

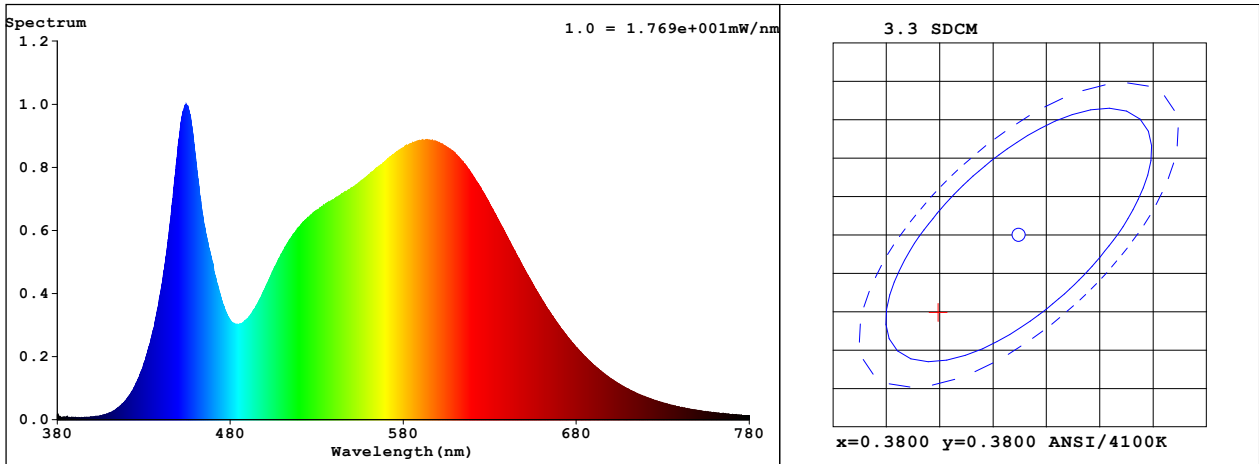
Spectrum Test Report

Sample : Self-ballasted LED lamps Date : 2019-06-06 13:24:16
Specification : A19-9-E26-840-ND Sam. Status : OK
Sample No. : N19LEDGW54503-01 Instrument : HaasSuite(EVERFINE)
Manufacturer : RAB Lighting Inc

Test Condition

Temperature : 24.6Deg RH : 33.0%
WL Range : 380nm-780nm IP : 55298 (84%)
Test Mode : Accuracy Test T : 1135 ms

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3735$ $y = 0.3719$ / $u' = 0.2224$ $v' = 0.4984$ ($duv = -4.25e-04$)

CCT= 4161K Prcp WL: Ld=578.5nm Purity=23.7%

Peak WL: Lp=455nm FWHM: =27.3nm Ratio:R=18.1% G=78.0% B=3.9%

Render Index: Ra = 84.3

R1 =83 R2 =91 R3 =95 R4 =83 R5 =83 R6 =86 R7 =87
R8 =68 R9 =17 R10=77 R11=81 R12=63 R13=85 R14=97 R15=78

Photometric & Radiometric Parameters

Flux = 935.40 lm Eff. : 101.47 lm/W Fe = 2.8900 W

Photosynthetic:PPF:13.096umol/s PAR WATT:2808.6mW(400-700nm)

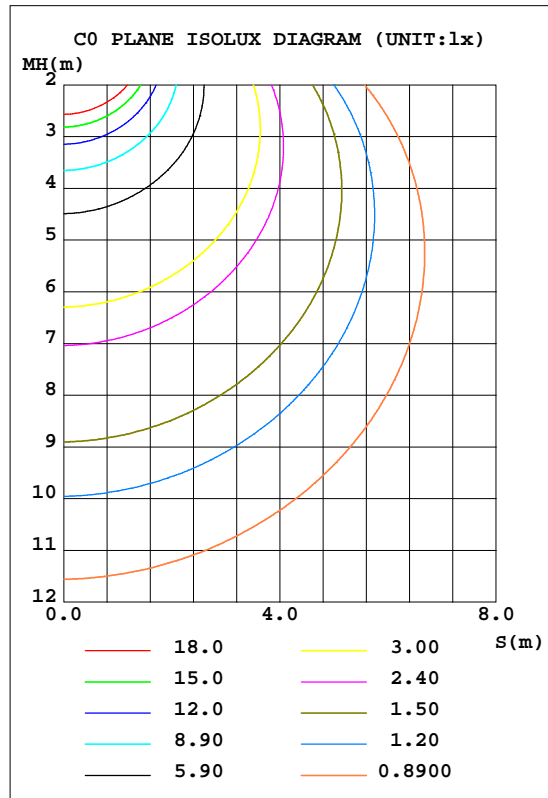
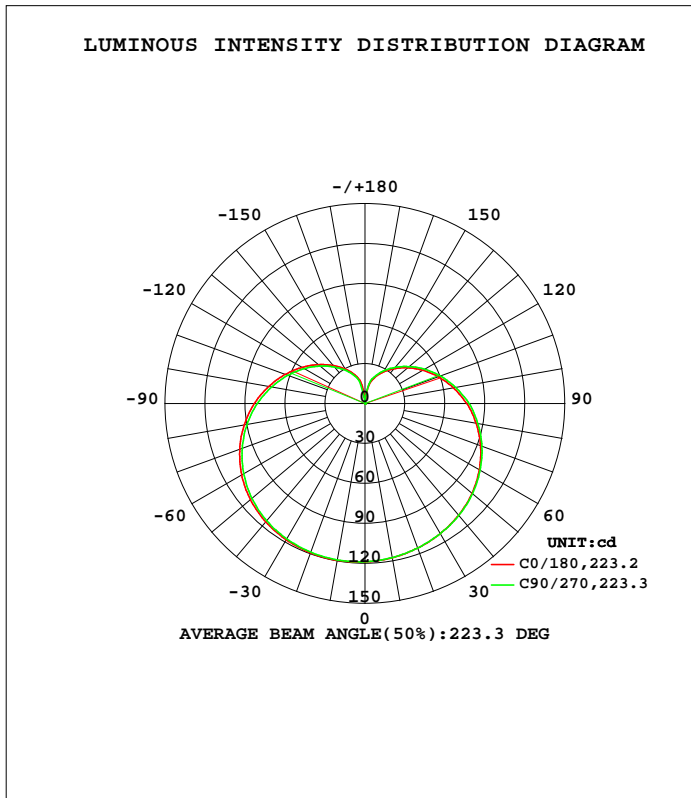
Electrical parameters

V = 120.0 V I = 0.1241 A P = 9.219 W PF = 0.6187

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.55 lm/W			
MODEL	A19-9-E26-840-ND	I _{max} (cd)	119.9	S/MH(C0/180)	1.51
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.50
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	957.03	h UP, DN(C0-180)	16.5, 32.7
NOMINAL FLUX(lm)	957.027	CIE CLASS	SEMI-D.	h UP, DN(C180-360)	16.9, 33.9
LAMPS INSIDE	1	h up(%)	33.4	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)		h down(%)	66.6	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	117.6	117.1	117.5	118.3	119.5	119.8	119.2	118.2	0- 10	11.32	11.32	1.18,1.18
20	115.5	114.7	115.5	117.3	119.3	119.6	118.8	116.9	10- 20	33.38	44.70	4.67,4.67
30	112.8	111.7	112.8	115.5	118.1	118.6	117.3	115.1	20- 30	53.79	98.49	10.3,10.3
40	109.5	108.2	109.6	112.9	115.9	116.4	114.8	112.1	30- 40	71.53	170.0	17.8,17.8
50	104.9	103.6	105.3	109.0	112.3	112.6	110.9	107.8	40- 50	85.50	255.5	26.7,26.7
60	99.15	98.07	99.84	103.8	106.9	107.2	105.1	102.0	50- 60	94.70	350.2	36.6,36.6
70	92.32	91.51	93.41	97.17	100.0	100.1	98.01	95.03	60- 70	98.65	448.9	46.9,46.9
80	84.61	84.10	85.92	89.43	92.00	91.85	89.84	87.08	70- 80	97.38	546.2	57.1,57.1
90	76.36	76.30	78.16	81.25	83.11	82.75	80.85	78.53	80- 90	91.53	637.8	66.6,66.6
100	67.53	67.51	69.23	71.94	73.50	73.00	71.34	69.34	90-100	81.88	719.6	75.2,75.2
110	58.80	58.82	60.41	62.68	63.90	63.24	61.84	60.18	100-110	69.64	789.3	82.5,82.5
120	50.14	50.24	51.72	53.53	54.46	53.80	52.57	51.27	110-120	56.32	845.6	88.4,88.4
130	41.87	42.03	43.11	44.79	45.55	44.93	43.84	42.75	120-130	43.02	888.6	92.9,92.9
140	34.21	34.41	35.54	36.74	37.29	36.80	35.85	34.90	130-140	30.76	919.4	96.1,96.1
150	27.28	27.47	28.44	29.48	29.98	29.55	28.69	27.80	140-150	20.26	939.6	98.2,98.2
160	20.41	20.73	21.70	22.59	23.13	22.79	21.91	20.95	150-160	11.75	951.4	99.4,99.4
170	11.14	11.65	12.59	13.87	14.42	13.41	6.322	10.93	160-170	5.108	956.5	99.9,99.9
180	0.0020	0.0022	0.0019	0.0020	0.0017	0.0019	0.0019	0.0017	170-180	0.5243	957.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 211.3 lm

%lum = 22.1%
 %lamp = 22.1%

Conical surface Flux(120deg): 350.21 lm

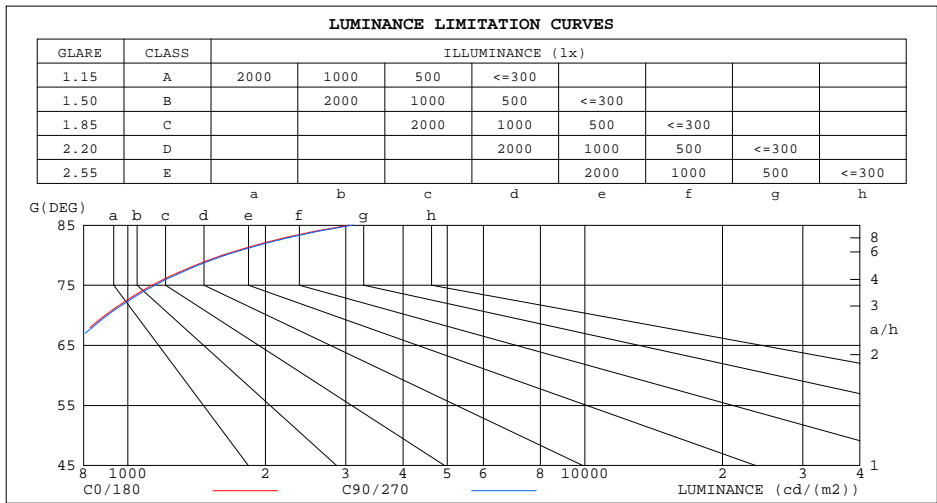
%lum = 36.6%
 %lamp = 36.6%

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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3059	3115
80	1611	1636
75	1131	1147
70	892	903
65	750	757
60	656	660
55	589	592
50	540	542
45	502	503

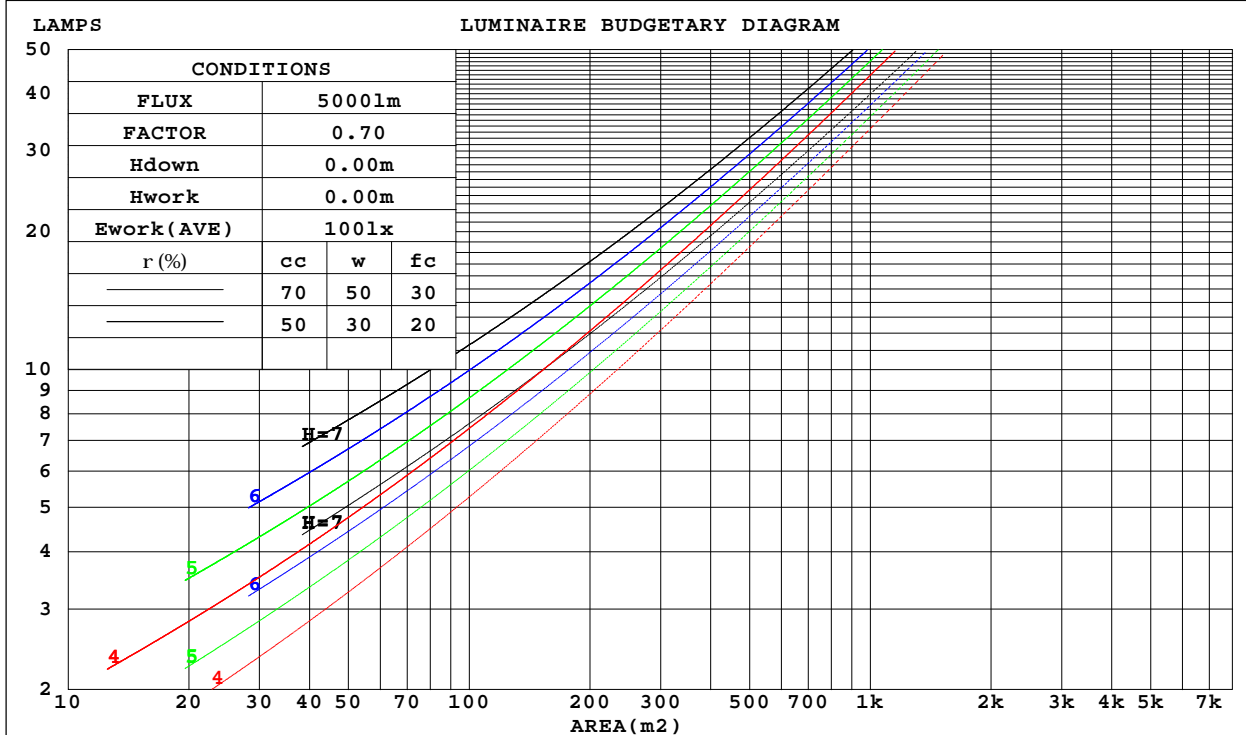
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:DJQ
 Test Date:2019-06-06

G Range: 0 - 180DEG
 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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.11	1.11	1.11	1.05	1.05	1.05	.93	.93	.93	.82	.82	.82	.71	.71	.71	.67
1.0	.90	.85	.79	.85	.80	.75	.74	.70	.67	.65	.62	.59	.56	.53	.51	.47
2.0	.77	.68	.61	.72	.64	.58	.63	.57	.52	.54	.50	.46	.47	.43	.40	.36
3.0	.66	.57	.49	.62	.53	.47	.54	.47	.41	.47	.41	.37	.40	.36	.32	.28
4.0	.57	.48	.40	.54	.45	.38	.47	.40	.34	.41	.35	.30	.35	.30	.26	.23
5.0	.51	.41	.34	.48	.39	.32	.42	.34	.29	.36	.30	.26	.31	.26	.22	.19
6.0	.45	.36	.29	.42	.34	.28	.37	.30	.25	.32	.26	.22	.28	.23	.19	.16
7.0	.41	.31	.25	.38	.30	.24	.34	.27	.21	.29	.23	.19	.25	.20	.17	.14
8.0	.37	.28	.22	.35	.27	.21	.30	.24	.19	.27	.21	.17	.23	.18	.15	.12
9.0	.33	.25	.19	.32	.24	.18	.28	.21	.17	.24	.19	.15	.21	.17	.13	.11
10.0	.31	.23	.17	.29	.21	.16	.26	.19	.15	.23	.17	.13	.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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
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	.414	.235	.075	.396	.226	.072	.364	.209	.067	.334	.193	.062	.306	.177	.057	
2.0	.348	.191	.059	.332	.183	.056	.303	.168	.052	.275	.154	.048	.250	.141	.045	
3.0	.305	.162	.049	.290	.155	.047	.263	.143	.043	.238	.130	.040	.215	.119	.037	
4.0	.272	.141	.041	.258	.135	.040	.234	.124	.037	.211	.113	.034	.189	.103	.031	
5.0	.245	.125	.036	.233	.120	.035	.211	.110	.032	.190	.100	.030	.170	.091	.027	
6.0	.224	.112	.032	.213	.107	.031	.192	.098	.029	.172	.090	.026	.154	.081	.024	
7.0	.205	.102	.029	.195	.097	.028	.176	.089	.026	.158	.081	.024	.141	.073	.022	
8.0	.190	.093	.026	.181	.089	.025	.163	.081	.023	.146	.074	.021	.131	.067	.020	
9.0	.177	.085	.024	.168	.082	.023	.152	.075	.021	.136	.068	.020	.121	.062	.018	
10.0	.165	.079	.022	.157	.076	.021	.142	.069	.020	.127	.063	.018	.113	.057	.016	

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	.445	.445	.445	.380	.380	.380	.259	.259	.259	.149	.149	.149	.048	.048	.048	
1.0	.444	.411	.382	.380	.353	.329	.260	.243	.228	.149	.141	.132	.048	.045	.043	
2.0	.438	.390	.349	.375	.335	.302	.257	.232	.211	.148	.135	.123	.048	.044	.040	
3.0	.431	.374	.329	.369	.323	.285	.253	.224	.200	.146	.131	.118	.047	.042	.039	
4.0	.423	.362	.315	.363	.313	.274	.250	.218	.193	.144	.128	.114	.046	.042	.038	
5.0	.415	.353	.306	.357	.305	.267	.246	.213	.188	.142	.125	.112	.046	.041	.037	
6.0	.408	.345	.300	.351	.299	.261	.242	.209	.185	.140	.123	.110	.045	.040	.036	
7.0	.401	.339	.295	.345	.294	.257	.238	.206	.182	.138	.121	.108	.045	.040	.036	
8.0	.394	.333	.292	.339	.289	.254	.235	.203	.180	.137	.120	.107	.044	.039	.036	
9.0	.388	.329	.289	.334	.285	.252	.231	.201	.179	.135	.118	.107	.044	.039	.035	
10.0	.382	.325	.286	.329	.282	.250	.228	.198	.178	.133	.117	.106	.043	.039	.035	

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
 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:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm										
NAME: Self-ballasted LED lamps					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:N19LEDGW54503-01		
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	9.0	10.3	9.7	11.0	11.8	9.1	10.3	9.7	11.0	11.9
3H	11.9	13.0	12.6	13.8	14.7	11.9	13.1	12.7	13.8	14.7
4H	13.5	14.6	14.2	15.3	16.3	13.6	14.6	14.3	15.4	16.3
6H	15.3	16.3	16.0	17.1	18.0	15.4	16.4	16.1	17.2	18.1
8H	16.3	17.3	17.0	18.0	19.0	16.4	17.3	17.1	18.1	19.1
12H	17.4	18.4	18.2	19.2	20.1	17.5	18.5	18.3	19.3	20.2
4H 2H	9.9	11.0	10.7	11.8	12.7	9.9	11.0	10.7	11.8	12.7
3H	13.0	13.9	13.7	14.7	15.7	13.0	13.9	13.8	14.7	15.7
4H	14.7	15.6	15.5	16.4	17.4	14.8	15.6	15.6	16.4	17.4
6H	16.7	17.4	17.5	18.3	19.3	16.7	17.5	17.5	18.3	19.4
8H	17.7	18.5	18.6	19.3	20.4	17.8	18.6	18.7	19.4	20.4
12H	19.0	19.7	19.8	20.5	21.6	19.1	19.8	19.9	20.6	21.7
8H 4H	15.4	16.1	16.2	16.9	18.0	15.4	16.1	16.2	17.0	18.0
6H	17.6	18.2	18.4	19.1	20.1	17.6	18.3	18.5	19.1	20.2
8H	18.9	19.4	19.7	20.3	21.4	18.9	19.5	19.8	20.4	21.5
12H	20.3	20.8	21.2	21.7	22.8	20.4	20.9	21.3	21.8	22.9
12H 4H	15.5	16.2	16.4	17.1	18.1	15.6	16.2	16.4	17.1	18.2
6H	17.9	18.4	18.7	19.3	20.4	17.9	18.5	18.8	19.4	20.5
8H	19.3	19.7	20.1	20.6	21.8	19.3	19.8	20.2	20.7	21.8
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, 957.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)

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
 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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:

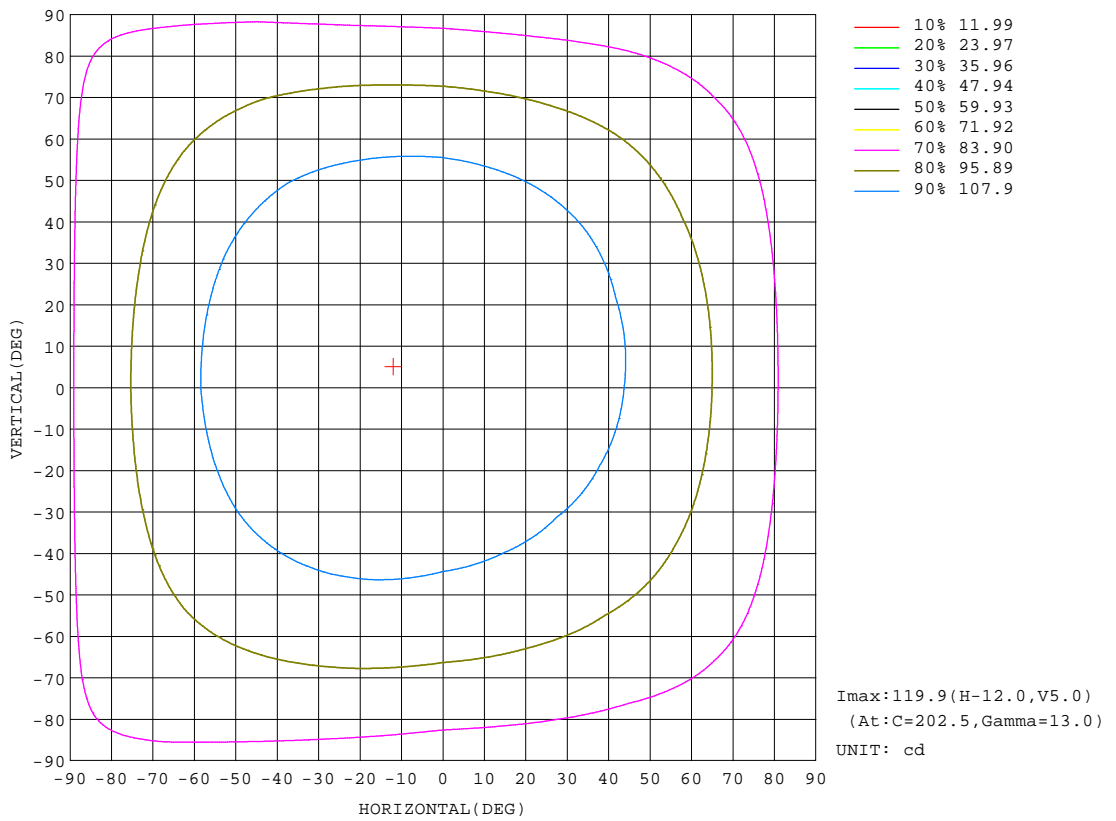
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	41	28	21	39	28	20	37	26	20	13
0.80	50	36	28	48	35	27	44	33	26	17
1.00	57	43	34	54	42	33	50	41	31	21
1.25	64	50	41	61	48	40	55	45	37	26
1.50	69	56	46	66	53	45	59	49	42	29
2.00	77	64	55	73	61	53	65	56	49	34
2.50	82	70	61	77	67	59	69	60	54	37
3.00	86	75	67	81	71	64	72	64	58	41
4.00	91	82	74	85	77	71	76	69	64	45
5.00	94	86	79	89	81	75	78	73	68	48
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:



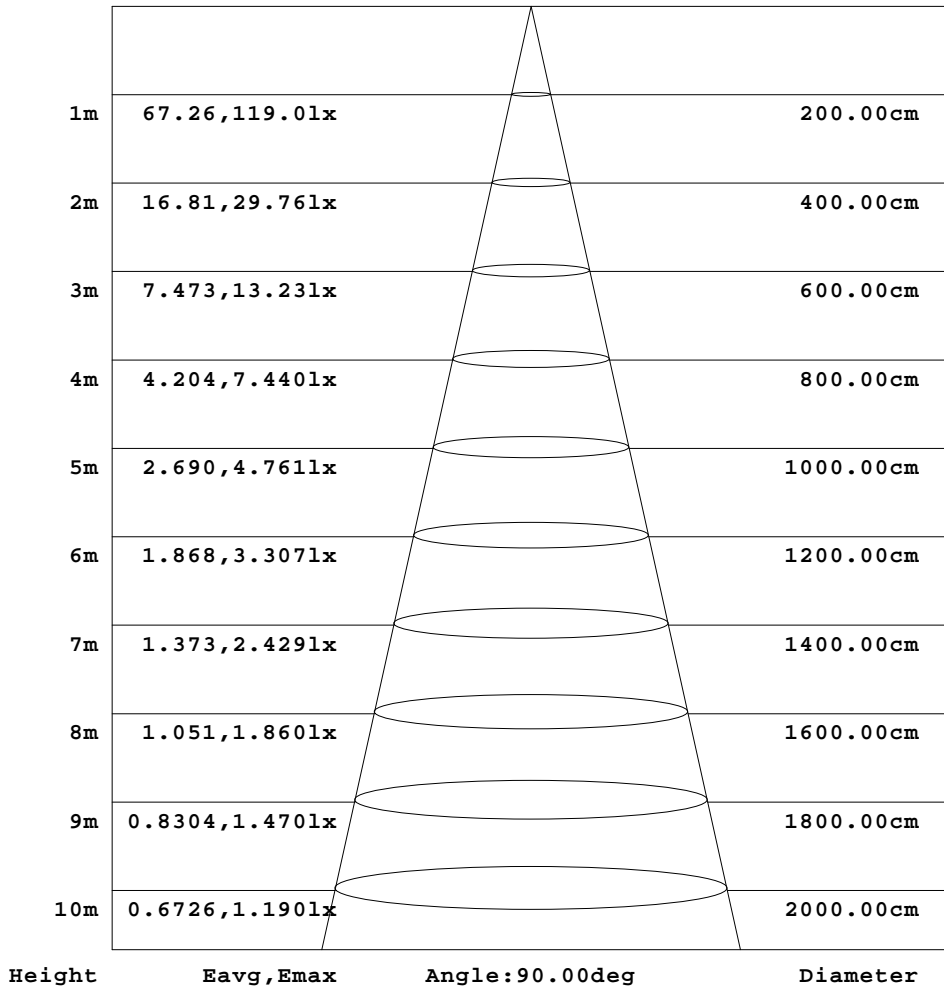
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:DJQ
 Test Date:2019-06-06

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:

AAI Figure

Test:U:120.0V I:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:

Flux out:211.3 lm



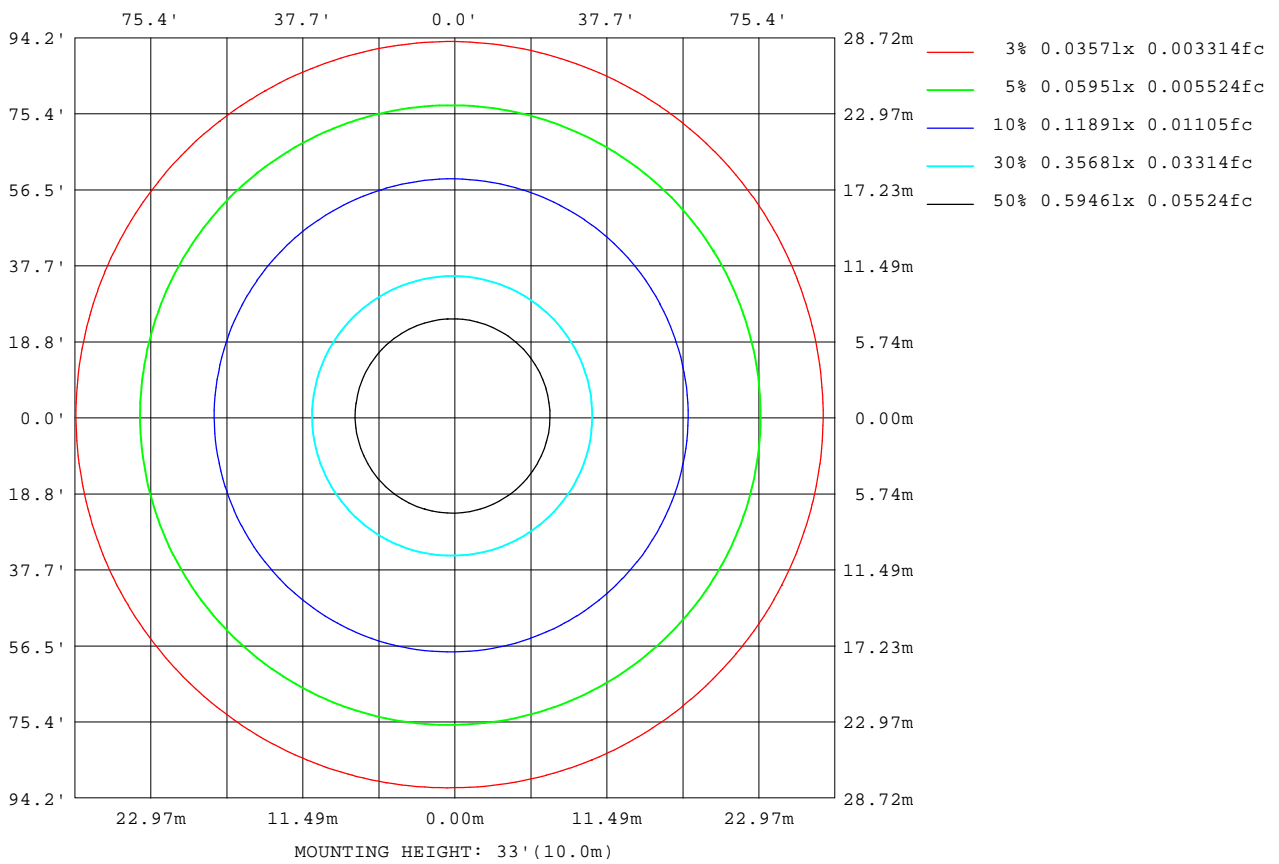
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
MFR.: /	SUR.:	Shielding Angle:

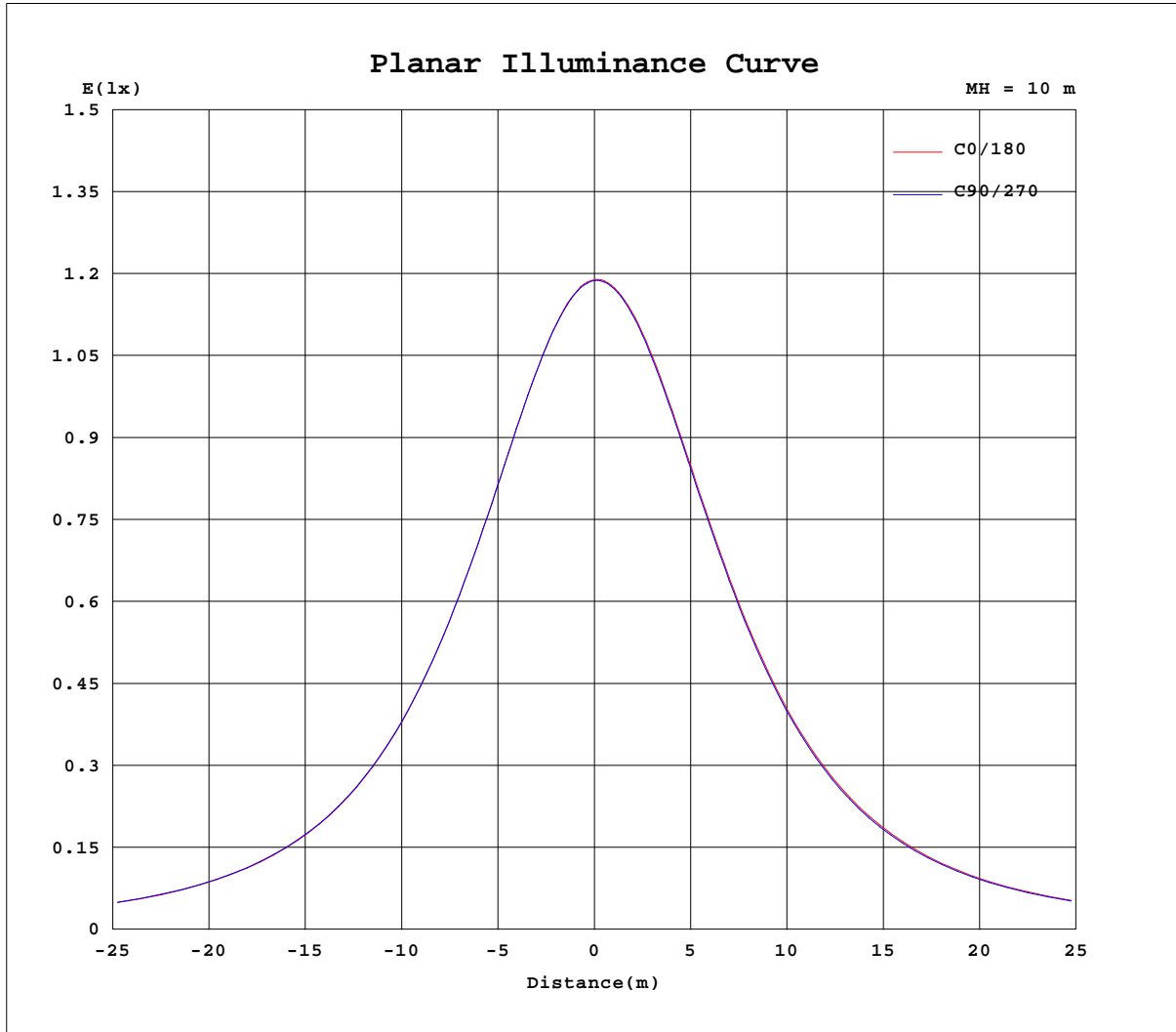
AvgL	cd/m2
L_0~180(65)av	780
L_0~180(75)av	1180
L_0~180(85)av	3190
L_90~270(65)av	776
L_90~270(75)av	1174
L_90~270(85)av	3176
L_45(65)av	778
L_45(75)av	1177
L_45(85)av	3185

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:0.1227A P:9.154W PF:0.6218 Freq:60.01Hz Lamp Flux:957.027x1 lm		
NAME: Self-ballasted LED lamps	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:N19LEDGW54503-01
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	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119			
5	118	118	118	118	118	118	119	119	119	119	119	119	119	119	119	118			
10	118	117	117	117	117	118	118	119	120	120	120	120	119	119	118	118			
15	117	116	116	116	117	117	118	119	120	120	120	120	119	118	118	117			
20	115	115	115	115	115	116	117	118	119	120	120	119	119	118	117	116			
25	114	114	113	113	114	115	117	118	119	119	119	119	118	117	116	115			
30	113	112	112	112	113	114	116	117	118	119	119	118	117	116	115	114			
35	111	110	110	110	111	113	114	116	117	118	118	117	116	115	114	112			
40	109	109	108	109	110	111	113	114	116	116	116	116	115	114	112	110			
45	107	106	106	107	108	109	111	113	114	115	115	114	113	112	110	108			
50	105	104	104	104	105	107	109	111	112	113	113	112	111	109	108	106			
55	102	101	101	102	103	105	107	108	110	110	110	109	108	107	105	103			
60	99.1	98.3	98.1	98.8	99.8	102	104	106	107	107	107	106	105	104	102	100			
65	95.9	95.2	95.0	95.7	96.8	98.8	101	102	104	104	104	103	102	100	98.6	96.8			
70	92.3	91.7	91.5	92.4	93.4	95.4	97.2	98.9	100	100	100	99.1	98.0	96.4	95.0	93.2			
75	88.6	87.9	87.9	88.8	89.8	91.8	93.4	95.1	96.2	96.3	96.1	95.1	94.1	92.5	91.1	89.4			
80	84.6	84.1	84.1	85.1	85.9	87.9	89.4	91.0	92.0	91.9	91.8	90.8	89.8	88.3	87.1	85.3			
85	80.7	80.3	80.4	81.3	82.1	83.8	85.3	86.7	87.6	87.4	87.4	86.3	85.4	83.9	82.9	81.3			
90	76.4	76.1	76.3	77.3	78.2	79.9	81.3	82.5	83.1	82.8	82.7	81.8	80.9	79.5	78.5	77.0			
95	71.9	71.7	71.9	72.8	73.7	75.4	76.7	77.8	78.4	78.0	78.0	76.9	76.1	74.8	73.9	72.5			
100	67.5	67.4	67.5	68.4	69.2	70.8	71.9	73.0	73.5	73.1	73.0	72.1	71.3	70.2	69.3	68.0			
105	63.2	63.0	63.1	64.0	64.8	66.2	67.3	68.2	68.7	68.3	68.1	67.2	66.6	65.5	64.7	63.6			
110	58.8	58.7	58.8	59.6	60.4	61.7	62.7	63.5	63.9	63.5	63.2	62.4	61.8	60.9	60.2	59.1			
115	54.4	54.4	54.5	55.2	56.0	57.2	58.1	58.8	59.1	58.8	58.5	57.7	57.1	56.3	55.7	54.7			
120	50.1	50.2	50.2	50.9	51.7	52.8	53.5	54.2	54.5	54.1	53.8	53.1	52.6	51.8	51.3	50.4			
125	45.9	46.0	46.1	46.7	47.5	48.4	49.1	49.7	49.9	49.6	49.3	48.7	48.2	47.4	46.9	46.1			
130	41.9	41.9	42.0	42.6	43.1	44.2	44.8	45.3	45.5	45.2	44.9	44.3	43.8	43.2	42.8	42.1			
135	38.0	38.0	38.1	38.7	39.4	40.1	40.7	41.1	41.3	41.0	40.8	40.2	39.7	39.1	38.7	38.1			
140	34.2	34.3	34.4	34.9	35.5	36.3	36.7	37.1	37.3	37.1	36.8	36.3	35.9	35.3	34.9	34.4			
145	30.7	30.8	30.9	31.4	31.9	32.6	33.0	33.4	33.5	33.3	33.1	32.6	32.2	31.7	31.3	30.8			
150	27.3	27.3	27.5	28.0	28.4	29.1	29.5	29.8	30.0	29.8	29.5	29.1	28.7	28.2	27.8	27.4			
155	23.8	23.9	24.1	24.6	25.0	25.7	26.0	26.3	26.5	26.4	26.1	25.7	25.3	24.7	24.4	24.0			
160	20.4	20.5	20.7	21.2	21.7	22.2	22.6	22.9	23.1	23.0	22.8	22.3	21.9	21.0	21.0	20.5			
165	17.0	16.9	17.3	17.8	18.2	18.8	19.2	19.5	19.8	19.6	19.3	17.5	18.0	13.8	16.3	16.9			
170	11.1	11.0	11.6	12.3	12.6	13.5	13.9	14.2	14.4	14.0	13.4	10.00	6.32	9.91	10.9	11.1			
175	0.01	0.01	0.02	0.13	0.62	1.33	1.72	2.07	1.72	1.35	0.87	0.10	0.02	0.01	0.01	0.01			
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			

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: