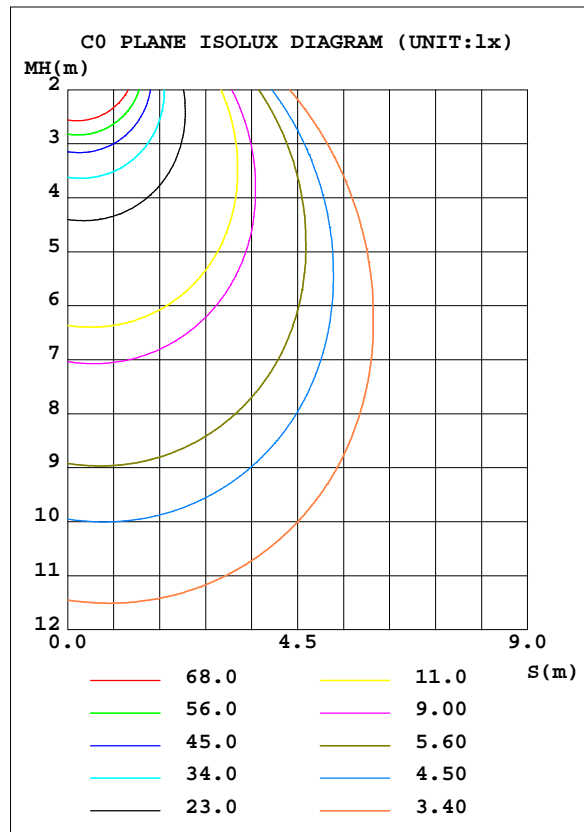
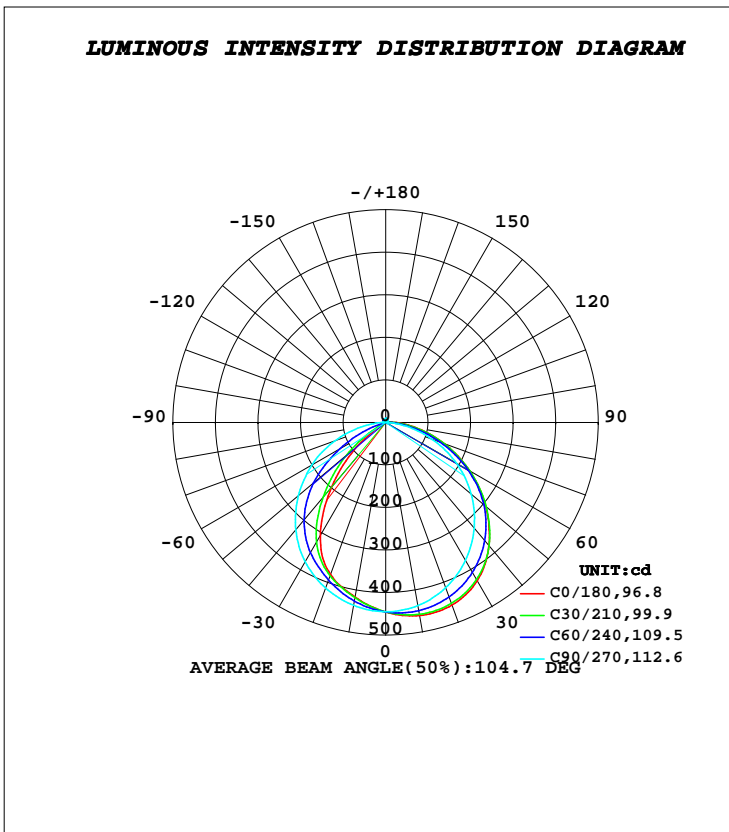


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.32 lm/W			
MODEL		I <sub>max</sub> (cd)	461.7	S/MH(C0/180)	1.41
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1187.0	η UP, DN(C0-180)	1.4, 50.8
NOMINAL FLUX(lm)	1186.96	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.7, 46.0
LAMPS INSIDE	1	η up(%)	3.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	221.6	η down(%)	96.8	CIBSE SHR MAX	1.35



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**ZONAL FLUX DIAGRAM**

**ZONAL FLUX DIAGRAM:**

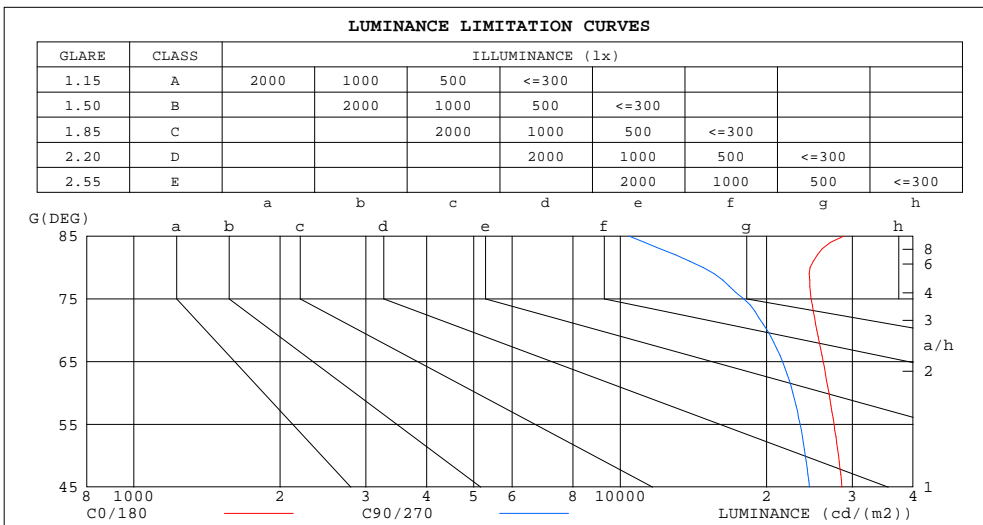
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	460.6	453.4	437.0	421.4	416.8	422.1	436.5	452.8	0- 10	42.12	42.12	3.55,3.55
20	456.8	444.5	413.1	387.4	380.2	388.8	414.0	444.4	10- 20	121.0	163.2	13.7,13.7
30	430.1	417.1	374.8	335.5	307.9	339.7	378.8	418.7	20- 30	183.6	346.8	29.2,29.2
40	377.7	370.3	324.1	256.0	197.2	263.9	328.9	373.5	30- 40	216.7	563.5	47.5,47.5
50	307.4	305.1	262.6	159.7	86.50	171.9	268.3	310.0	40- 50	211.9	775.3	65.3,65.3
60	228.3	226.0	192.4	59.23	2.413	72.65	200.6	231.7	50- 60	171.3	946.6	79.7,79.7
70	147.6	141.7	116.6	8.035	1.912	18.14	126.6	149.1	60- 70	115.7	1062	89.5,89.5
80	72.52	63.81	43.76	2.029	2.242	4.842	53.61	71.55	70- 80	63.51	1126	94.8,94.8
90	22.41	15.57	4.005	2.515	2.977	4.219	5.756	19.80	80- 90	23.57	1149	96.8,96.8
100	6.607	4.708	4.231	3.370	3.918	4.917	6.854	6.818	90-100	7.514	1157	97.5,97.5
110	3.232	2.858	3.732	4.293	4.953	5.787	5.203	4.482	100-110	4.822	1162	97.9,97.9
120	2.738	3.402	4.613	5.288	5.938	6.508	5.698	4.699	110-120	4.497	1166	98.3,98.3
130	3.908	4.374	5.520	6.254	6.805	7.180	6.312	5.379	120-130	4.767	1171	98.7,98.7
140	5.029	5.343	6.436	7.140	7.540	7.760	7.001	6.056	130-140	4.751	1176	99.1,99.1
150	6.048	6.370	7.356	7.941	8.146	8.325	7.778	6.851	140-150	4.357	1180	99.4,99.4
160	7.169	7.475	8.239	8.657	8.736	8.821	8.497	7.736	150-160	3.580	1184	99.7,99.7
170	8.402	8.505	8.980	9.194	9.177	9.200	9.078	8.633	160-170	2.413	1186	99.9,99.9
180	9.149	9.187	9.334	9.251	9.150	9.187	9.334	9.253	170-180	0.8630	1187	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-30**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**LUMINANCE LIMITATION CURVES**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	28823	10439
80	24565	14822
75	24672	17961
70	25379	20047
65	26147	21587
60	26860	22635
55	27519	23442
50	28134	24032
45	28567	24506

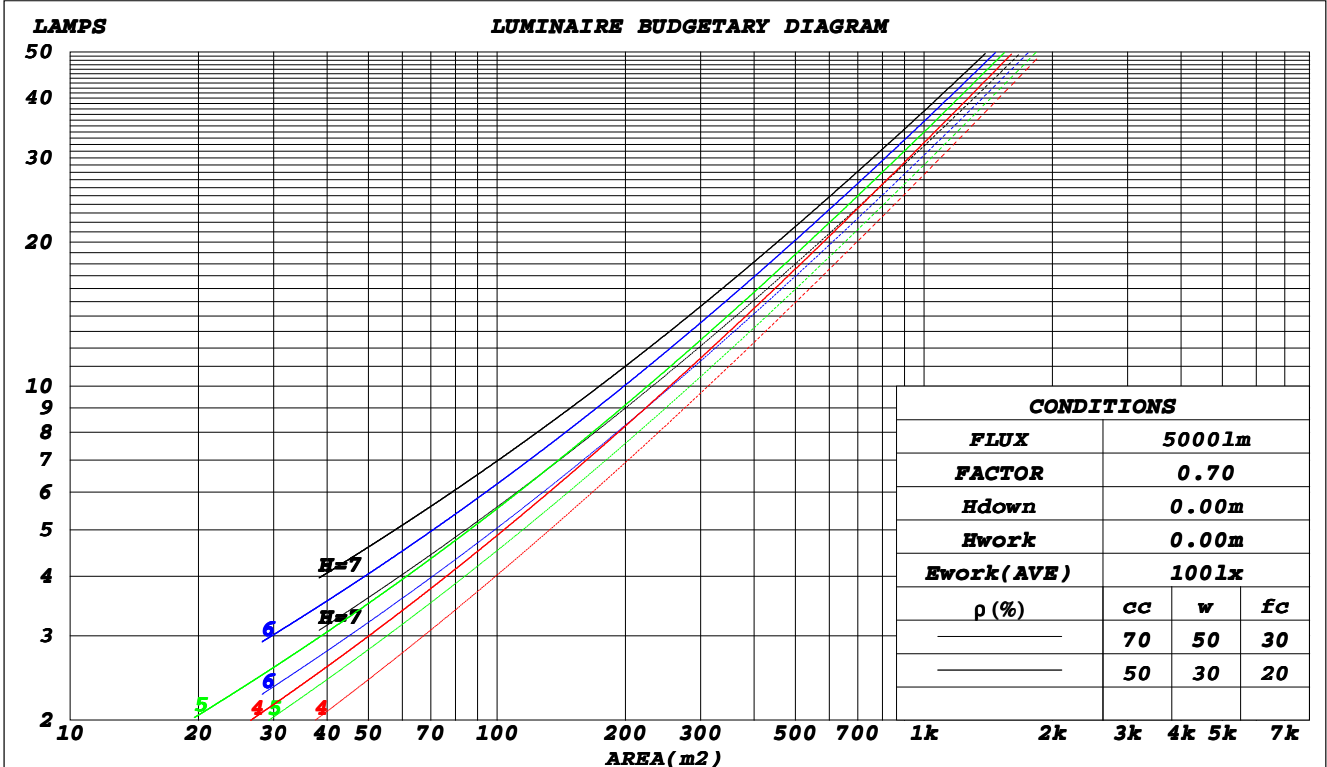
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Coefficients of Utilization(CU)</b>									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.04	.90	.96	1.01	.98	.94	.97	.93	.91	.92	.90	.87	.88	.86	.84	.82
2.0	.91	.85	.79	.89	.83	.78	.85	.80	.76	.81	.77	.74	.78	.75	.71	.69
3.0	.81	.73	.67	.79	.72	.66	.75	.69	.64	.72	.67	.63	.69	.65	.61	.59
4.0	.72	.63	.57	.70	.62	.56	.67	.61	.55	.65	.59	.54	.62	.57	.53	.51
5.0	.64	.56	.49	.63	.55	.49	.61	.53	.48	.58	.52	.47	.56	.51	.46	.44
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.51	.45	.41	.39
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.48	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-05-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=0.7063]  
 Remarks:

**WEC AND CCEC**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.295	.168	.053	.287	.164	.052	.272	.156	.050	.258	.149	.048	.245	.142	.046	
2.0	.277	.152	.047	.270	.149	.046	.257	.143	.044	.244	.137	.043	.233	.132	.042	
3.0	.257	.137	.041	.251	.134	.040	.239	.130	.039	.228	.125	.038	.218	.121	.037	
4.0	.238	.124	.036	.233	.122	.036	.222	.118	.035	.212	.114	.034	.203	.111	.034	
5.0	.221	.113	.033	.216	.111	.032	.207	.108	.032	.198	.105	.031	.190	.102	.031	
6.0	.206	.103	.030	.201	.102	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	
7.0	.192	.095	.027	.188	.094	.027	.181	.091	.026	.174	.089	.026	.167	.087	.025	
8.0	.180	.088	.025	.176	.087	.025	.170	.085	.024	.163	.083	.024	.157	.081	.024	
9.0	.169	.082	.023	.166	.081	.023	.160	.079	.022	.154	.077	.022	.148	.075	.022	
10.0	.159	.076	.021	.156	.076	.021	.151	.074	.021	.145	.072	.021	.140	.071	.020	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.215	.215	.215	.183	.183	.183	.125	.125	.125	.072	.072	.072	.023	.023	.023	
1.0	.204	.181	.160	.174	.155	.138	.119	.107	.095	.069	.062	.055	.022	.020	.018	
2.0	.195	.156	.124	.167	.135	.107	.114	.093	.075	.066	.054	.044	.021	.018	.014	
3.0	.187	.139	.101	.160	.120	.087	.110	.083	.061	.063	.049	.036	.020	.016	.012	
4.0	.179	.125	.085	.153	.108	.074	.106	.076	.052	.061	.044	.031	.020	.014	.010	
5.0	.171	.115	.073	.147	.100	.064	.101	.070	.045	.059	.041	.027	.019	.013	.009	
6.0	.164	.107	.065	.141	.092	.057	.098	.065	.040	.057	.038	.024	.018	.012	.008	
7.0	.158	.100	.059	.136	.086	.051	.094	.061	.036	.055	.036	.022	.018	.012	.007	
8.0	.152	.094	.054	.130	.082	.047	.090	.057	.034	.053	.034	.020	.017	.011	.007	
9.0	.146	.089	.051	.126	.077	.044	.087	.054	.031	.051	.032	.019	.016	.011	.006	
10.0	.140	.085	.048	.121	.074	.042	.084	.052	.030	.049	.031	.018	.016	.010	.006	

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-30**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**UGR(Unified Glare Rating) Table**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

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				
<b>x = 2H y = 2H</b>	<b>25.1</b>	<b>26.5</b>	<b>25.4</b>	<b>26.8</b>	<b>27.1</b>	<b>24.6</b>	<b>26.0</b>	<b>24.9</b>	<b>26.3</b>	<b>26.5</b>
<b>3H</b>	<b>26.7</b>	<b>28.0</b>	<b>27.1</b>	<b>28.3</b>	<b>28.6</b>	<b>26.0</b>	<b>27.3</b>	<b>26.3</b>	<b>27.6</b>	<b>27.9</b>
<b>4H</b>	<b>27.4</b>	<b>28.6</b>	<b>27.8</b>	<b>28.9</b>	<b>29.3</b>	<b>26.5</b>	<b>27.7</b>	<b>26.8</b>	<b>28.0</b>	<b>28.3</b>
<b>6H</b>	<b>28.0</b>	<b>29.1</b>	<b>28.3</b>	<b>29.5</b>	<b>29.8</b>	<b>26.8</b>	<b>28.0</b>	<b>27.2</b>	<b>28.3</b>	<b>28.6</b>
<b>8H</b>	<b>28.2</b>	<b>29.3</b>	<b>28.6</b>	<b>29.7</b>	<b>30.0</b>	<b>26.9</b>	<b>28.0</b>	<b>27.3</b>	<b>28.3</b>	<b>28.7</b>
<b>12H</b>	<b>28.4</b>	<b>29.5</b>	<b>28.8</b>	<b>29.8</b>	<b>30.2</b>	<b>26.9</b>	<b>28.0</b>	<b>27.3</b>	<b>28.3</b>	<b>28.7</b>
<b>4H 2H</b>	<b>25.7</b>	<b>27.0</b>	<b>26.1</b>	<b>27.3</b>	<b>27.6</b>	<b>25.3</b>	<b>26.6</b>	<b>25.7</b>	<b>26.9</b>	<b>27.2</b>
<b>3H</b>	<b>27.5</b>	<b>28.6</b>	<b>27.9</b>	<b>28.9</b>	<b>29.3</b>	<b>26.9</b>	<b>28.0</b>	<b>27.3</b>	<b>28.3</b>	<b>28.7</b>
<b>4H</b>	<b>28.3</b>	<b>29.3</b>	<b>28.7</b>	<b>29.7</b>	<b>30.1</b>	<b>27.5</b>	<b>28.5</b>	<b>27.9</b>	<b>28.9</b>	<b>29.3</b>
<b>6H</b>	<b>29.0</b>	<b>29.9</b>	<b>29.5</b>	<b>30.3</b>	<b>30.7</b>	<b>28.0</b>	<b>28.8</b>	<b>28.4</b>	<b>29.2</b>	<b>29.7</b>
<b>8H</b>	<b>29.3</b>	<b>30.1</b>	<b>29.8</b>	<b>30.6</b>	<b>31.0</b>	<b>28.1</b>	<b>28.9</b>	<b>28.5</b>	<b>29.3</b>	<b>29.8</b>
<b>12H</b>	<b>29.6</b>	<b>30.4</b>	<b>30.1</b>	<b>30.8</b>	<b>31.3</b>	<b>28.1</b>	<b>28.9</b>	<b>28.6</b>	<b>29.3</b>	<b>29.8</b>
<b>8H 4H</b>	<b>28.6</b>	<b>29.4</b>	<b>29.0</b>	<b>29.8</b>	<b>30.3</b>	<b>27.9</b>	<b>28.7</b>	<b>28.3</b>	<b>29.1</b>	<b>29.6</b>
<b>6H</b>	<b>29.5</b>	<b>30.1</b>	<b>29.9</b>	<b>30.6</b>	<b>31.1</b>	<b>28.5</b>	<b>29.1</b>	<b>29.0</b>	<b>29.6</b>	<b>30.1</b>
<b>8H</b>	<b>29.9</b>	<b>30.5</b>	<b>30.4</b>	<b>30.9</b>	<b>31.5</b>	<b>28.7</b>	<b>29.3</b>	<b>29.2</b>	<b>29.8</b>	<b>30.3</b>
<b>12H</b>	<b>30.3</b>	<b>30.8</b>	<b>30.8</b>	<b>31.3</b>	<b>31.8</b>	<b>28.8</b>	<b>29.3</b>	<b>29.3</b>	<b>29.8</b>	<b>30.4</b>
<b>12H 4H</b>	<b>28.6</b>	<b>29.3</b>	<b>29.0</b>	<b>29.8</b>	<b>30.2</b>	<b>27.9</b>	<b>28.7</b>	<b>28.4</b>	<b>29.1</b>	<b>29.6</b>
<b>6H</b>	<b>29.5</b>	<b>30.1</b>	<b>30.0</b>	<b>30.6</b>	<b>31.1</b>	<b>28.6</b>	<b>29.2</b>	<b>29.1</b>	<b>29.6</b>	<b>30.2</b>
<b>8H</b>	<b>30.0</b>	<b>30.5</b>	<b>30.5</b>	<b>31.0</b>	<b>31.5</b>	<b>28.8</b>	<b>29.3</b>	<b>29.4</b>	<b>29.8</b>	<b>30.4</b>
<b>Variations with the observer position at spacings(CIE Pub.117):</b>										
<b>S = 1.0H</b>	<b>+ 0.1 / - 0.2</b>					<b>+ 0.2 / - 0.2</b>				
<b>1.5H</b>	<b>+ 0.2 / - 0.3</b>					<b>+ 0.3 / - 0.4</b>				
<b>2.0H</b>	<b>+ 0.1 / - 0.3</b>					<b>+ 0.2 / - 0.5</b>				

CIE Pub.117, 1187 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.6)  
 Area: 0.017 m2

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**UTILIZATION FACTORS TABLE**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

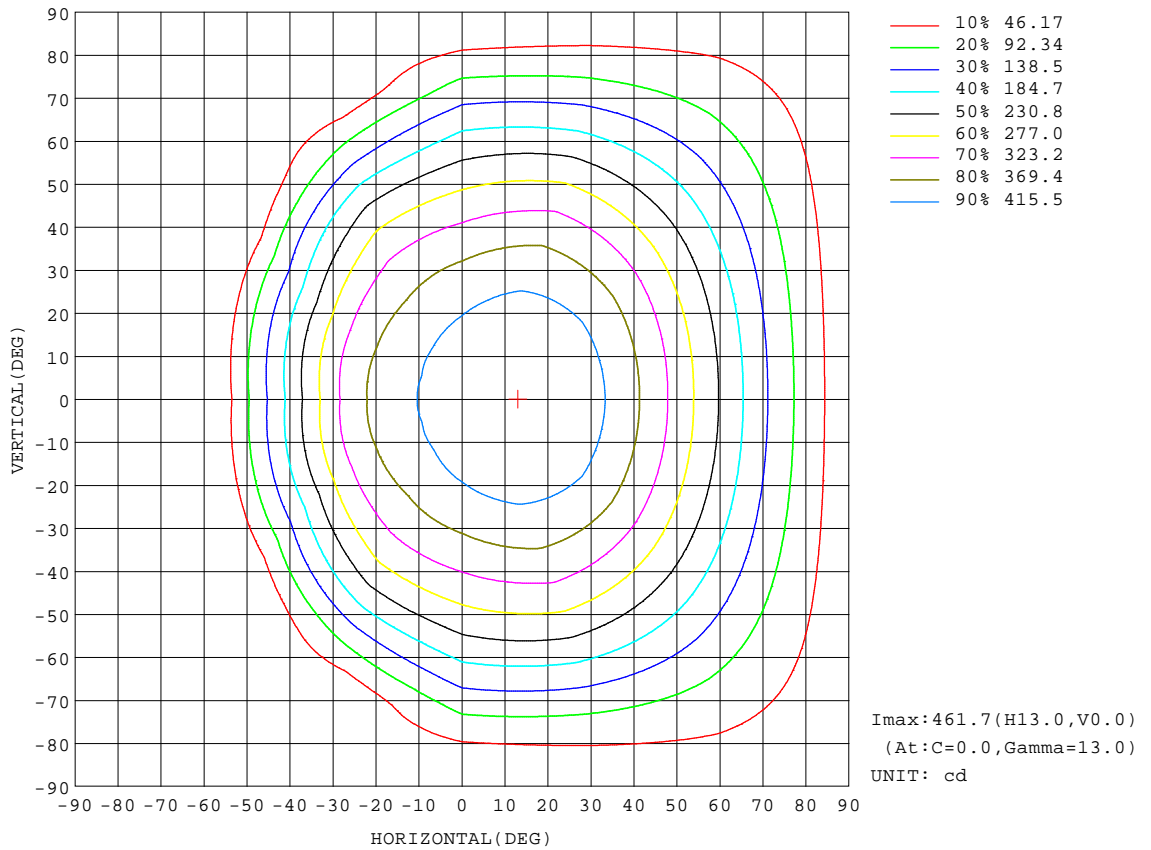
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS(PERCENT) <math>k(RI) \times RCR = 5</math></b>									
<b>k = 0.60</b>	59	48	41	58	47	41	57	47	41	34
<b>0.80</b>	69	58	51	68	57	51	66	56	50	43
<b>1.00</b>	77	67	60	76	66	59	74	67	59	52
<b>1.25</b>	84	74	67	83	73	67	80	72	66	58
<b>1.50</b>	89	80	73	87	79	72	84	76	71	63
<b>2.00</b>	95	87	81	93	86	80	90	83	78	70
<b>2.50</b>	99	92	86	97	90	85	93	87	83	74
<b>3.00</b>	102	96	90	100	94	89	95	91	87	78
<b>4.00</b>	106	101	96	103	99	94	99	95	91	82
<b>5.00</b>	108	104	100	106	101	98	101	97	94	84
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
<b>According to DIN EN 13032-2 2004</b>			<b>Suspended</b>				<b>SHRNOM = 1.25</b>			

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-30**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**ISOCANDELA DIAGRAM**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-30**

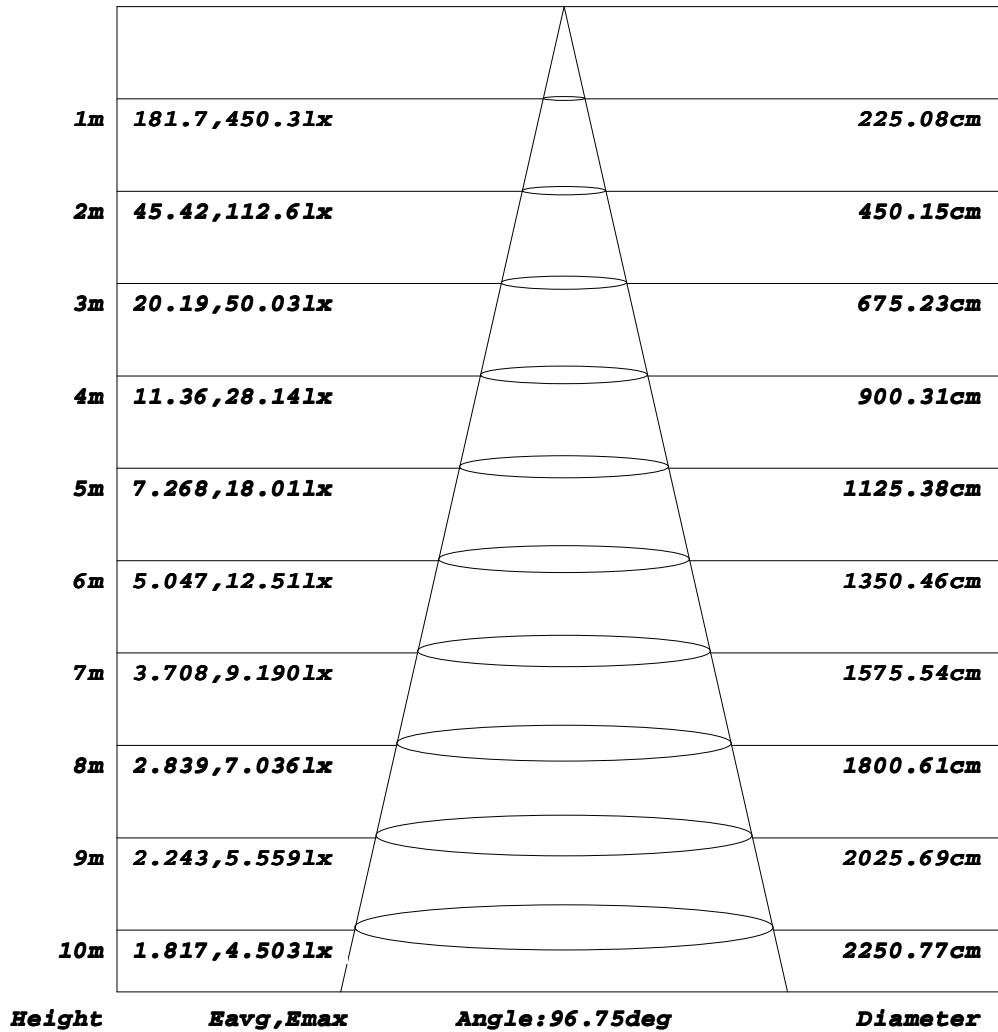
**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**



**AAI Figure**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

**Flux out:755.4 lm**



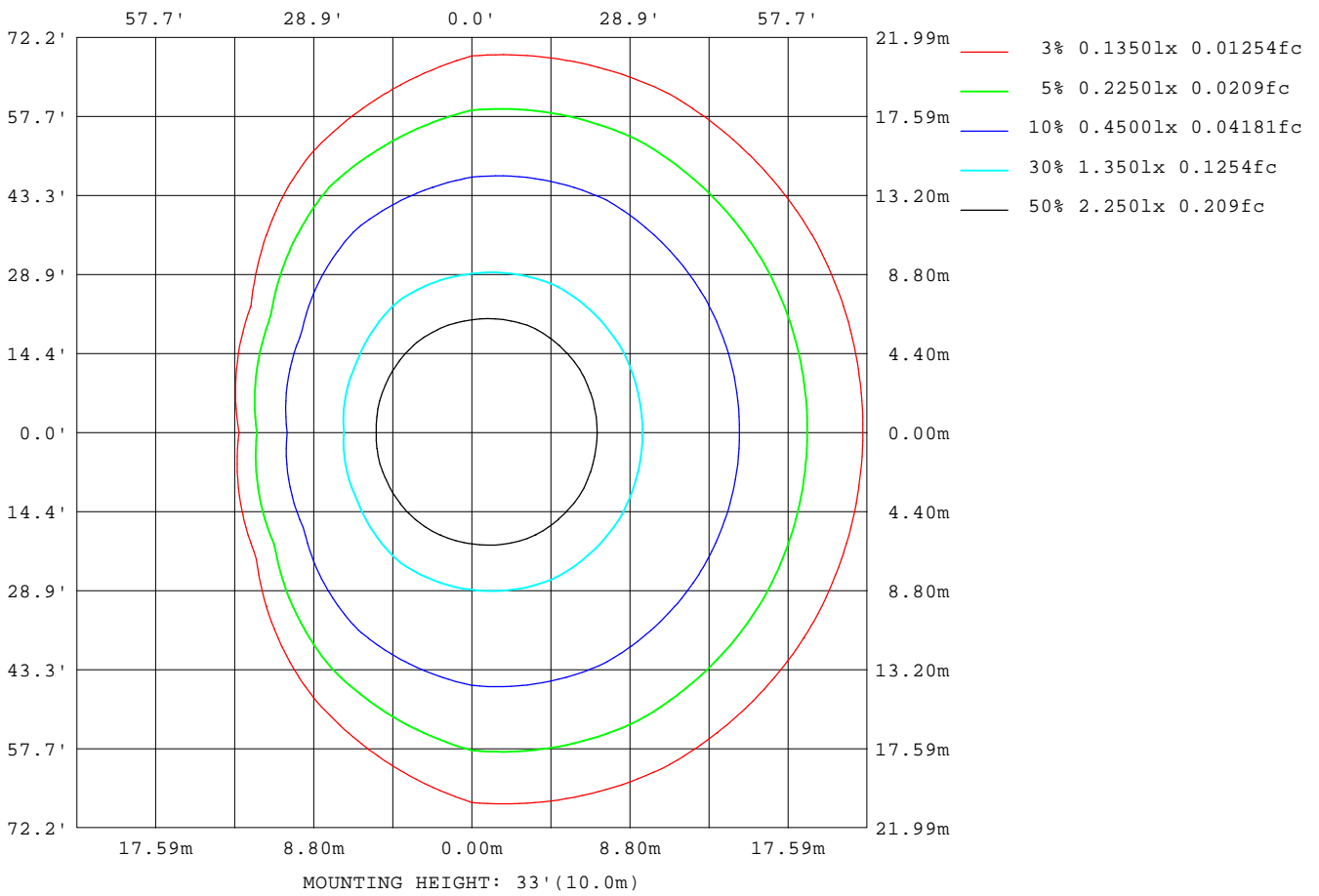
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**ISOLUX DIAGRAM**

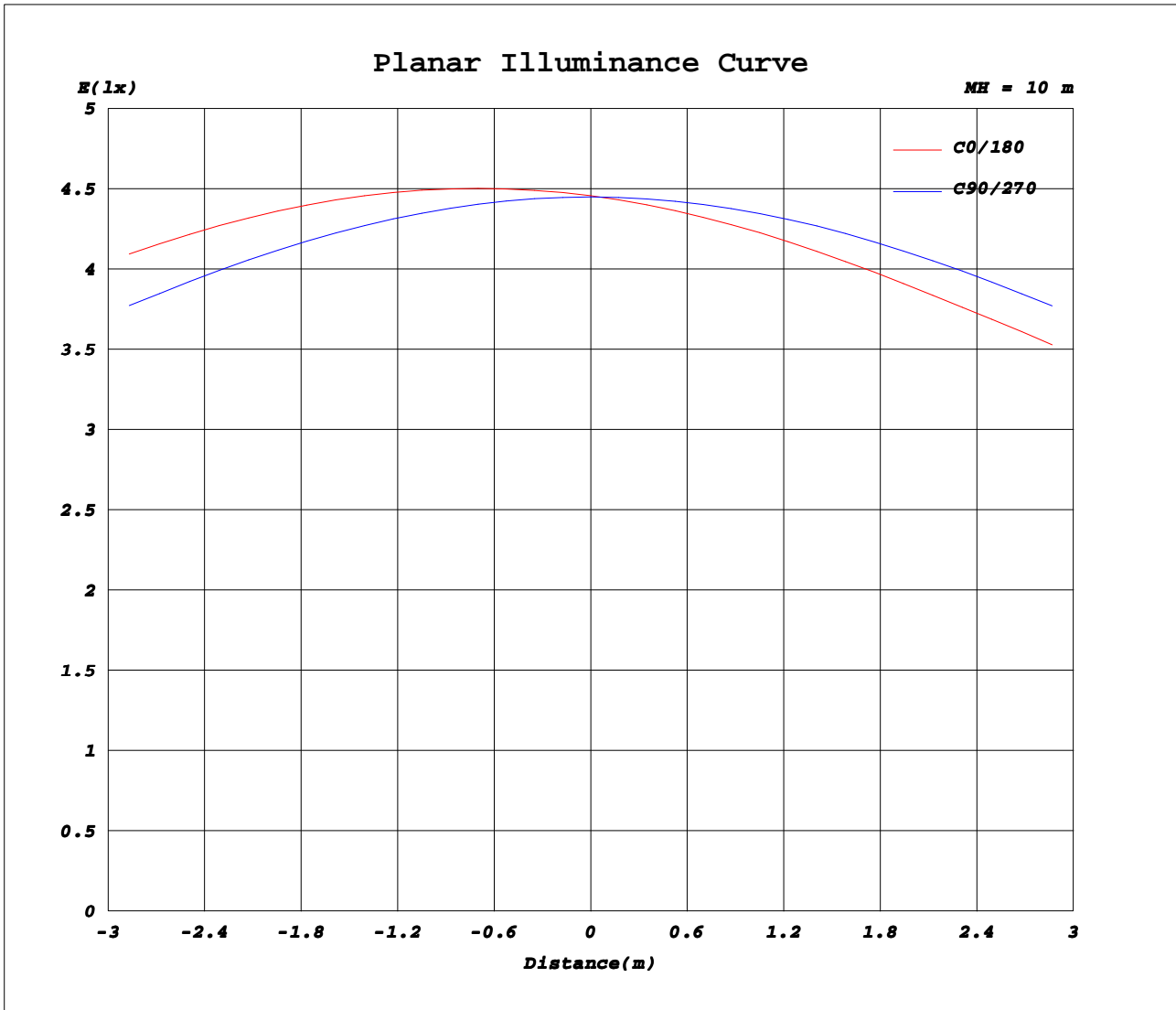
Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**Planar Illuminance Curve**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:230.90V I:0.0560A P:11.600W PF:0.9150 Freq:50.00Hz		
Lamp Flux:1186.96x1 lm		
Name: NS31-900MM-12W	Type: LED	
MFR.: Lumega Group	DIM.: 600*45*70mm	
	SUR.: 580*30mm	

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	446	445	445	445	444	444	446	445	445	445	444	444							
5	455	453	449	443	437	433	433	433	438	443	448	453							
10	461	458	449	437	425	418	417	418	426	437	448	457							
15	461	458	445	427	410	401	401	401	411	427	444	457							
20	457	452	437	413	392	383	380	384	394	414	437	452							
25	446	442	424	396	372	357	351	359	374	398	426	442							
30	430	427	407	375	349	322	308	325	354	379	411	427							
35	407	406	387	351	322	276	255	281	329	355	392	406							
40	378	378	362	324	290	222	197	229	299	329	368	379							
45	343	345	333	295	251	167	141	175	263	300	340	347							
50	307	309	302	263	207	113	86.5	122	222	268	308	311							
55	268	270	264	229	157	58.4	30.9	68.4	174	235	271	273							
60	228	229	223	192	107	11.8	2.41	20.9	124	201	231	233							
65	188	187	181	155	58.7	1.51	1.86	4.40	77.9	165	189	192							
70	148	146	137	117	14.7	1.38	1.91	3.87	32.4	127	147	151							
75	109	107	95.0	79.0	2.99	1.47	2.04	3.55	8.39	89.4	105	112							
80	72.5	70.4	57.2	43.8	2.37	1.69	2.24	3.38	6.30	53.6	67.8	75.3							
85	42.7	39.7	28.1	15.5	2.36	1.98	2.56	3.39	5.15	23.9	36.0	44.2							
90	22.4	19.7	11.4	4.01	2.67	2.36	2.98	3.66	4.78	5.76	16.4	23.2							
95	12.0	10.2	5.56	4.83	3.06	2.82	3.43	4.07	5.01	6.93	8.70	12.6							
100	6.61	5.91	3.50	4.23	3.44	3.30	3.92	4.50	5.33	6.85	6.06	7.58							
105	4.48	3.89	2.71	3.89	3.84	3.81	4.44	4.95	5.70	5.17	4.84	5.52							
110	3.23	2.76	2.95	3.73	4.26	4.33	4.95	5.39	6.18	5.20	4.86	4.10							
115	2.27	2.59	3.33	4.16	4.72	4.86	5.45	5.84	6.49	5.36	5.12	3.65							
120	2.74	3.05	3.75	4.61	5.20	5.38	5.94	6.26	6.76	5.70	5.39	4.00							
125	3.31	3.57	4.19	5.06	5.66	5.88	6.39	6.65	7.07	5.97	5.65	4.45							
130	3.91	4.10	4.65	5.52	6.13	6.38	6.81	7.03	7.33	6.31	5.87	4.89							
135	4.48	4.61	5.10	5.97	6.57	6.83	7.19	7.38	7.54	6.64	6.09	5.32							
140	5.03	5.11	5.57	6.44	7.01	7.27	7.54	7.69	7.83	7.00	6.41	5.70							
145	5.54	5.61	6.07	6.90	7.43	7.67	7.87	7.99	8.09	7.39	6.76	6.11							
150	6.05	6.14	6.60	7.36	7.85	8.03	8.15	8.29	8.36	7.78	7.14	6.56							
155	6.58	6.70	7.14	7.81	8.25	8.38	8.44	8.57	8.56	8.15	7.47	7.06							
160	7.17	7.28	7.67	8.24	8.61	8.70	8.74	8.81	8.83	8.50	7.90	7.57							
165	7.81	7.87	8.18	8.65	8.93	8.99	9.00	9.01	9.08	8.82	8.33	8.09							
170	8.40	8.37	8.64	8.98	9.18	9.21	9.18	9.16	9.25	9.08	8.73	8.53							
175	8.85	8.80	9.02	9.23	9.33	9.32	9.18	9.19	9.29	9.23	9.04	8.88							
180	9.15	9.11	9.26	9.33	9.29	9.22	9.15	9.11	9.26	9.33	9.29	9.22							

**C Range: 0 - 360DEG**  
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**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-30**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**