4
70	9.365	6.584	6.112	6.147	9.035	10.87	13.24	11.13	60- 70	14.21	222.5	96.6
80	3.213	1.993	1.581	1.786	2.987	4.225	5.093	4.352	70- 80	6.069	228.6	99.2
90	0.0580	0.0520	0.0614	0.0651	0.1520	0.7544	1.051	0.2476	80- 90	1.632	230.2	99.9
100	0.0083	0.0048	0.0105	0.0169	0.0309	0.0344	0.0289	0.0171	90-100	0.0757	230.3	100
110	0	0	0	0	0	0	0	0	100-110	0.0055	230.3	100
120	0	0	0	0	0	0	0	0	110-120	0	230.3	100
130	0	0	0	0	0.0108	0.0087	0.0070	0.0065	120-130	0.0007	230.3	100
140	0.0103	0.0134	0.0121	0.0121	0.0302	0.0281	0.0282	0.0281	130-140	0.0090	230.3	100
150	0.0259	0.0259	0.0273	0.0267	0.0483	0.0466	0.0464	0.0466	140-150	0.0179	230.3	100
160	0.0388	0.0388	0.0386	0.0401	0.0565	0.0540	0.0572	0.0573	150-160	0.0195	230.4	100
170	0.0513	0.0483	0.0529	0.0525	0.0638	0.0617	0.0637	0.0664	160-170	0.0146	230.4	100
180	0.0625	0.0638	0.0663	0.0668	0.0634	0.0622	0.0659	0.0663	170-180	0.0059	230.4	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 157.88 lm

%lum = 68.5%

%lamp = 68.5%

Conical surface Flux(120deg): 208.32 lm

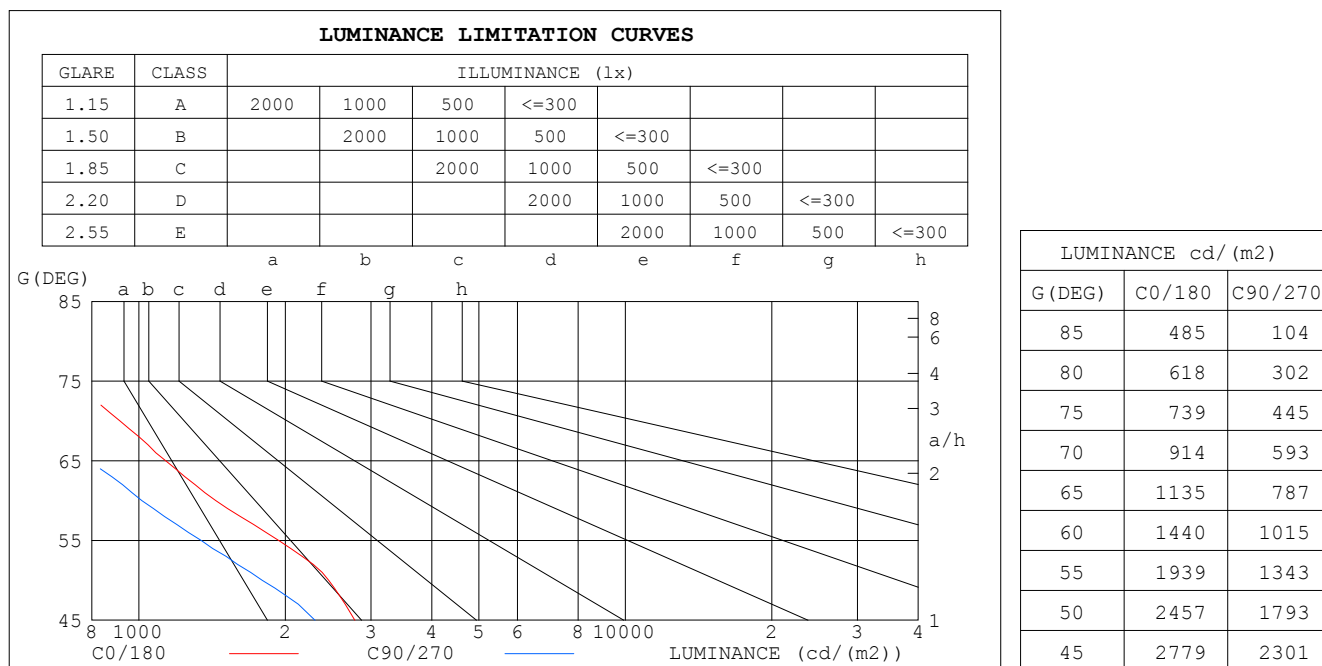
%lum = 90.4%

%lamp = 90.4%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Oliver
Test Date:2020-11-03

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:

LUMINANCE LIMITATION CURVES



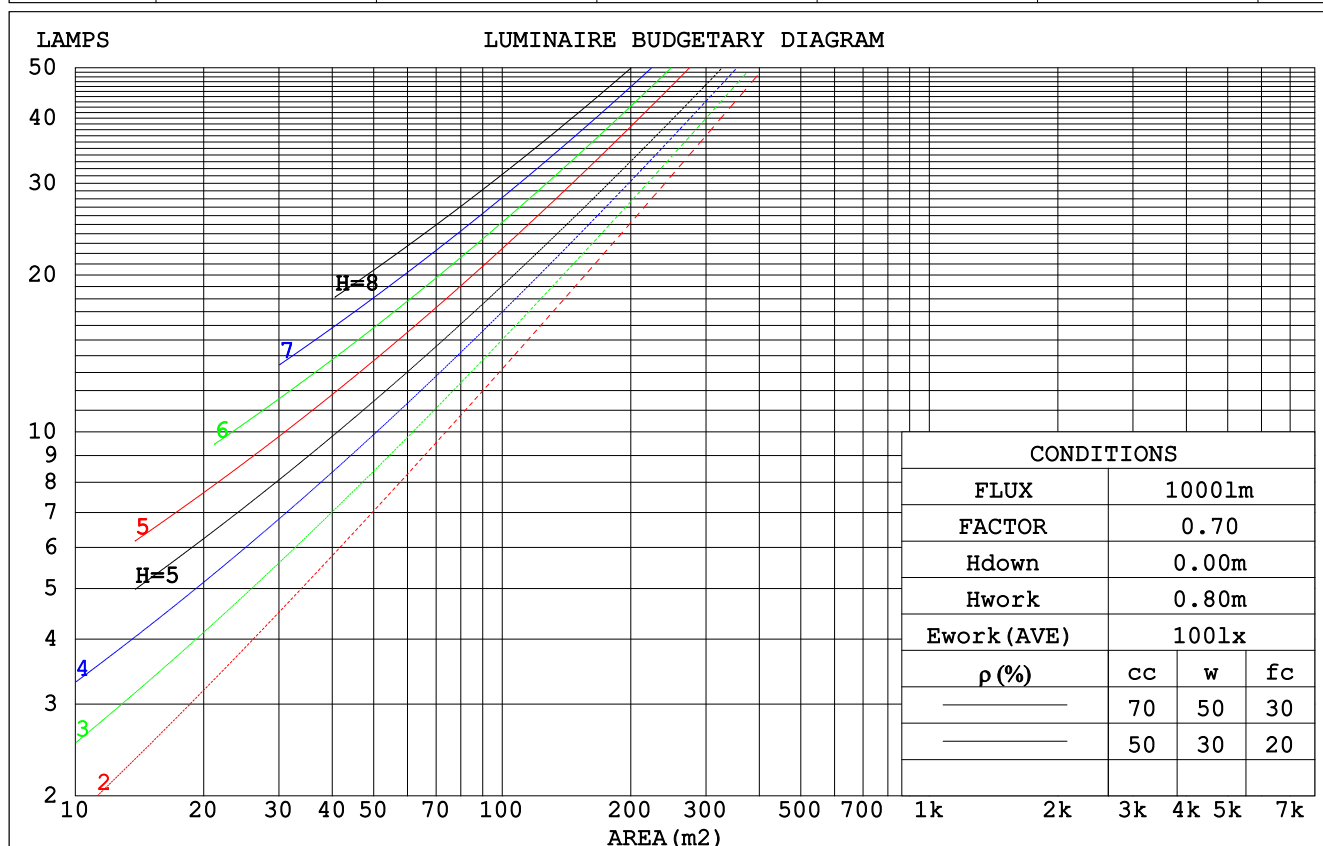
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Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 58%
Test Distance: 2.490m [K=1.0000]
Remarks:

WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.94	.93	.93	.91	.90	.88
2.0	.95	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.73	.84	.77	.72	.81	.76	.71	.78	.74	.70	.76	.72	.69	.67
4.0	.77	.69	.63	.76	.68	.63	.73	.67	.62	.71	.66	.61	.69	.64	.60	.58
5.0	.70	.62	.56	.68	.61	.55	.66	.60	.55	.65	.59	.54	.63	.58	.54	.52
6.0	.63	.55	.49	.62	.55	.49	.61	.54	.49	.59	.53	.48	.57	.52	.48	.46
7.0	.58	.50	.44	.57	.49	.44	.55	.49	.44	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.40	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.35	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31



C Range: 0 - 360DEG
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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

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	.253	.144	.046	.246	.140	.045	.233	.134	.043	.221	.127	.041	.210	.122	.039		
2.0	.244	.134	.041	.238	.131	.040	.227	.126	.039	.216	.121	.038	.207	.117	.037		
3.0	.231	.123	.037	.226	.121	.036	.216	.117	.036	.207	.113	.035	.198	.110	.034		
4.0	.217	.113	.033	.213	.111	.033	.204	.108	.032	.196	.105	.032	.188	.102	.031		
5.0	.204	.104	.030	.200	.103	.030	.192	.100	.029	.185	.098	.029	.178	.095	.029		
6.0	.192	.096	.028	.188	.095	.027	.181	.093	.027	.175	.091	.027	.169	.089	.026		
7.0	.181	.089	.025	.177	.088	.025	.171	.087	.025	.165	.085	.025	.160	.083	.024		
8.0	.170	.083	.023	.167	.082	.023	.162	.081	.023	.157	.079	.023	.152	.078	.023		
9.0	.161	.078	.022	.158	.077	.022	.153	.076	.021	.149	.075	.021	.144	.073	.021		
10.0	.152	.073	.020	.150	.072	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020		

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	.177	.157	.139	.151	.135	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.166	.133	.104	.142	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.115	.080	.135	.099	.070	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.149	.101	.064	.128	.087	.055	.088	.061	.039	.051	.036	.023	.016	.012	.008	
5.0	.142	.090	.052	.122	.078	.045	.084	.054	.032	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.043	.116	.071	.037	.080	.049	.026	.047	.029	.016	.015	.009	.005	
7.0	.129	.074	.036	.111	.065	.032	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.069	.031	.106	.060	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.064	.027	.101	.055	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.112	.059	.024	.097	.052	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.8DEG
 Operators:Oliver
 Test Date:2020-11-03

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	19.0	20.4	19.3	20.6	20.8	18.0	19.4	18.3	19.6	19.7
3H	19.5	20.7	19.7	20.9	21.1	18.3	19.5	18.6	19.7	20.0
4H	19.6	20.8	19.9	21.0	21.2	18.3	19.5	18.6	19.7	20.0
6H	19.7	20.8	20.0	21.0	21.3	18.3	19.4	18.6	19.7	20.0
8H	19.7	20.7	20.0	21.0	21.3	18.3	19.3	18.6	19.6	19.9
12H	19.7	20.7	20.0	21.0	21.3	18.3	19.3	18.6	19.5	19.8
4H 2H	19.0	20.2	19.3	20.5	20.7	18.1	19.3	18.4	19.6	19.8
3H	19.6	20.6	19.9	20.9	21.2	18.5	19.5	18.9	19.8	20.1
4H	19.8	20.7	20.1	21.0	21.3	18.6	19.6	19.0	19.9	20.2
6H	19.9	20.7	20.3	21.1	21.4	18.7	19.5	19.1	19.8	20.2
8H	20.0	20.7	20.4	21.1	21.5	18.7	19.4	19.1	19.8	20.2
12H	20.0	20.7	20.4	21.1	21.5	18.6	19.3	19.1	19.7	20.1
8H 4H	19.7	20.5	20.2	20.9	21.2	18.6	19.4	19.1	19.8	20.1
6H	20.0	20.6	20.4	21.0	21.4	18.7	19.3	19.2	19.7	20.2
8H	20.0	20.6	20.5	21.0	21.5	18.7	19.3	19.2	19.7	20.1
12H	20.1	20.6	20.6	21.0	21.5	18.7	19.2	19.2	19.6	20.1
12H 4H	19.7	20.4	20.1	20.8	21.2	18.6	19.3	19.0	19.7	20.1
6H	19.9	20.5	20.4	20.9	21.3	18.7	19.3	19.2	19.7	20.1
8H	20.0	20.5	20.5	20.9	21.4	18.7	19.2	19.2	19.6	20.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.8					+ 1.1 / - 1.3				
1.5H	+ 0.5 / - 0.9					+ 0.5 / - 0.8				
2.0H	+ 1.9 / - 2.1					+ 2.1 / - 1.8				

CIE Pub.117, 230.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.1)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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Operators:Oliver
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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

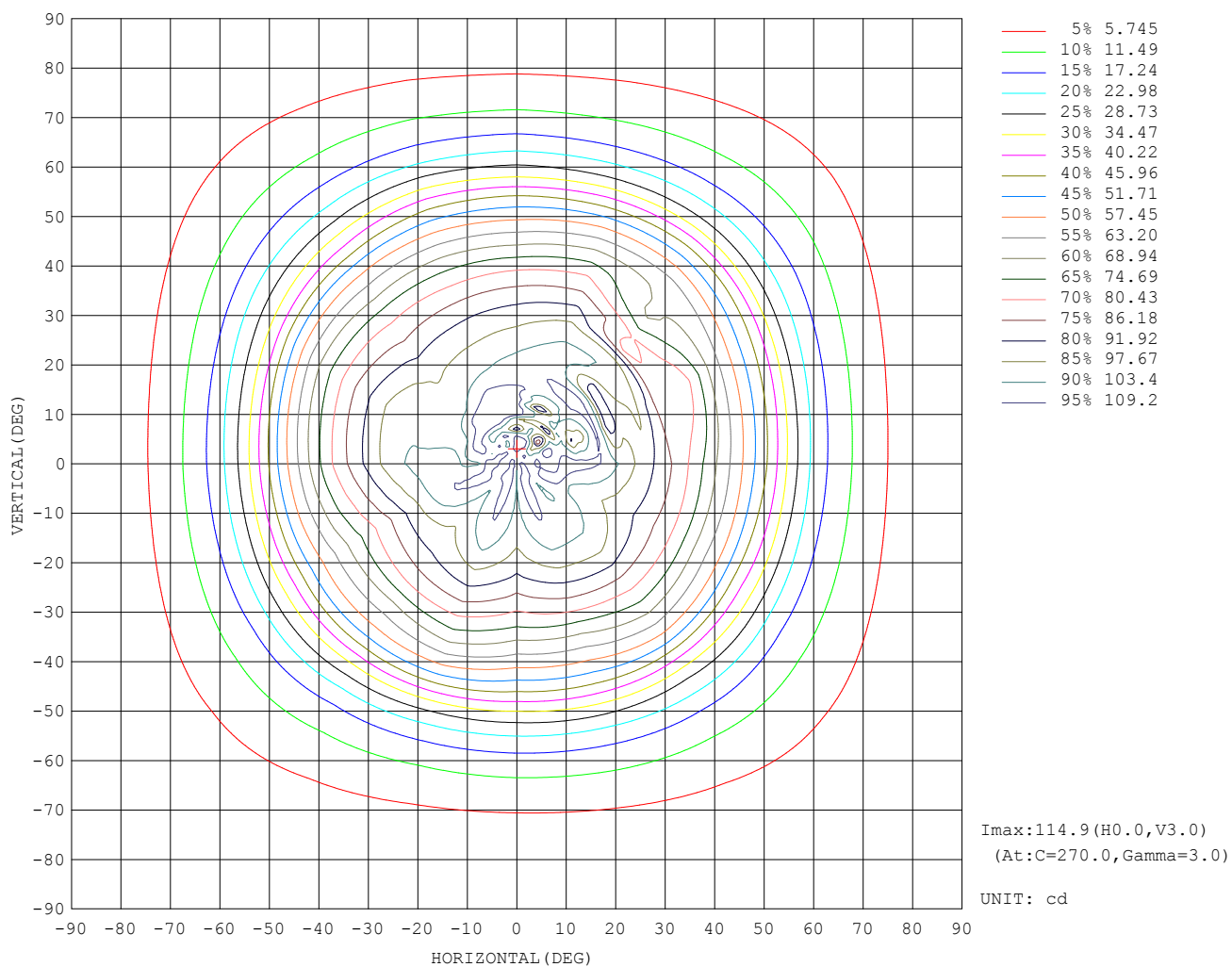
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	55	48	63	54	48	43
0.80	75	65	59	74	65	59	73	64	58	52
1.00	83	74	68	82	74	68	80	74	67	61
1.25	90	81	75	89	81	75	86	79	74	68
1.50	94	86	81	93	86	80	90	84	79	73
2.00	100	93	88	99	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	90
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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 Operators: Oliver
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 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 58%
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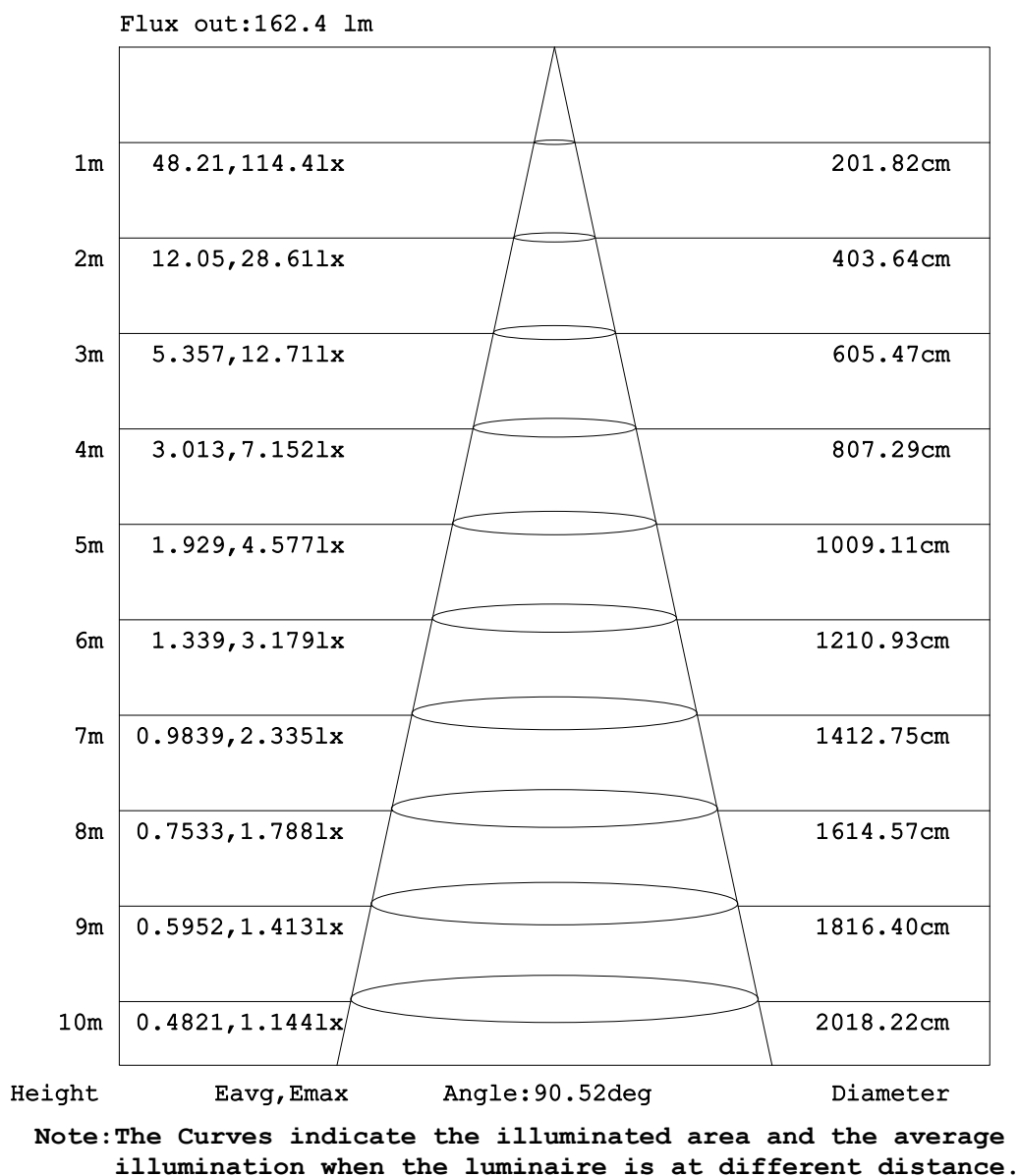
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
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Remarks:

AAI Figure

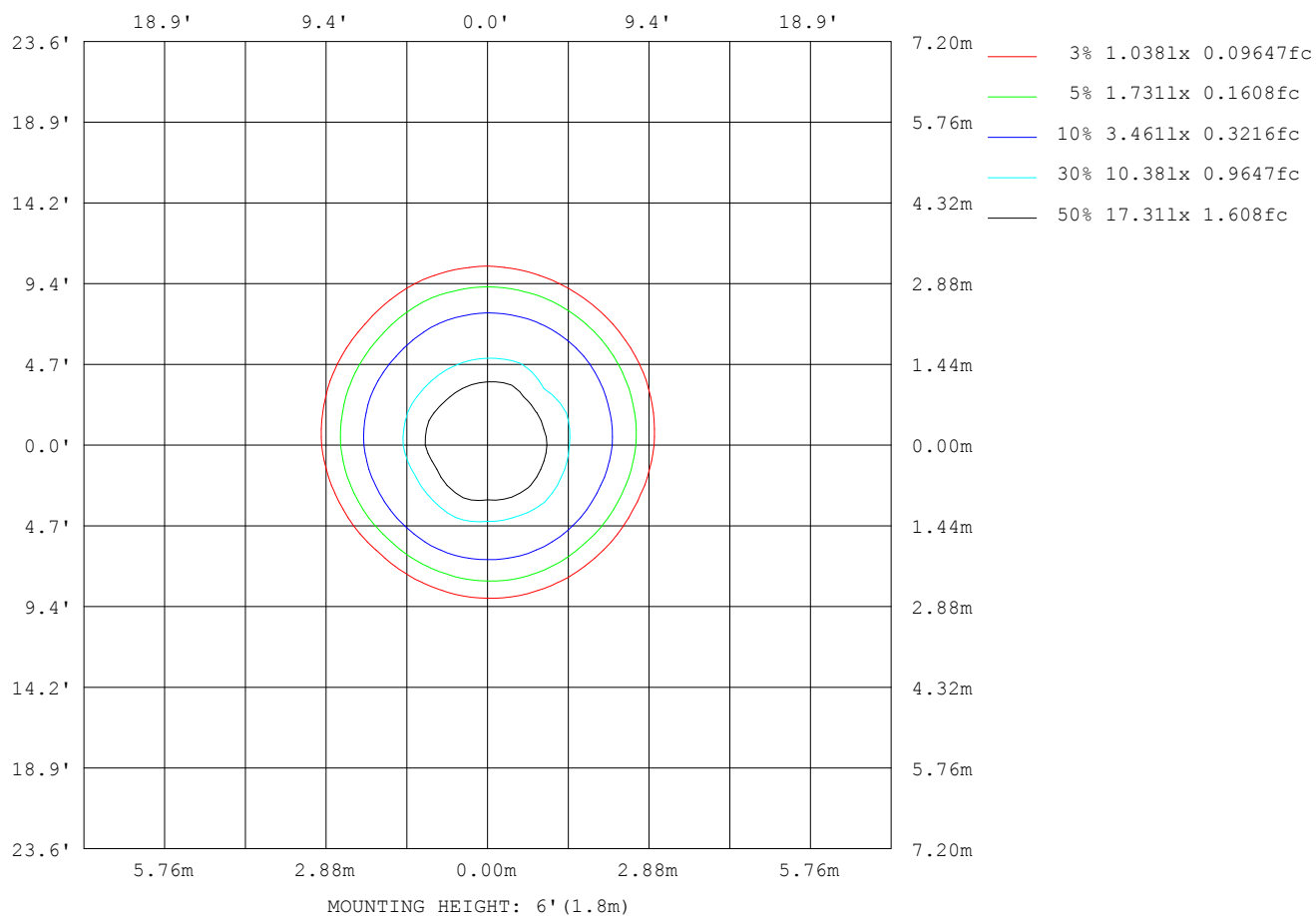


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WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM



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Remarks:

WAC Lighting GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.06V I:0.1069A P:7.0099W PF:0.5462 Freq:60.00Hz Lamp Flux:230.378x1 lm		
NAME: 6051-30BZ	TYPE:Landscape path light	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

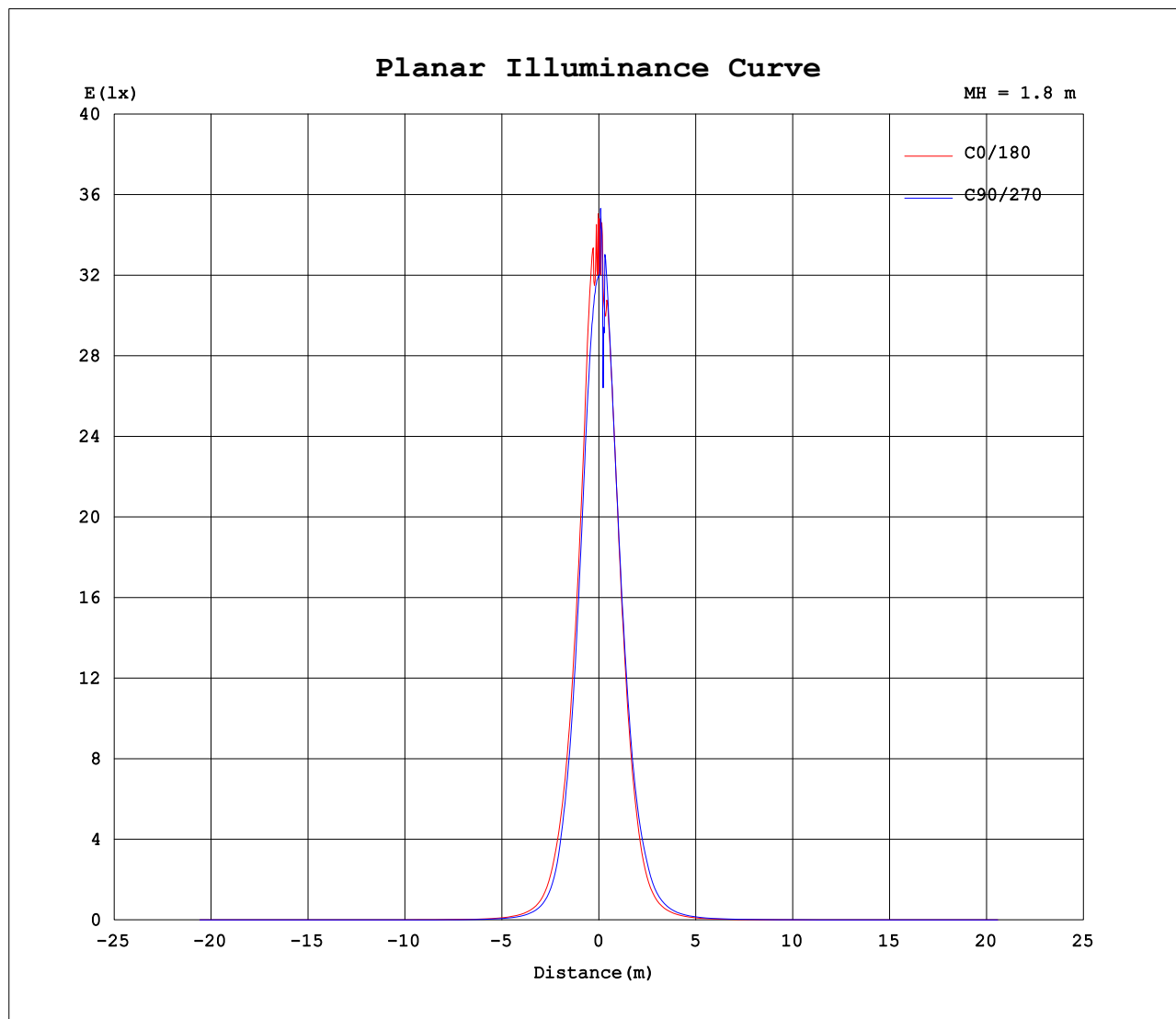
AvgL	cd/m2
L_0~180 (65) av	1130
L_0~180 (75) av	721
L_0~180 (85) av	487
L_90~270 (65) av	1182
L_90~270 (75) av	763
L_90~270 (85) av	581
L_45 (65) av	1057
L_45 (75) av	695
L_45 (85) av	514

Standard: GB/T 29293-2012

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Remarks:

Planar Illuminance Curve



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Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 58%
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Remarks:

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	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104			
5	108	111	103	113	104	112	106	107	113	103	111	102	113	110	94.4	105			
10	113	108	103	111	102	111	102	111	102	108	112	113	112	102	103	104			
15	111	100	106	107	99.4	107	99.1	108	108	99.2	102	111	110	107	108	100			
20	104	96.4	103	102	94.8	102	95.7	100.0	105	100	99.3	103	106	109	93.3	87.3			
25	96.0	92.8	96.6	93.4	88.4	94.5	91.3	91.1	101	102	95.9	98.2	101	105	103	96.8			
30	88.0	86.4	87.7	83.9	80.2	85.9	84.1	82.1	93.4	95.9	90.9	92.6	95.3	98.8	88.7	86.3			
35	79.7	78.6	78.1	72.0	70.7	75.9	73.1	73.6	84.8	87.6	83.6	85.5	88.0	89.8	78.1	83.7			
40	69.6	66.9	67.6	61.5	60.1	64.9	62.3	63.9	73.7	77.7	75.8	76.8	78.9	81.0	67.4	75.7			
45	58.9	56.0	54.4	50.0	49.0	51.4	51.2	53.6	60.9	65.9	64.3	66.6	67.5	70.1	67.1	62.7			
50	47.3	41.1	37.9	36.2	34.7	35.0	35.7	39.7	46.4	51.1	51.8	54.9	56.1	57.9	56.0	50.9			
55	33.3	28.0	24.9	23.7	23.2	22.5	23.0	27.2	31.9	35.1	37.1	42.2	43.8	43.2	41.4	37.9			
60	21.6	17.7	15.9	15.6	15.3	14.5	14.7	17.3	21.3	23.8	25.2	28.6	29.7	28.3	26.5	24.7			
65	14.4	11.7	10.4	10.3	10.02	9.52	9.70	11.4	14.3	15.3	16.6	18.8	20.0	18.4	16.9	16.3			
70	9.36	7.53	6.58	6.33	6.11	5.91	6.15	7.18	9.04	9.92	10.9	12.6	13.2	12.2	11.1	10.8			
75	5.73	4.64	3.92	3.62	3.47	3.39	3.62	4.27	5.47	6.21	6.93	8.05	8.39	7.81	7.12	6.69			
80	3.21	2.51	1.99	1.72	1.58	1.58	1.79	2.17	2.99	3.63	4.22	4.88	5.09	4.84	4.35	3.92			
85	1.27	0.68	0.37	0.26	0.27	0.30	0.44	0.70	1.28	1.76	2.21	2.62	2.77	2.67	2.35	1.96			
90	0.06	0.05	0.05	0.06	0.06	0.06	0.07	0.06	0.15	0.41	0.75	1.02	1.05	0.66	0.25	0.04			
95	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.02			
100	0.01	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.00			
105	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	0.00	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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
135	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
140	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			
145	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
150	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
155	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
160	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.06	0.06	0.05	0.05	0.06	0.06	0.06	0.06			
165	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06			
170	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07			
175	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.07	0.07	0.07			
180	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.8DEG
Operators:Oliver
Test Date:2020-11-03

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: