

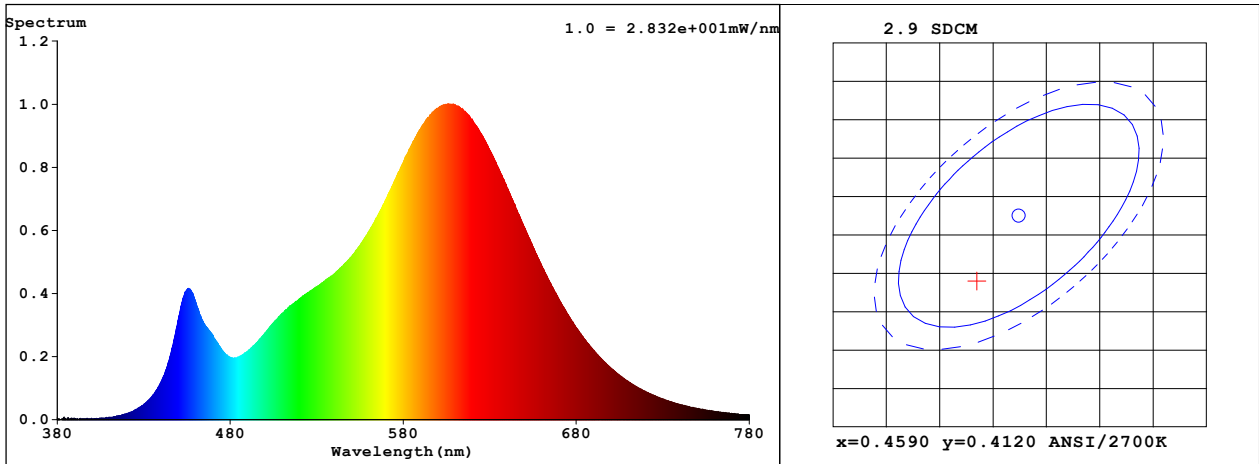
# Spectrum Test Report

Sample : Self-ballasted LED lamps Date : 2019-06-06 13:35:31  
Specification : A19-12-E26-827-ND Sam. Status : OK  
Sample No. : N19LEDGW54504-01 Instrument : HaasSuite(EVERFINE)  
Manufacturer : RAB Lighting Inc

## Test Condition

Temperature : 24.6Deg RH : 33.0%  
WL Range : 380nm-780nm IP : 47783 (73%)  
Test Mode : Accuracy Test T : 567 ms

## Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4556$   $y = 0.4052$  /  $u' = 0.2622$   $v' = 0.5246$  ( $duv = -1.85e-03$ )

CCT= 2718K Prcp WL: Ld=584.7nm Purity=58.4%

Peak WL: Lp=606nm FWHM: =111.7nm Ratio:R=25.3% G=72.2% B=2.6%

Render Index: Ra = 82.5

R1 =82 R2 =94 R3 =92 R4 =80 R5 =83 R6 =94 R7 =80  
R8 =57 R9 =9 R10=87 R11=80 R12=79 R13=85 R14=96 R15=74

## Photometric & Radiometric Parameters

Flux = 1291.4 lm Eff. : 119.78 lm/W Fe = 4.0079 W

Photosynthetic:PPF:18.734umol/s PAR WATT:3847.7mW(400-700nm)

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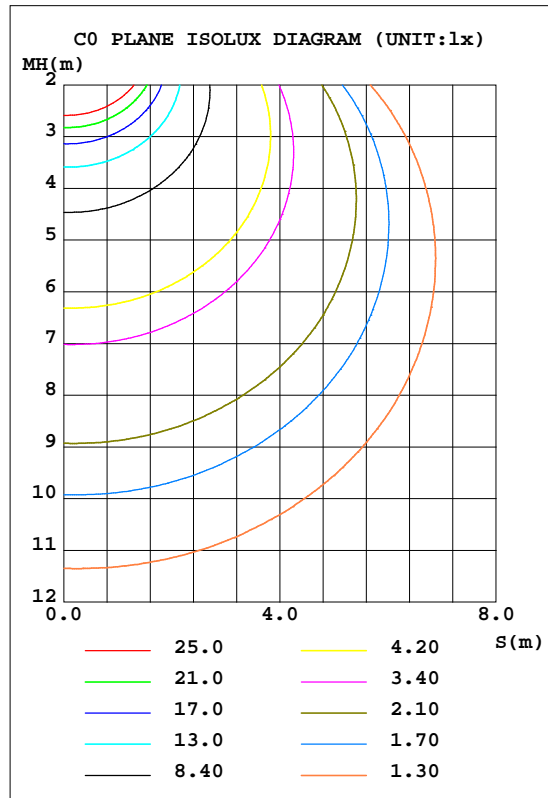
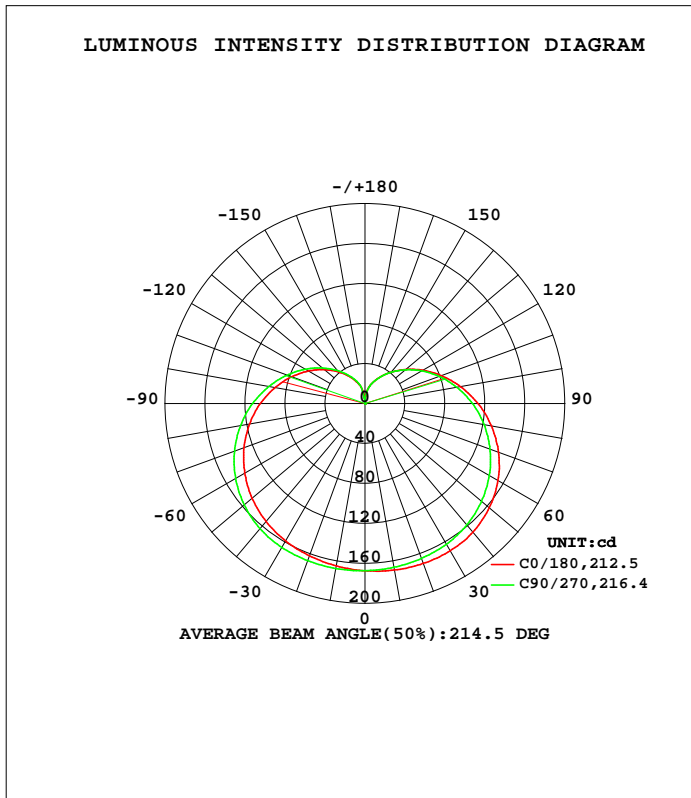
## Electrical parameters

V = 120.0 V I = 0.09281 A P = 10.78 W PF = 0.9677

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.70 lm/W			
MODEL	A19-12-E26-827-ND	I <sub>max</sub> (cd)	170.6	S/MH(C0/180)	1.44
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.51
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1313.4	h UP, DN(C0-180)	15.4, 34.2
NOMINAL FLUX(lm)	1313.44	CIE CLASS	SEMI-D.	h UP, DN(C180-360)	15.8, 34.6
LAMPS INSIDE	1	h up(%)	31.2	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)		h down(%)	68.8	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:DJQ  
 Test Date:2019-06-06

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	169.3	168.1	166.4	165.0	165.0	166.0	167.7	168.8	0- 10	15.95	15.95	1.21,1.21
20	170.3	168.2	165.0	162.4	162.2	164.3	167.3	169.9	10- 20	47.22	63.17	4.81,4.81
30	170.3	167.1	162.7	159.1	158.8	161.8	166.3	169.8	20- 30	76.55	139.7	10.6,10.6
40	167.9	164.0	158.6	154.5	154.1	157.8	163.4	167.4	30- 40	102.3	242.0	18.4,18.4
50	162.5	158.0	152.4	147.9	147.5	151.6	157.9	162.0	40- 50	122.4	364.4	27.7,27.7
60	153.7	149.2	143.7	139.2	139.0	143.1	149.5	153.6	50- 60	135.3	499.7	38,38
70	142.2	138.0	133.1	129.0	128.8	133.2	138.9	142.4	60- 70	140.1	639.8	48.7,48.7
80	128.4	125.0	120.9	117.3	117.2	121.5	126.4	129.0	70- 80	137.0	776.8	59.1,59.1
90	113.2	110.4	107.6	104.5	104.7	108.6	112.5	114.1	80- 90	127.0	903.8	68.8,68.8
100	97.31	95.27	93.69	91.33	91.64	94.97	97.97	98.58	90-100	111.6	1015	77.3,77.3
110	81.66	80.15	79.45	77.86	78.32	81.00	83.21	83.14	100-110	92.95	1108	84.4,84.4
120	66.83	65.85	65.62	64.77	65.35	67.33	68.88	68.33	110-120	73.09	1181	89.9,89.9
130	53.24	52.57	52.66	52.30	52.84	54.35	55.37	54.64	120-130	53.91	1235	94.1,94.1
140	41.22	40.71	40.97	40.88	41.40	42.53	43.20	42.37	130-140	36.88	1272	96.9,96.9
150	30.89	30.55	30.74	30.77	31.24	32.10	32.48	31.82	140-150	22.98	1295	98.6,98.6
160	22.05	21.82	21.82	21.97	22.41	23.07	23.18	22.73	150-160	12.51	1308	99.6,99.6
170	12.79	12.57	12.63	12.38	12.55	12.17	6.327	12.49	160-170	5.165	1313	100,100
180	0.0020	0.0017	0.0019	0.0020	0.0020	0.0019	0.0020	0.0019	170-180	0.5727	1313	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 301.12 lm

%lum = 22.9%  
 %lamp = 22.9%

Conical surface Flux(120deg): 499.67 lm

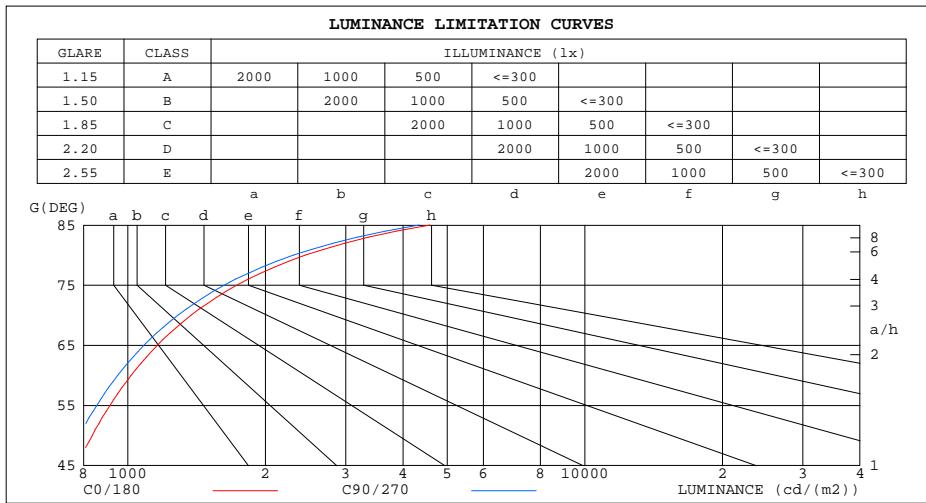
%lum = 38.0%  
 %lamp = 38.0%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:DJQ  
 Test Date:2019-06-06

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4587	4340
80	2444	2302
75	1731	1625
70	1374	1287
65	1160	1085
60	1016	950
55	914	855
50	836	784
45	774	728

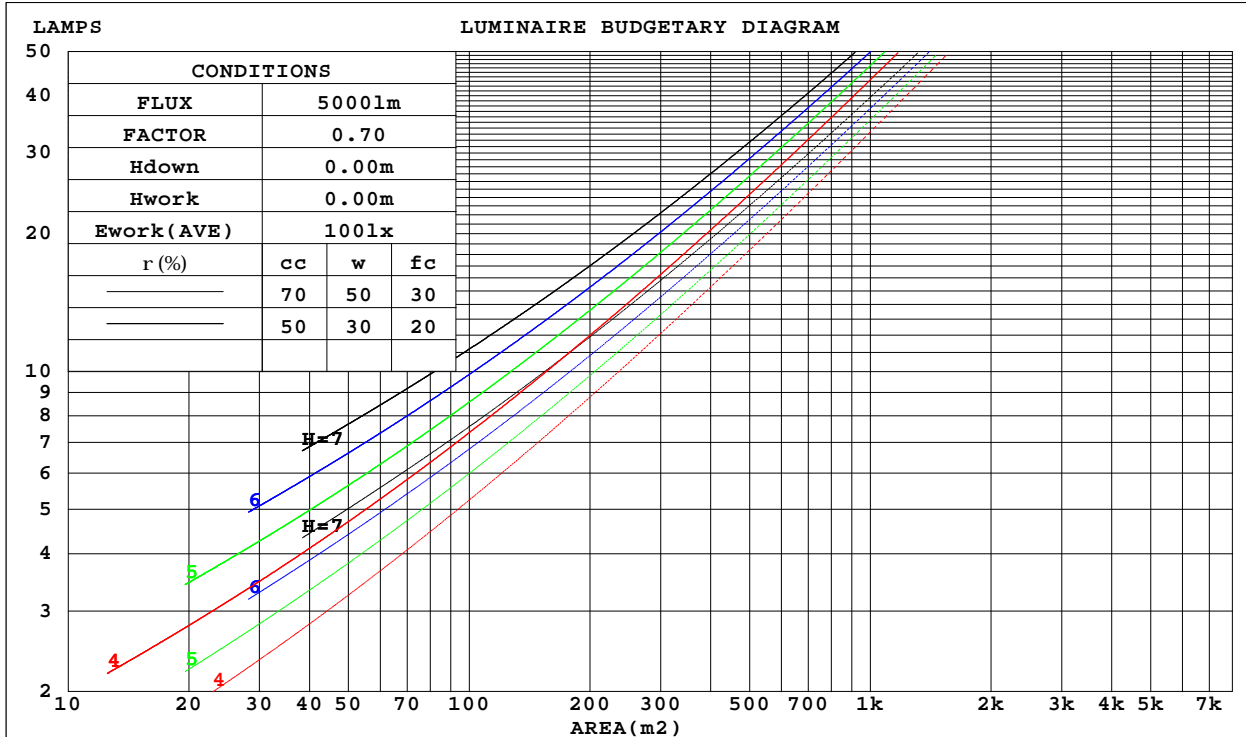
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 G Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.12	1.12	1.12	1.05	1.05	1.05	.94	.94	.94	.83	.83	.83	.73	.73	.73	.69
1.0	.91	.85	.80	.85	.80	.76	.75	.71	.67	.66	.63	.60	.57	.55	.53	.48
2.0	.77	.69	.62	.72	.65	.58	.63	.57	.52	.55	.51	.46	.48	.44	.41	.37
3.0	.66	.57	.49	.62	.54	.47	.55	.48	.42	.48	.42	.37	.41	.37	.33	.29
4.0	.58	.48	.41	.54	.45	.39	.48	.40	.35	.42	.36	.31	.36	.31	.27	.24
5.0	.51	.41	.34	.48	.39	.32	.42	.35	.29	.37	.31	.26	.32	.27	.23	.20
6.0	.45	.36	.29	.43	.34	.28	.38	.30	.25	.33	.27	.22	.29	.24	.20	.17
7.0	.41	.32	.25	.38	.30	.24	.34	.27	.22	.30	.24	.19	.26	.21	.17	.15
8.0	.37	.28	.22	.35	.27	.21	.31	.24	.19	.27	.21	.17	.24	.19	.15	.13
9.0	.34	.25	.19	.32	.24	.19	.28	.22	.17	.25	.19	.15	.22	.17	.13	.11
10.0	.31	.23	.17	.29	.22	.17	.26	.19	.15	.23	.17	.14	.20	.15	.12	.10



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:DJQ  
 Test Date:2019-06-06

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.417	.237	.075	.400	.228	.072	.368	.211	.068	.340	.196	.063	.313	.181	.058	
2.0	.351	.192	.059	.335	.185	.057	.307	.171	.053	.280	.157	.049	.256	.145	.046	
3.0	.307	.163	.049	.293	.157	.047	.267	.145	.044	.243	.133	.041	.220	.122	.038	
4.0	.273	.142	.042	.261	.136	.040	.237	.126	.038	.215	.115	.035	.194	.106	.032	
5.0	.247	.126	.036	.235	.121	.035	.214	.111	.033	.193	.102	.030	.174	.093	.028	
6.0	.225	.113	.032	.214	.108	.031	.194	.100	.029	.176	.091	.027	.158	.083	.025	
7.0	.207	.102	.029	.197	.098	.028	.179	.090	.026	.161	.083	.024	.145	.075	.022	
8.0	.191	.093	.026	.182	.090	.025	.165	.082	.024	.149	.076	.022	.134	.069	.020	
9.0	.178	.086	.024	.169	.083	.023	.154	.076	.022	.139	.070	.020	.125	.063	.018	
10.0	.166	.079	.022	.158	.076	.021	.143	.070	.020	.130	.064	.018	.117	.059	.017	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.428	.428	.428	.366	.366	.366	.250	.250	.250	.143	.143	.143	.046	.046	.046	
1.0	.427	.395	.366	.366	.339	.315	.250	.233	.218	.144	.135	.127	.046	.043	.041	
2.0	.421	.373	.332	.361	.321	.287	.247	.222	.200	.143	.129	.117	.046	.042	.038	
3.0	.414	.357	.312	.355	.308	.270	.244	.214	.190	.141	.125	.112	.045	.041	.037	
4.0	.406	.345	.298	.349	.298	.259	.240	.208	.182	.139	.122	.108	.045	.040	.035	
5.0	.399	.336	.289	.342	.290	.252	.236	.203	.178	.137	.119	.105	.044	.039	.035	
6.0	.391	.328	.283	.336	.284	.246	.232	.199	.174	.135	.117	.104	.043	.038	.034	
7.0	.384	.322	.278	.330	.279	.242	.228	.195	.172	.133	.115	.102	.043	.038	.034	
8.0	.377	.316	.274	.325	.274	.239	.225	.193	.170	.131	.114	.101	.042	.037	.033	
9.0	.371	.312	.271	.320	.270	.237	.221	.190	.168	.129	.112	.100	.042	.037	.033	
10.0	.365	.308	.269	.315	.267	.235	.218	.188	.167	.127	.111	.100	.041	.036	.033	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:DJQ  
 Test Date:2019-06-06

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm										
NAME: Self-ballasted LED lamps					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:N19LEDGW54504-01		
MFR.: /					SUR.:			Shielding Angle:		
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	9.9	11.1	10.5	11.8	12.7	9.6	10.9	10.3	11.6	12.4
3H	12.7	13.9	13.4	14.6	15.5	12.4	13.6	13.1	14.3	15.2
4H	14.3	15.4	15.0	16.2	17.0	14.0	15.1	14.7	15.8	16.7
6H	16.1	17.1	16.8	17.9	18.8	15.7	16.8	16.5	17.5	18.4
8H	17.0	18.1	17.8	18.8	19.7	16.7	17.7	17.4	18.5	19.4
12H	18.2	19.1	18.9	19.9	20.8	17.8	18.8	18.6	19.5	20.5
4H 2H	10.7	11.8	11.4	12.6	13.5	10.5	11.7	11.3	12.4	13.3
3H	13.8	14.7	14.5	15.5	16.4	13.5	14.5	14.3	15.3	16.2
4H	15.5	16.4	16.3	17.2	18.1	15.2	16.1	16.0	16.9	17.9
6H	17.4	18.2	18.2	19.0	20.0	17.1	17.9	17.9	18.8	19.7
8H	18.5	19.2	19.3	20.1	21.1	18.2	19.0	19.0	19.8	20.8
12H	19.7	20.4	20.5	21.3	22.3	19.4	20.1	20.2	20.9	22.0
8H 4H	16.1	16.9	16.9	17.7	18.7	15.9	16.7	16.7	17.5	18.5
6H	18.3	19.0	19.2	19.8	20.8	18.1	18.7	18.9	19.6	20.6
8H	19.6	20.2	20.4	21.0	22.1	19.3	19.9	20.2	20.8	21.8
12H	21.0	21.5	21.9	22.4	23.5	20.8	21.3	21.6	22.2	23.2
12H 4H	16.3	17.0	17.1	17.8	18.8	16.1	16.8	16.9	17.6	18.6
6H	18.6	19.2	19.4	20.0	21.1	18.4	19.0	19.2	19.8	20.9
8H	20.0	20.5	20.8	21.3	22.4	19.8	20.3	20.6	21.1	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 1313 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.9)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
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g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

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	41	29	21	40	28	21	37	27	20	13
0.80	50	36	28	48	35	27	44	33	26	18
1.00	58	44	35	55	42	34	50	42	32	22
1.25	64	51	41	61	49	40	56	45	38	26
1.50	70	56	47	66	54	45	60	50	42	30
2.00	77	65	56	73	62	54	66	57	50	35
2.50	82	71	62	78	67	59	70	61	55	39
3.00	86	76	67	81	72	64	73	65	59	42
4.00	91	82	75	86	78	71	77	70	65	46
5.00	95	87	80	89	82	76	79	74	69	49
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

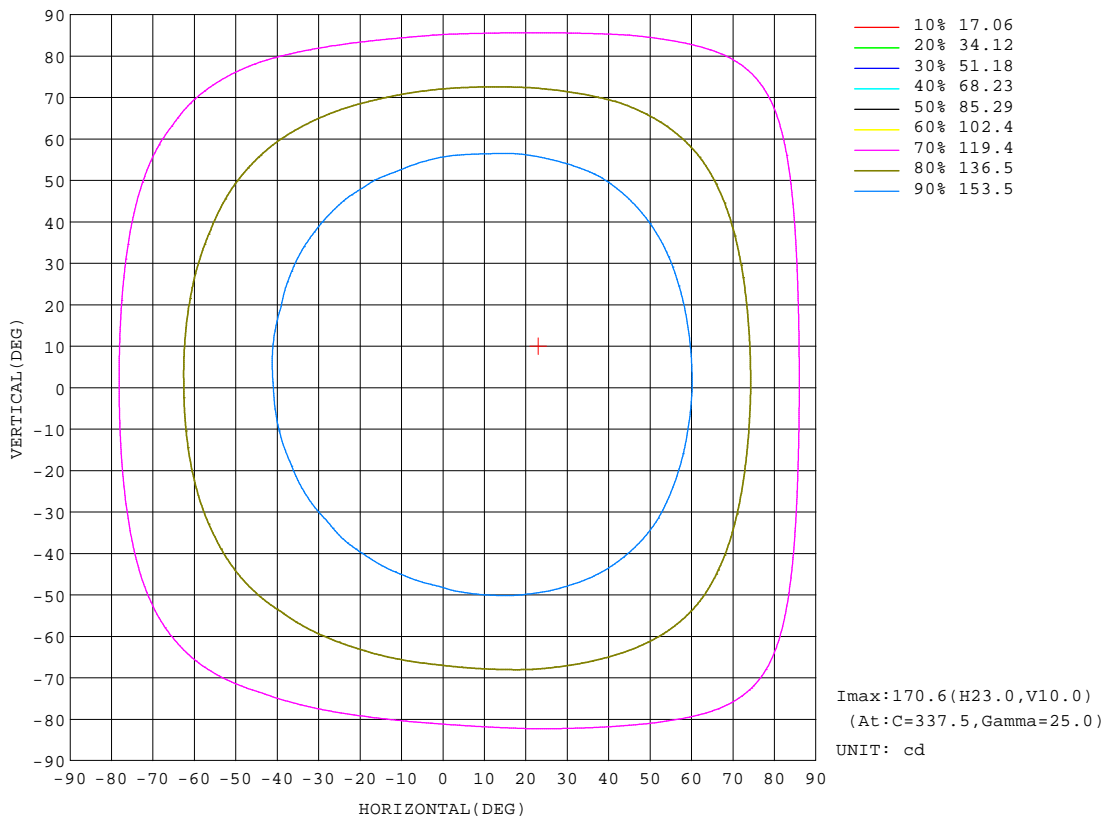
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ISOCANDELA DIAGRAM

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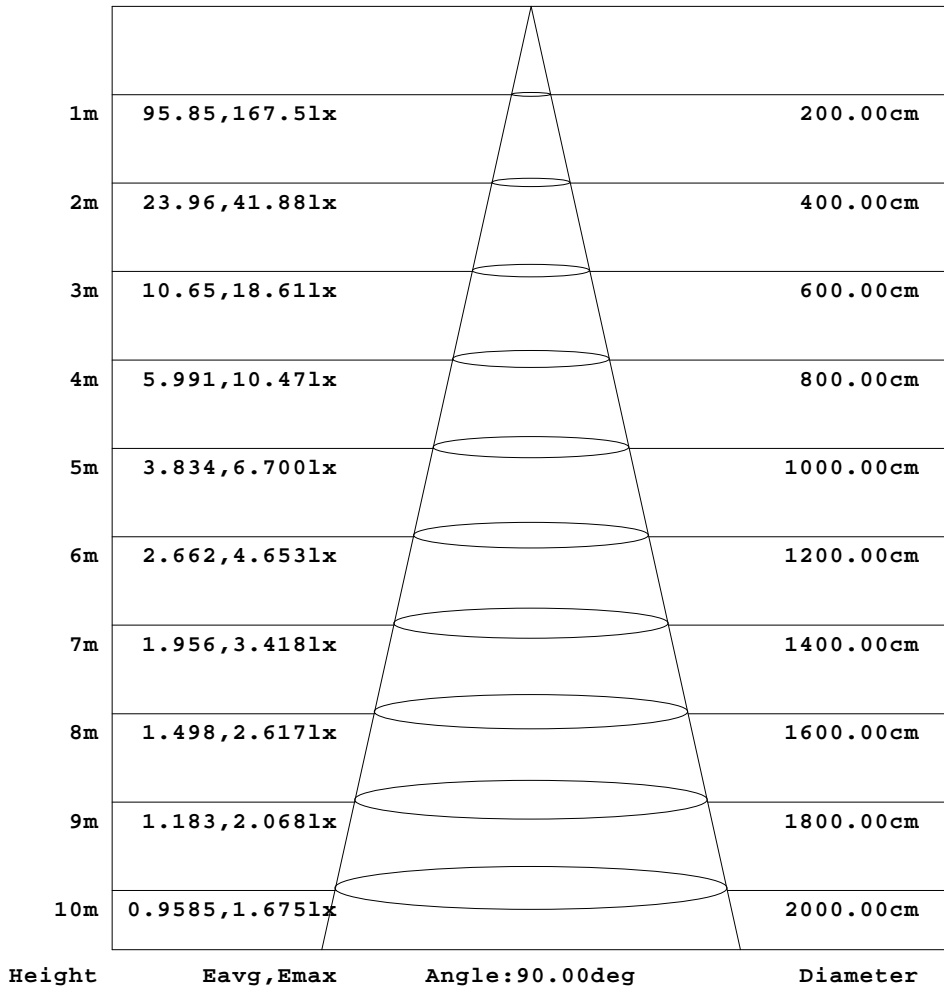
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AAI Figure

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

Flux out:301.1 lm



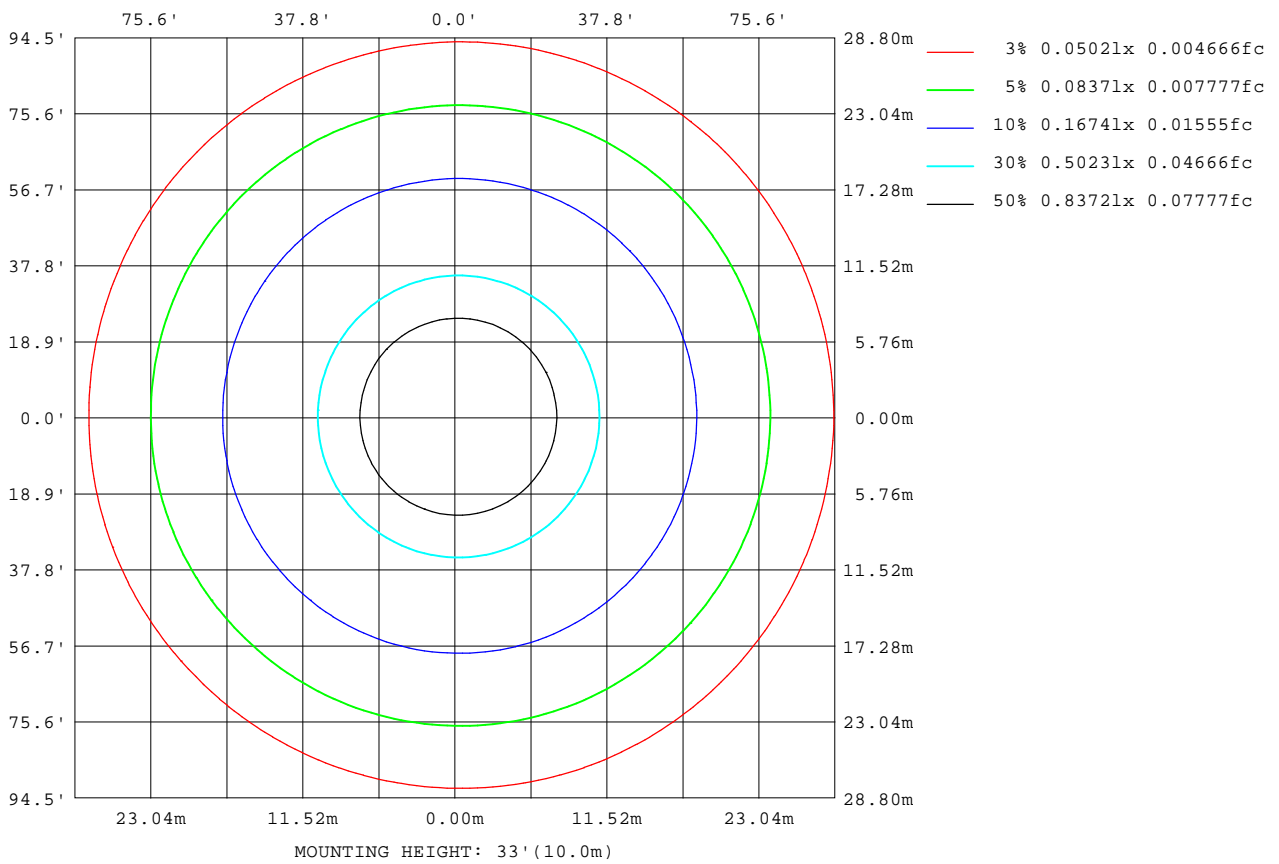
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
 Operators:DJQ  
 Test Date:2019-06-06

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity:46%  
 Test Distance:1.809m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: DJQ  
 Test Date: 2019-06-06

Page Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity: 46%  
 Test Distance: 1.809m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

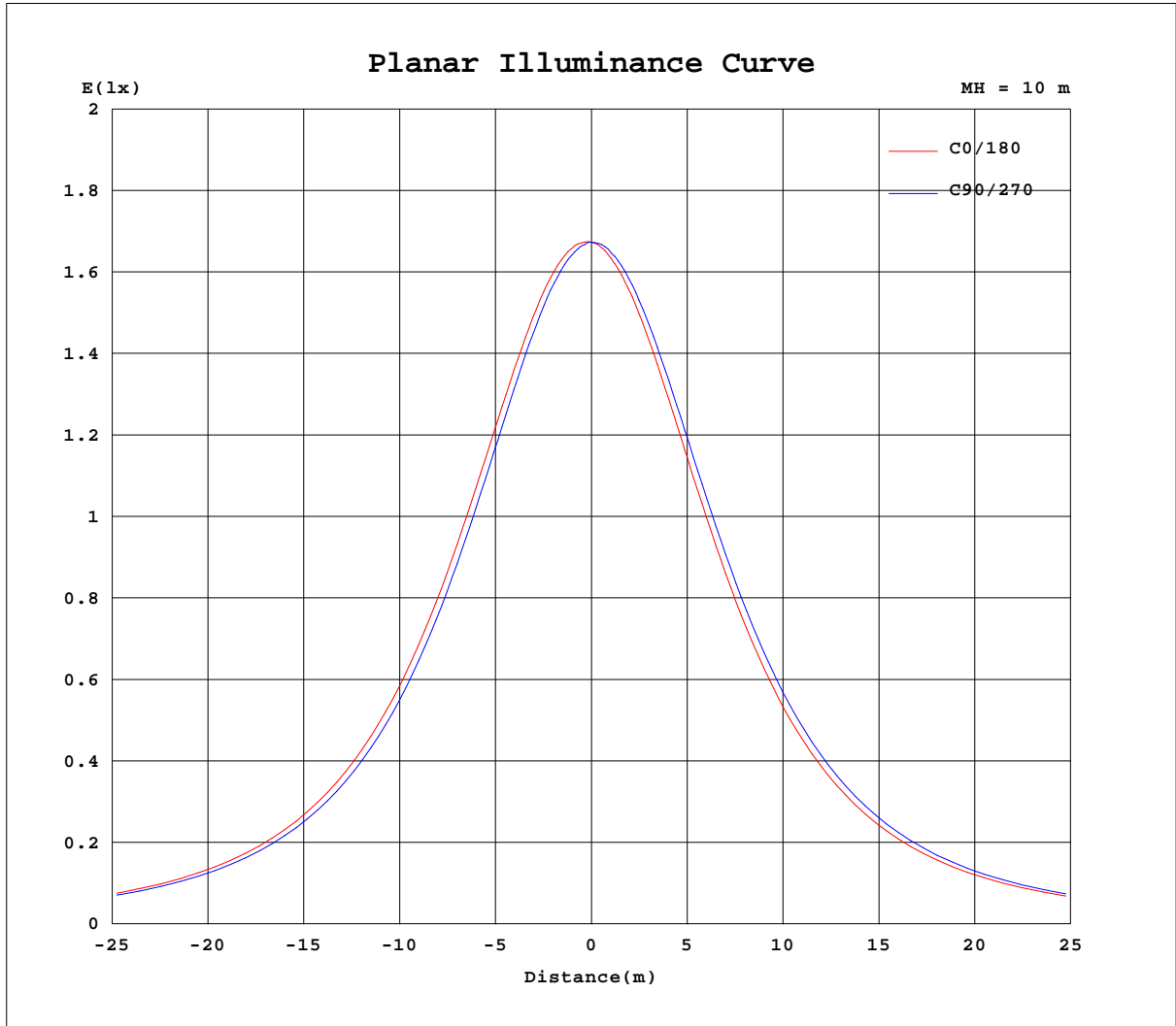
AvgL	cd/m2
L_0~180(65)av	1104
L_0~180(75)av	1652
L_0~180(85)av	4399
L_90~270(65)av	1108
L_90~270(75)av	1661
L_90~270(85)av	4439
L_45(65)av	1105
L_45(75)av	1655
L_45(85)av	4417

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2DEG  
Operators:DJQ  
Test Date:2019-06-06

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
Humidity:46%  
Test Distance:1.809m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2DEG  
 Operators: DJQ  
 Test Date: 2019-06-06

Page Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.6  
 Humidity: 46%  
 Test Distance: 1.809m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.0929A P:10.79W PF:0.9682 Freq:60.01Hz Lamp Flux:1313.44x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54504-01
MFR.: /	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (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	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167			
5	168	168	168	167	167	166	166	166	166	166	167	167	168	168	168	168			
10	169	169	168	167	166	165	165	165	165	165	166	167	168	168	169	169			
15	170	169	168	167	166	165	164	164	164	164	165	166	168	168	169	170			
20	170	169	168	167	165	163	162	162	162	163	164	166	167	169	170	170			
25	171	170	168	166	164	162	161	160	161	161	163	165	167	169	170	171			
30	170	169	167	165	163	161	159	159	159	160	162	164	166	168	170	170			
35	170	168	166	164	161	159	157	156	157	158	160	163	165	167	169	170			
40	168	166	164	161	159	156	155	154	154	155	158	160	163	166	167	168			
45	166	164	161	159	156	153	151	151	151	152	155	158	161	163	165	166			
50	162	161	158	155	152	150	148	147	147	149	152	155	158	160	162	163			
55	159	157	154	151	148	146	144	143	143	145	148	151	154	156	158	159			
60	154	152	149	147	144	141	139	139	139	140	143	147	150	152	154	154			
65	148	146	144	142	139	136	134	134	134	135	138	141	145	147	148	149			
70	142	140	138	136	133	131	129	129	129	130	133	136	139	141	142	143			
75	136	134	132	130	127	125	123	123	123	124	127	130	133	135	136	136			
80	128	127	125	123	121	119	117	117	117	119	121	124	126	128	129	129			
85	121	120	118	117	114	113	111	111	111	112	115	118	120	121	122	121			
90	113	112	110	109	108	106	105	104	105	106	109	111	113	113	114	114			
95	105	104	103	102	101	99.4	98.0	97.9	98.2	99.3	102	104	105	106	106	106			
100	97.3	96.4	95.3	94.8	93.7	92.5	91.3	91.4	91.6	92.6	95.0	96.4	98.0	98.3	98.6	97.9			
105	89.5	88.7	87.7	87.5	86.4	85.7	84.5	84.7	85.0	85.8	88.0	89.2	90.5	90.7	90.9	89.9			
110	81.7	81.0	80.2	80.2	79.4	78.9	77.9	78.0	78.3	79.1	81.0	82.0	83.2	83.1	83.1	82.3			
115	74.1	73.5	72.9	73.0	72.4	72.1	71.3	71.4	71.8	72.5	74.1	75.0	76.0	75.8	75.6	74.7			
120	66.8	66.4	65.9	66.0	65.6	65.4	64.8	64.9	65.3	65.9	67.3	68.1	68.9	68.5	68.3	67.4			
125	59.8	59.4	59.0	59.3	59.0	59.0	58.4	58.6	59.0	59.5	60.7	61.4	62.0	61.6	61.3	60.4			
130	53.2	52.9	52.6	52.8	52.7	52.7	52.3	52.5	52.8	53.3	54.3	54.9	55.4	55.0	54.6	53.9			
135	47.0	46.7	46.5	46.7	46.6	46.7	46.4	46.6	47.0	47.3	48.3	48.7	49.2	48.7	48.3	47.5			
140	41.2	40.9	40.7	41.0	41.0	41.1	40.9	41.0	41.4	41.8	42.5	42.9	43.2	42.7	42.4	42.1			
145	35.8	35.6	35.5	35.7	35.7	35.8	35.7	35.8	36.1	36.5	37.2	37.5	37.7	37.3	36.9	36.3			
150	30.9	30.7	30.6	30.8	30.7	30.8	30.8	31.0	31.2	31.6	32.1	32.3	32.5	32.1	31.8	31.3			
155	26.3	26.2	26.0	26.1	26.1	26.3	26.2	26.4	26.7	27.0	27.4	27.6	27.6	27.4	27.1	26.6			
160	22.1	21.9	21.8	21.9	21.8	21.9	22.0	22.1	22.4	22.7	23.1	22.9	23.2	22.8	22.7	22.3			
165	18.1	17.9	17.9	17.9	17.9	17.9	18.0	18.1	18.4	18.6	18.9	17.6	19.0	15.7	18.1	18.3			
170	12.8	12.4	12.6	12.7	12.6	12.5	12.4	12.4	12.6	12.6	12.2	9.48	6.33	10.9	12.5	12.8			
175	2.74	2.19	2.71	1.90	1.61	1.37	0.70	0.31	0.02	0.02	0.01	0.02	0.06	0.33	1.17	2.74			
180	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			

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 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2DEG  
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g Range: 0 - 180DEG  
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