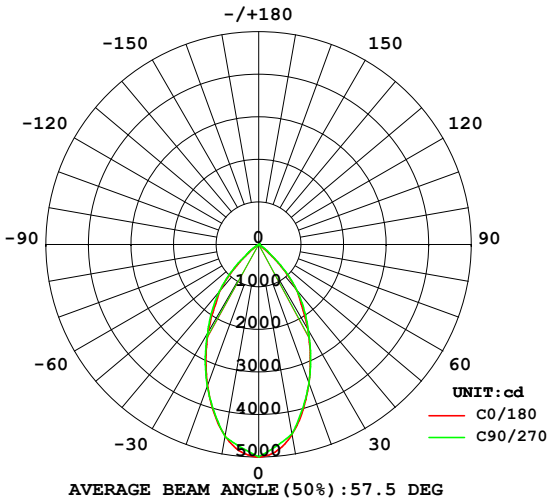
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.4V I:0.1950A P:45.03W PF:0.9612 Lamp Flux:5250x1 lm		
NAME: Coaste	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:1#
MFR.: ELEKO	SUR.:	PROTECTION ANGLE:

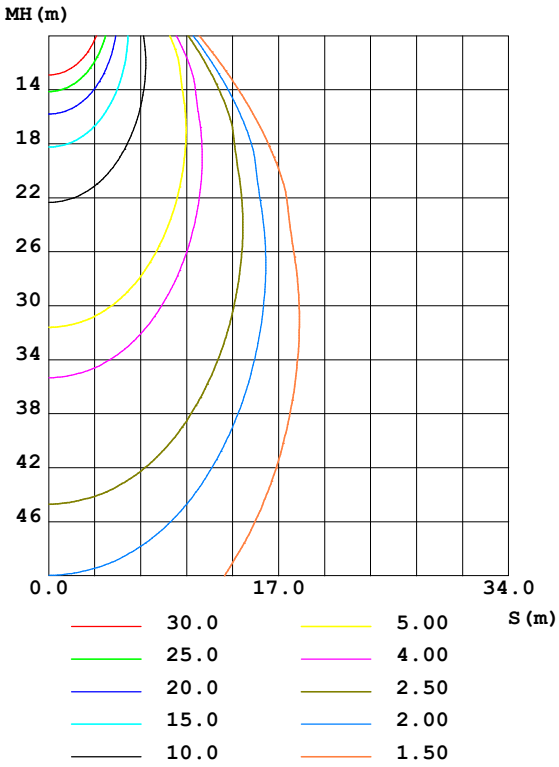
DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.79 lm/W			
MODEL		Imax(cd)	4993	S/MH(C0/180)	0.84
NOMINAL POWER(W)	46	LOR(%)	91.6	S/MH(C90/270)	0.85
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	4809.1	η UP,DN(C0-180)	0.0,46.2
NOMINAL FLUX(lm)	5250	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,45.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240.3	η down(%)	91.6	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):57.5 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

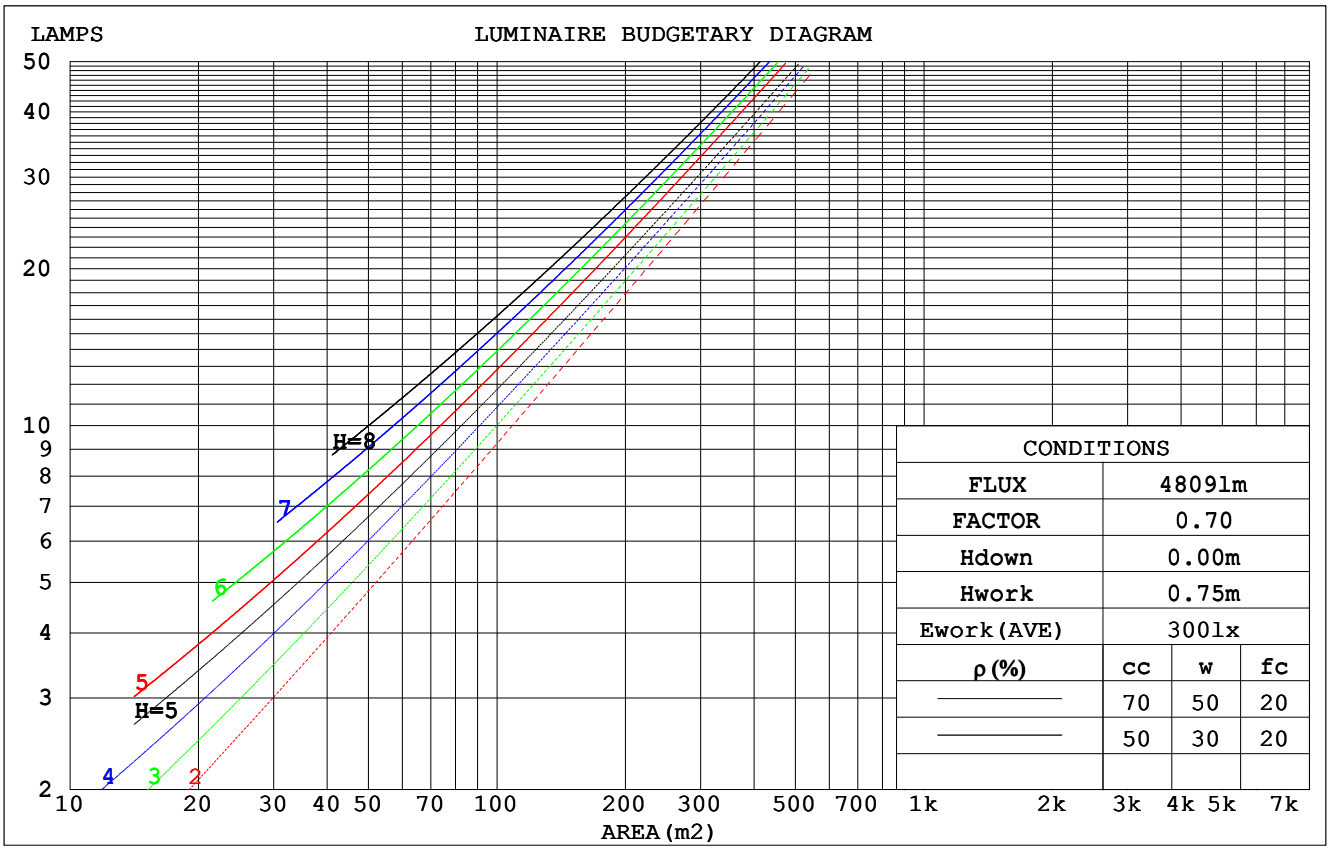
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	4886	4795	4789	4789	4872	4768	4760	4777	0- 5	116.5	116.5	2.42,2.22
10	4572	4504	4585	4484	4533	4436	4526	4472	5- 10	332.1	448.5	9.33,8.54
15	4088	4092	4064	4067	4032	4001	3995	4055	10- 15	505.3	953.8	19.8,18.2
20	3518	3501	3542	3478	3461	3405	3463	3465	15- 20	615.9	1570	32.6,29.9
25	2936	2936	2974	2916	2873	2838	2898	2903	20- 25	666.6	2236	46.5,42.6
30	2376	2381	2405	2365	2317	2295	2334	2351	25- 30	661.6	2898	60.3,55.2
35	1823	1862	1922	1852	1776	1796	1861	1836	30- 35	610.9	3509	73,66.8
40	1405	1408	1440	1405	1366	1358	1389	1394	35- 40	529.3	4038	84,76.9
45	844.3	870.9	915.3	869.4	805.6	825.3	873.2	861.3	40- 45	406.8	4445	92.4,84.7
50	308.8	372.5	390.7	372.5	281.2	341.4	357.9	367.3	45- 50	237.0	4682	97.4,89.2
55	17.69	125.9	198.8	124.8	14.26	116.4	184.5	125.9	50- 55	88.48	4770	99.2,90.9
60	5.970	6.227	6.864	7.411	7.673	10.12	11.17	9.192	55- 60	22.25	4793	99.7,91.3
65	4.582	4.904	5.653	6.123	6.447	9.464	10.46	8.522	60- 65	4.402	4797	99.8,91.4
70	3.651	3.857	4.442	5.090	5.357	8.981	9.747	8.181	65- 70	3.337	4800	99.8,91.4
75	2.967	3.056	3.764	4.262	4.480	8.621	9.250	8.093	70- 75	3.093	4804	99.9,91.5
80	2.509	2.568	3.086	3.732	3.888	8.254	8.752	7.963	75- 80	2.939	4806	99.9,91.6
85	0.4661	0.9473	0	1.415	0.5373	3.296	0	3.236	80- 85	2.172	4809	100,91.6
90	0.2613	0	0	0	0.1851	0	0	0	85- 90	0.4168	4809	100,91.6
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρcc	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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	.97	.97	.97	.93	.93	.93	.92
1.0	1.01	.99	.96	.99	.97	.95	.95	.93	.92	.92	.90	.89	.89	.88	.87	.85
2.0	.93	.89	.86	.92	.88	.85	.89	.86	.83	.86	.83	.81	.83	.81	.80	.78
3.0	.86	.81	.77	.85	.80	.77	.83	.79	.76	.80	.77	.74	.78	.76	.73	.72
4.0	.80	.75	.70	.79	.74	.70	.77	.73	.69	.75	.71	.68	.73	.70	.67	.66
5.0	.74	.69	.64	.73	.68	.64	.72	.67	.63	.70	.66	.63	.69	.65	.62	.61
6.0	.69	.63	.59	.68	.63	.59	.67	.62	.58	.66	.61	.58	.64	.61	.58	.56
7.0	.65	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.60	.56	.53	.52
8.0	.60	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.50	.57	.53	.50	.48
9.0	.57	.51	.47	.56	.51	.47	.55	.50	.47	.54	.50	.47	.54	.49	.46	.45
10.0	.53	.48	.44	.53	.47	.44	.52	.47	.44	.51	.47	.44	.51	.46	.43	.42



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

WEC AND CCEC

ρcc	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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.173	.098	.031	.167	.095	.030	.155	.089	.028	.145	.083	.027	.135	.078	.025	
2.0	.167	.092	.028	.162	.089	.028	.152	.085	.026	.143	.080	.025	.135	.076	.024	
3.0	.160	.085	.026	.156	.083	.025	.147	.080	.024	.140	.077	.023	.132	.073	.023	
4.0	.153	.080	.023	.149	.078	.023	.142	.075	.022	.135	.073	.022	.129	.070	.021	
5.0	.146	.075	.022	.143	.073	.021	.136	.071	.021	.130	.069	.020	.125	.067	.020	
6.0	.140	.070	.020	.137	.069	.020	.131	.067	.020	.126	.065	.019	.121	.064	.019	
7.0	.133	.066	.019	.131	.065	.019	.126	.064	.018	.121	.062	.018	.116	.060	.018	
8.0	.127	.062	.018	.125	.062	.017	.121	.060	.017	.116	.059	.017	.112	.058	.017	
9.0	.122	.059	.016	.120	.058	.016	.116	.057	.016	.112	.056	.016	.108	.055	.016	
10.0	.117	.056	.016	.115	.055	.015	.111	.054	.015	.108	.053	.015	.104	.052	.015	

ρcc	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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.174	.174	.174	.149	.149	.149	.102	.102	.102	.058	.058	.058	.019	.019	.019	
1.0	.158	.144	.132	.135	.124	.113	.092	.085	.078	.053	.049	.046	.017	.016	.015	
2.0	.144	.121	.102	.124	.104	.088	.085	.072	.061	.049	.042	.036	.016	.014	.012	
3.0	.134	.104	.080	.115	.090	.070	.079	.062	.049	.046	.036	.029	.015	.012	.009	
4.0	.125	.091	.065	.107	.078	.056	.074	.055	.040	.043	.032	.023	.014	.010	.008	
5.0	.118	.080	.053	.101	.070	.046	.070	.049	.032	.040	.029	.019	.013	.009	.006	
6.0	.111	.072	.044	.096	.062	.038	.066	.044	.027	.038	.026	.016	.012	.008	.005	
7.0	.106	.065	.037	.091	.057	.032	.063	.040	.023	.036	.023	.014	.012	.008	.005	
8.0	.101	.060	.032	.087	.052	.028	.060	.036	.020	.035	.021	.012	.011	.007	.004	
9.0	.096	.055	.028	.083	.048	.024	.057	.034	.017	.033	.020	.010	.011	.007	.003	
10.0	.092	.051	.024	.079	.044	.021	.055	.031	.015	.032	.018	.009	.010	.006	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

Uncorrected UGR 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	20.8	21.8	21.0	22.0	22.2	21.3	22.4	21.6	22.6	22.7
3H	20.6	21.5	20.9	21.7	22.0	21.2	22.1	21.4	22.3	22.5
4H	20.5	21.4	20.8	21.6	21.9	21.1	22.0	21.4	22.2	22.4
6H	20.4	21.2	20.7	21.5	21.7	21.0	21.8	21.3	22.1	22.3
8H	20.4	21.2	20.7	21.4	21.7	20.9	21.7	21.2	22.0	22.3
12H	20.3	21.1	20.6	21.4	21.6	20.9	21.7	21.2	21.9	22.2
4H 2H	20.5	21.4	20.8	21.6	21.9	21.1	22.0	21.4	22.2	22.4
3H	20.3	21.1	20.7	21.4	21.7	20.9	21.7	21.2	21.9	22.2
4H	20.2	20.9	20.6	21.2	21.5	20.8	21.5	21.2	21.8	22.1
6H	20.1	20.8	20.5	21.1	21.4	20.7	21.3	21.1	21.7	22.0
8H	20.1	20.7	20.5	21.0	21.4	20.7	21.2	21.1	21.6	21.9
12H	20.1	20.6	20.5	20.9	21.3	20.6	21.1	21.0	21.5	21.9
8H 4H	20.1	20.7	20.5	21.0	21.4	20.7	21.2	21.1	21.6	21.9
6H	20.0	20.5	20.4	20.9	21.3	20.6	21.0	21.0	21.4	21.8
8H	20.0	20.4	20.4	20.8	21.2	20.5	20.9	21.0	21.3	21.8
12H	19.9	20.2	20.4	20.7	21.2	20.5	20.8	20.9	21.2	21.7
12H 4H	20.1	20.6	20.5	20.9	21.3	20.6	21.1	21.0	21.5	21.9
6H	20.0	20.4	20.4	20.8	21.2	20.5	20.9	21.0	21.3	21.8
8H	19.9	20.2	20.4	20.7	21.2	20.5	20.8	20.9	21.2	21.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / -20.8					+ 2.4 / - 9.6				
1.5H	+ 3.5 / -13.6					+ 3.2 / -11.4				
2.0H	+ 7.3 / -18.0					+ 6.3 / -19.3				

CIE Pub.117 Corrected 5250 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.8)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

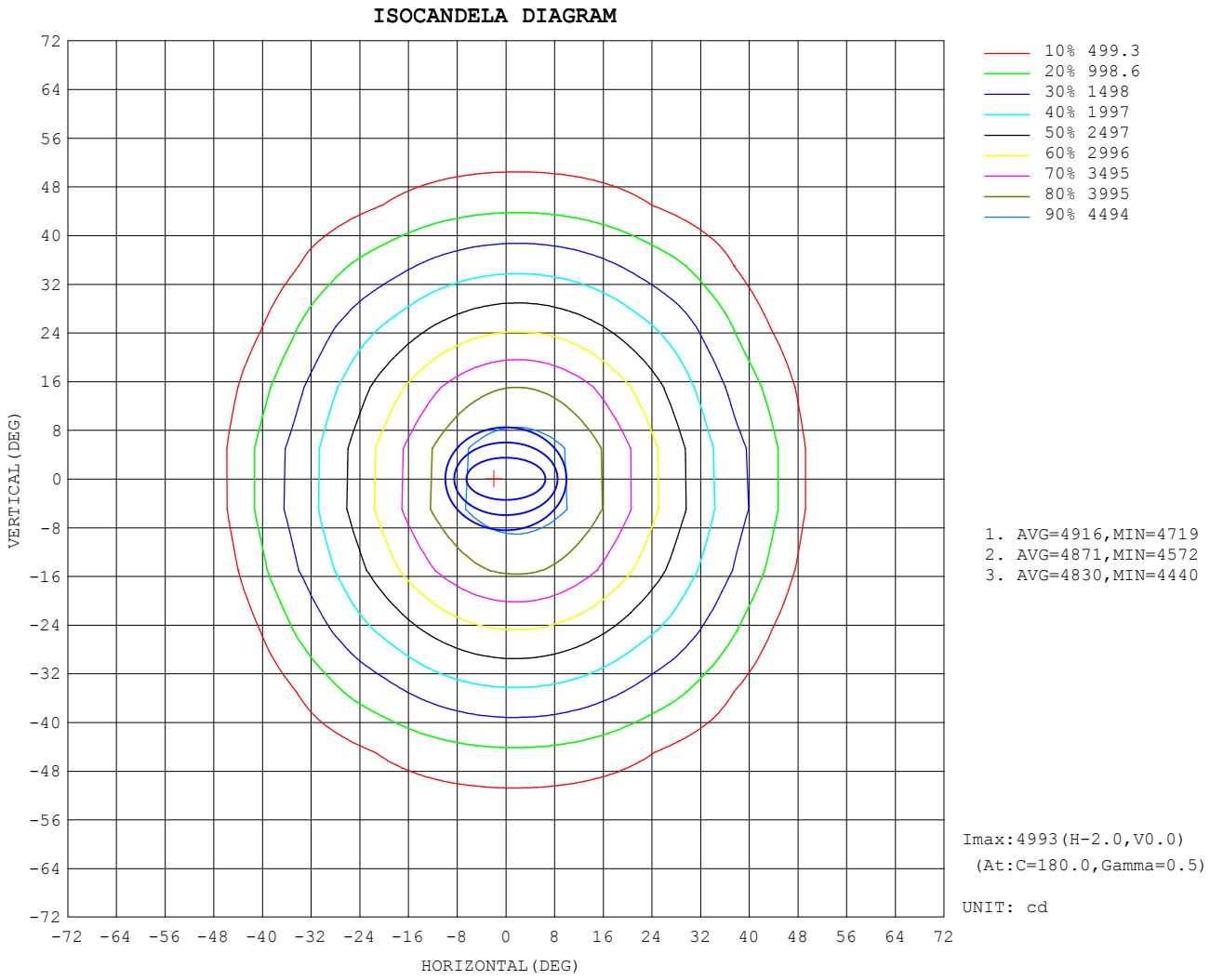
UTILIZATION FACTORS TABLE

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) x RCR = 5									
k = 0.60	74	68	64	74	68	64	73	67	63	60
0.80	82	76	72	82	76	72	80	75	71	68
1.00	88	82	78	87	81	78	85	81	77	73
1.25	92	87	83	91	86	83	89	85	82	78
1.50	95	90	87	94	89	86	92	88	85	81
2.00	98	94	91	97	93	90	94	91	89	83
2.50	100	96	93	98	95	92	95	93	90	85
3.00	101	98	95	100	97	94	97	94	92	86
4.00	103	100	98	101	99	97	98	96	94	88
5.00	105	102	100	103	100	99	99	97	96	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

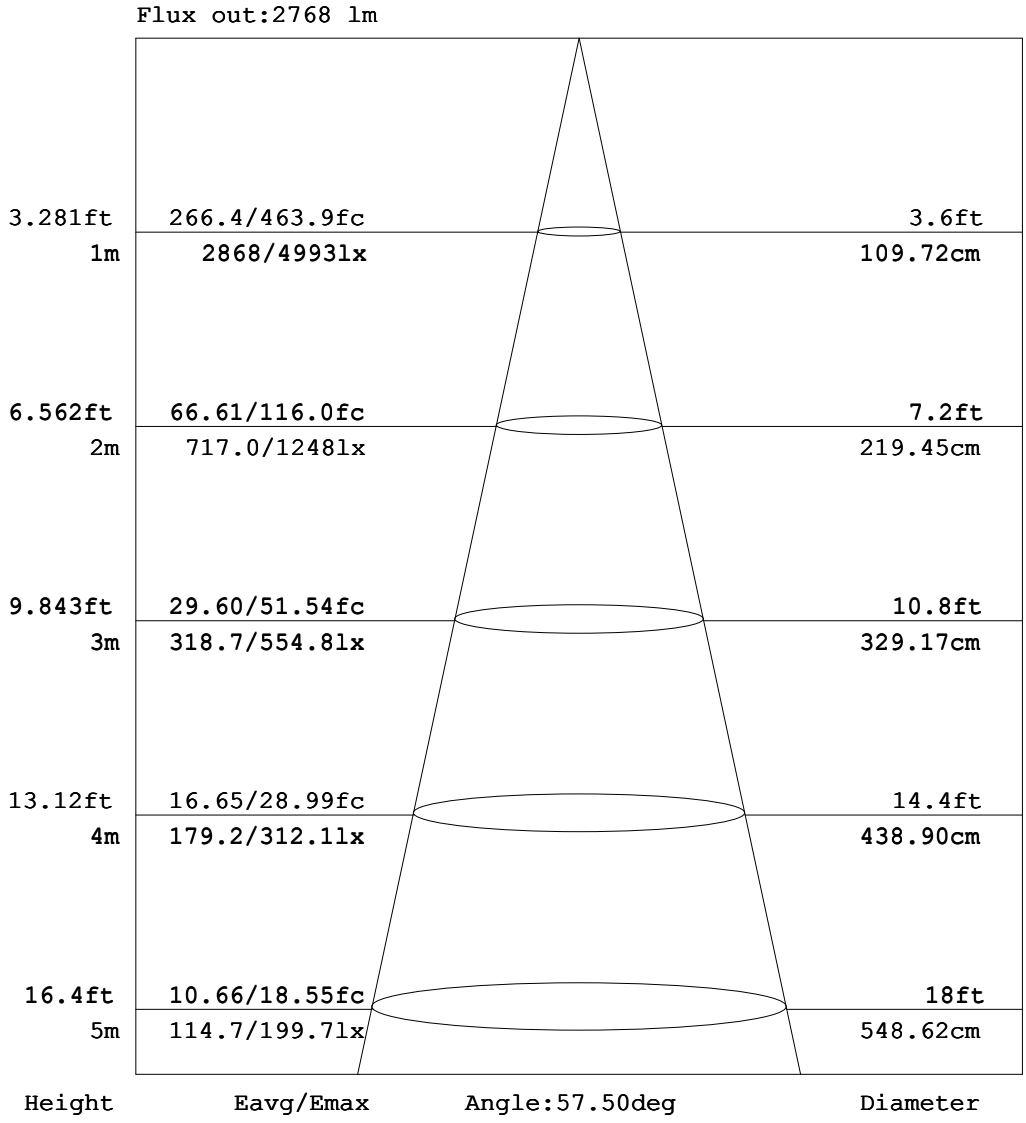
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

AAI Figure

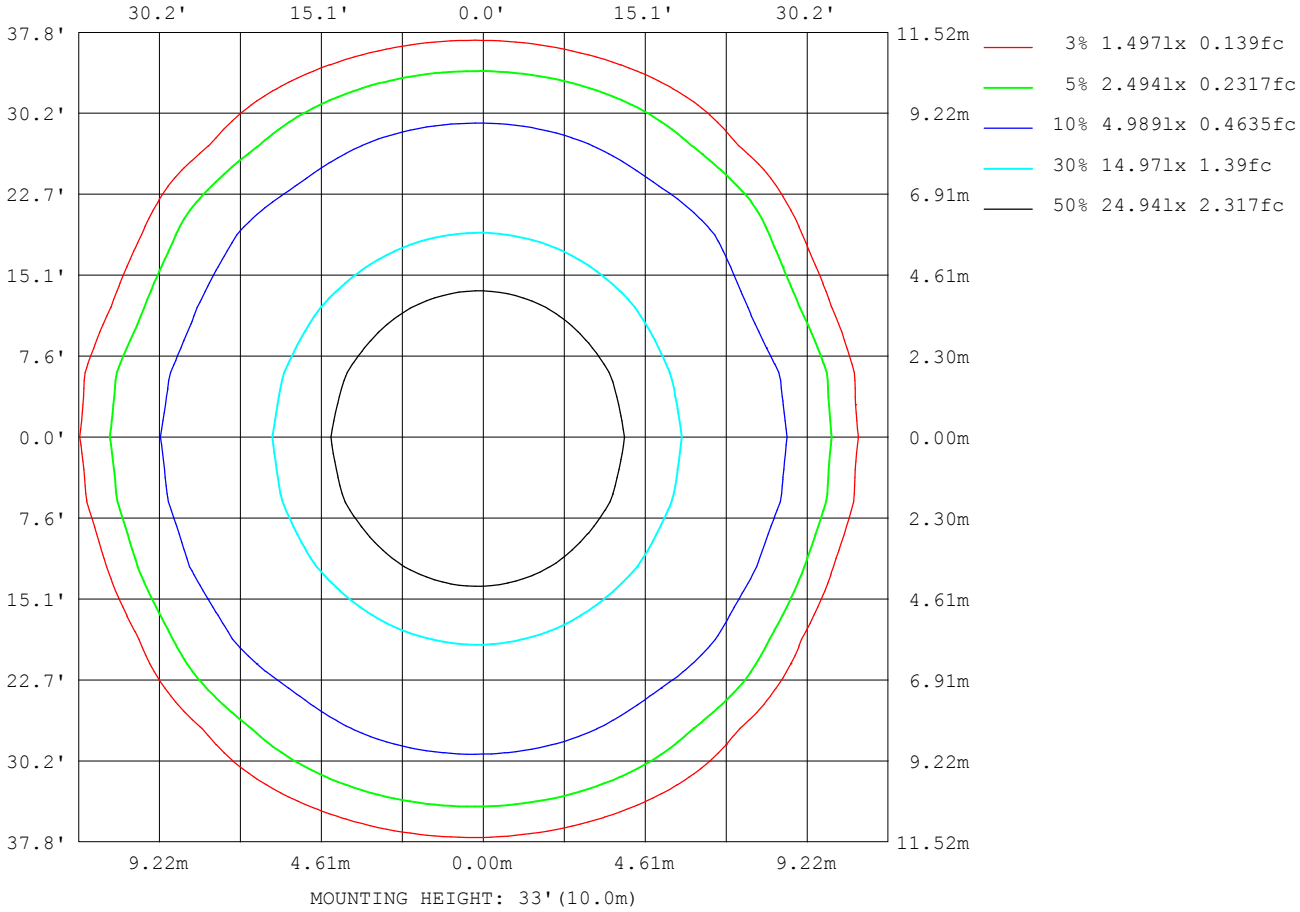


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	5250	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.03	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	1028	1668	2986	4057	5742	6622	5468	9265	11084	11552	11163	9366	5552	6704	5468	3373	2187	1388	829
60	398	390	400	406	1072	428	2255	2635	1293	458	1316	2689	2321	496	1020	505	509	504	512
65	361	360	371	377	382	388	395	418	433	446	456	463	463	475	488	499	504	500	509
70	356	354	366	372	372	378	381	405	417	433	448	465	470	489	502	522	529	519	522
75	382	385	403	404	399	389	401	439	463	485	501	519	520	540	562	586	599	588	577
80	482	480	506	506	493	492	495	534	566	592	618	652	673	704	725	747	753	713	746
85	178	543	623	776	473	273	144	66	17	0	19	81	198	398	725	1245	885	692	205

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	11552	200	---	500
Category 2	65 to 90	1245	200	---	500
Category 3	75 to 90	1245	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993
5	4886	4870	4855	4842	4830	4821	4812	4805	4799	4795	4792	4791	4790	4790	4789	4788	4789	4790	4789
10	4572	4542	4518	4501	4490	4485	4485	4488	4495	4504	4517	4529	4542	4553	4566	4575	4581	4585	4585
15	4088	4052	4028	4016	4014	4025	4042	4065	4096	4092	4083	4077	4071	4069	4068	4067	4068	4066	4064
20	3518	3482	3464	3462	3478	3505	3531	3511	3502	3501	3505	3509	3519	3526	3534	3539	3544	3545	3542
25	2936	2901	2890	2899	2928	2932	2920	2920	2926	2936	2951	2955	2959	2964	2968	2972	2974	2975	2974
30	2376	2346	2343	2361	2369	2352	2357	2371	2389	2381	2381	2385	2392	2399	2404	2404	2405	2406	2405
35	1823	1799	1804	1832	1826	1822	1829	1848	1866	1862	1848	1848	1863	1880	1897	1908	1916	1921	1922
40	1405	1379	1390	1369	1344	1370	1357	1357	1388	1408	1371	1357	1374	1397	1415	1427	1434	1438	1440
45	844	822	846	805	790	791	798	821	869	871	868	872	896	911	917	918	916	915	915
50	309	300	315	305	302	306	313	356	372	373	419	439	441	430	417	405	396	391	391
55	17.7	19.3	28.7	39.3	51.4	48.4	69.8	63.8	98.8	126	114	79.9	94.1	131	159	179	191	197	199
60	5.97	5.92	5.85	5.87	6.00	6.08	6.08	6.66	16.1	6.23	6.41	17.9	33.8	41.3	39.5	30.7	19.4	10.3	6.86
65	4.58	4.54	4.56	4.57	4.70	4.76	4.77	4.77	4.84	4.90	4.92	4.92	5.00	5.13	5.31	5.40	5.49	5.57	5.65
70	3.65	3.63	3.64	3.64	3.76	3.77	3.81	3.80	3.81	3.86	3.87	3.88	3.90	3.99	4.15	4.22	4.28	4.36	4.44
75	2.97	2.98	2.99	3.05	3.13	3.11	3.14	3.11	3.10	3.06	3.02	3.06	3.11	3.22	3.40	3.51	3.60	3.68	3.76
80	2.51	2.55	2.50	2.53	2.63	2.68	2.64	2.58	2.57	2.57	2.56	2.58	2.58	2.68	2.78	2.86	2.95	3.00	3.09
85	0.47	1.14	1.42	1.76	1.63	1.90	2.03	1.59	1.24	0.95	0.71	0.53	0.38	0.26	0.17	0.10	0.04	0.01	0.00
90	0.26	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	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993
5	4790	4788	4788	4787	4786	4788	4787	4787	4789	4793	4798	4803	4809	4818	4829	4841	4856	4872	4853
10	4582	4577	4569	4557	4542	4528	4513	4498	4484	4470	4461	4455	4455	4459	4468	4483	4504	4533	4499
15	4064	4063	4059	4056	4057	4055	4055	4059	4067	4065	4031	4003	3983	3971	3968	3977	3998	4032	3990
20	3543	3539	3531	3526	3515	3505	3495	3484	3478	3473	3479	3492	3462	3429	3412	3411	3427	3461	3418
25	2974	2970	2968	2961	2956	2950	2943	2935	2916	2901	2888	2884	2889	2879	2846	2835	2843	2873	2832
30	2404	2405	2404	2400	2394	2384	2375	2368	2365	2365	2344	2324	2315	2323	2312	2288	2289	2317	2278
35	1920	1917	1907	1895	1878	1857	1838	1840	1852	1851	1825	1805	1796	1788	1786	1761	1756	1776	1746
40	1439	1439	1432	1419	1399	1373	1356	1371	1405	1380	1347	1353	1364	1329	1338	1343	1335	1366	1322
45	916	919	921	920	914	901	876	870	869	860	819	788	777	766	761	789	774	806	779
50	393	398	407	420	433	443	442	421	373	368	344	293	279	269	263	273	266	281	272
55	197	192	181	161	132	95.5	81.1	115	125	94.1	54.0	58.0	29.0	37.6	21.8	23.9	15.9	14.3	14.8
60	10.4	19.7	31.3	40.3	42.1	34.8	19.1	7.44	7.41	15.3	7.57	7.58	7.64	7.64	7.56	7.56	7.63	7.67	7.70
65	5.72	5.78	5.81	5.87	5.87	5.87	5.90	6.02	6.12	6.19	6.24	6.33	6.39	6.39	6.30	6.34	6.39	6.45	6.48
70	4.51	4.59	4.67	4.77	4.78	4.83	4.92	5.02	5.09	5.15	5.25	5.35	5.40	5.43	5.34	5.33	5.33	5.36	5.38
75	3.82	3.89	3.96	4.03	4.02	4.04	4.11	4.19	4.26	4.36	4.46	4.55	4.62	4.65	4.54	4.57	4.48	4.48	4.55
80	3.14	3.22	3.32	3.40	3.46	3.51	3.57	3.67	3.73	3.78	3.83	3.89	3.95	3.92	3.79	3.71	3.91	3.89	3.85
85	0.01	0.05	0.11	0.21	0.34	0.52	0.74	1.04	1.42	1.90	2.51	3.26	3.01	2.31	2.46	1.81	1.25	0.54	2.71
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	0.00	0.19	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3 UNIT: cd

γ (DEG) \ C(DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993
5	4836	4820	4807	4796	4787	4780	4773	4768	4764	4761	4761	4759	4760	4760	4760	4760	4760	4760	4761
10	4472	4452	4437	4427	4422	4424	4428	4436	4447	4458	4473	4485	4500	4510	4519	4526	4526	4527	4527
15	3960	3943	3938	3941	3955	3976	4004	4001	3991	3983	3982	3981	3983	3986	3991	3995	3995	3999	4001
20	3392	3383	3389	3410	3431	3414	3405	3405	3408	3412	3422	3429	3439	3446	3453	3461	3463	3468	3471
25	2814	2817	2840	2844	2829	2825	2828	2838	2853	2859	2864	2869	2875	2883	2889	2896	2898	2903	2907
30	2266	2281	2287	2266	2267	2282	2300	2295	2292	2297	2306	2314	2318	2324	2327	2330	2334	2339	2345
35	1741	1755	1735	1733	1752	1762	1791	1796	1783	1773	1786	1805	1823	1837	1849	1857	1861	1864	1863
40	1316	1289	1251	1256	1266	1287	1331	1358	1322	1301	1311	1335	1357	1371	1382	1386	1389	1391	1391
45	798	741	705	711	736	790	828	825	822	823	847	862	871	873	873	872	873	877	881
50	286	274	273	280	295	330	346	341	387	407	409	399	385	372	363	358	358	361	369
55	23.4	31.0	42.8	43.3	65.3	54.1	88.7	116	105	68.6	81.4	116	144	163	175	182	185	184	179
60	7.77	8.02	8.33	8.73	9.09	9.50	17.2	10.1	10.5	17.0	32.1	40.1	39.6	32.4	22.5	14.3	11.2	14.3	22.6
65	6.56	6.95	7.54	8.02	8.45	8.81	9.17	9.46	9.68	9.86	9.93	10.2	10.4	10.5	10.5	10.5	10.5	10.4	10.4
70	5.64	6.30	7.12	7.72	8.11	8.40	8.76	8.98	9.14	9.29	9.38	9.59	9.74	9.78	9.78	9.77	9.75	9.73	9.70
75	5.18	6.19	7.11	7.67	8.02	8.26	8.47	8.62	8.70	8.78	8.91	9.08	9.21	9.25	9.27	9.27	9.25	9.25	9.22
80	5.15	6.57	7.52	7.96	8.14	8.12	8.15	8.25	8.32	8.38	8.49	8.65	8.71	8.74	8.77	8.76	8.75	8.76	8.75
85	5.14	6.54	6.79	7.12	7.38	5.66	4.31	3.30	2.47	1.81	1.29	0.88	0.55	0.31	0.13	0.03	0.00	0.03	0.13
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	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4 UNIT: cd

γ (DEG) \ C(DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993	4993				
5	4761	4763	4765	4766	4768	4771	4777	4783	4791	4800	4811	4822	4835	4850	4867				
10	4520	4516	4509	4499	4491	4482	4472	4465	4461	4462	4466	4475	4490	4512	4539				
15	4007	4012	4016	4021	4028	4039	4055	4062	4033	4016	4004	3998	4004	4021	4048				
20	3473	3468	3468	3468	3465	3462	3465	3470	3483	3506	3484	3461	3451	3456	3478				
25	2907	2909	2910	2910	2913	2911	2903	2894	2892	2899	2916	2910	2886	2880	2896				
30	2347	2353	2352	2352	2349	2346	2351	2355	2334	2320	2320	2332	2328	2323	2337				
35	1859	1852	1842	1828	1818	1827	1836	1833	1807	1754	1741	1752	1777	1762	1778				
40	1387	1379	1365	1347	1338	1356	1394	1368	1303	1261	1239	1244	1306	1354	1364				
45	886	889	887	877	857	856	861	869	831	758	729	739	787	848	823				
50	381	397	415	427	429	411	367	372	357	324	306	302	306	318	303				
55	168	150	123	88.4	75.9	113	126	98.7	65.3	73.7	51.5	50.6	40.9	30.4	20.2				
60	33.0	41.0	42.3	34.4	19.0	9.60	9.19	18.5	8.75	7.77	7.31	6.79	6.37	6.08	6.00				
65	10.3	10.1	9.79	9.40	9.08	8.81	8.52	8.15	7.68	7.16	6.53	5.91	5.20	4.81	4.71				
70	9.64	9.51	9.22	8.92	8.71	8.46	8.18	7.82	7.45	6.91	6.27	5.53	4.64	3.93	3.66				
75	9.15	9.06	8.84	8.60	8.43	8.28	8.09	7.84	7.53	7.11	6.58	5.79	4.73	3.64	3.02				
80	8.70	8.69	8.56	8.35	8.21	8.11	7.96	7.79	7.65	7.51	7.09	6.46	5.32	3.76	2.41				
85	0.30	0.55	0.87	1.27	1.78	2.44	3.24	4.23	5.50	7.03	6.79	6.42	6.01	4.75	2.31				
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				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:SU
Test Date:2016-07-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks: