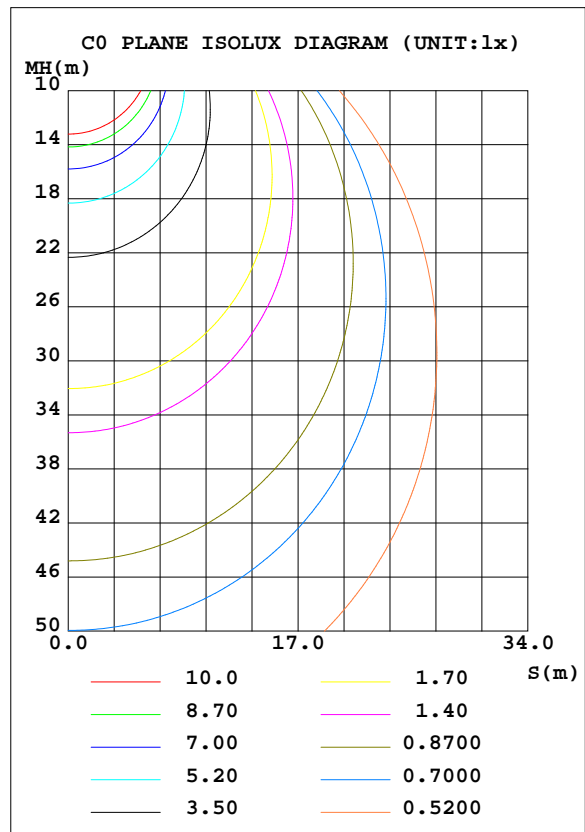
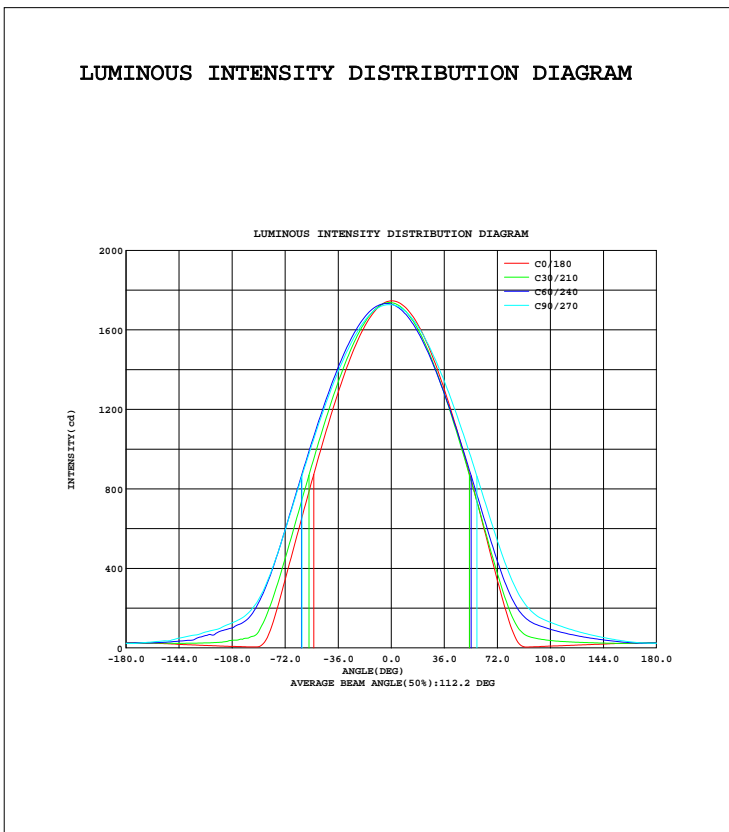


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.7V I:0.3453A P:42.40W PF:0.5300 Lamp Flux:5489.4x1 lm		
NAME: Tri proof-FIST-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.47 lm/W			
MODEL		I _{max} (cd)	1746	S/MH(C0/180)	1.21
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5489.4	η UP, DN(C0-180)	3.6,46.9
NOMINAL FLUX(lm)	5489.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.3,46.2
LAMPS INSIDE	1	η up(%)	6.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	93.1	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [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
10	1711	1684	1691	1697	1704	1714	1706	1653	0- 10	163.1	163.1	2.97,2.97
20	1601	1570	1596	1622	1589	1628	1626	1535	10- 20	465.7	628.8	11.5,11.5
30	1429	1402	1449	1489	1413	1484	1492	1365	20- 30	701.4	1330	24.2,24.2
40	1209	1193	1264	1310	1192	1293	1316	1157	30- 40	840.8	2171	39.5,39.5
50	958.4	957.9	1052	1097	940.8	1069	1107	922.9	40- 50	871.4	3042	55.4,55.4
60	686.2	707.5	821.2	863.6	672.2	824.9	878.0	673.6	50- 60	796.8	3839	69.9,69.9
70	398.8	455.3	586.1	620.2	398.1	570.8	638.6	427.1	60- 70	633.4	4473	81.5,81.5
80	134.4	237.0	375.6	383.9	132.5	332.1	413.4	224.5	70- 80	417.2	4890	89.1,89.1
90	5.797	114.7	229.9	199.9	5.886	154.1	243.3	119.8	80- 90	220.0	5110	93.1,93.1
100	6.438	79.62	156.1	114.6	6.056	88.93	156.9	83.46	90-100	118.6	5229	95.2,95.2
110	9.981	62.77	123.3	87.89	7.907	66.67	119.9	64.49	100-110	82.05	5311	96.7,96.7
120	12.45	50.71	97.38	68.92	10.80	46.70	90.56	51.24	110-120	60.80	5371	97.9,97.9
130	15.47	41.75	75.74	53.88	13.67	39.50	69.68	41.37	120-130	44.06	5415	98.7,98.7
140	18.22	34.76	58.24	40.84	16.49	29.98	55.06	34.16	130-140	30.56	5446	99.2,99.2
150	21.42	29.17	43.96	32.82	20.40	27.06	36.91	28.95	140-150	20.59	5467	99.6,99.6
160	23.34	25.42	32.75	28.54	23.20	25.44	31.75	25.76	150-160	13.11	5480	99.8,99.8
170	24.56	24.31	25.27	26.12	24.58	25.21	25.36	24.52	160-170	7.329	5487	100,100
180	25.22	24.94	22.71	24.78	25.31	24.88	22.37	24.85	170-180	2.361	5489	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2609.7 lm

%lum = 47.5%

%lamp = 47.5%

Conical surface Flux(120deg): 3839.2 lm

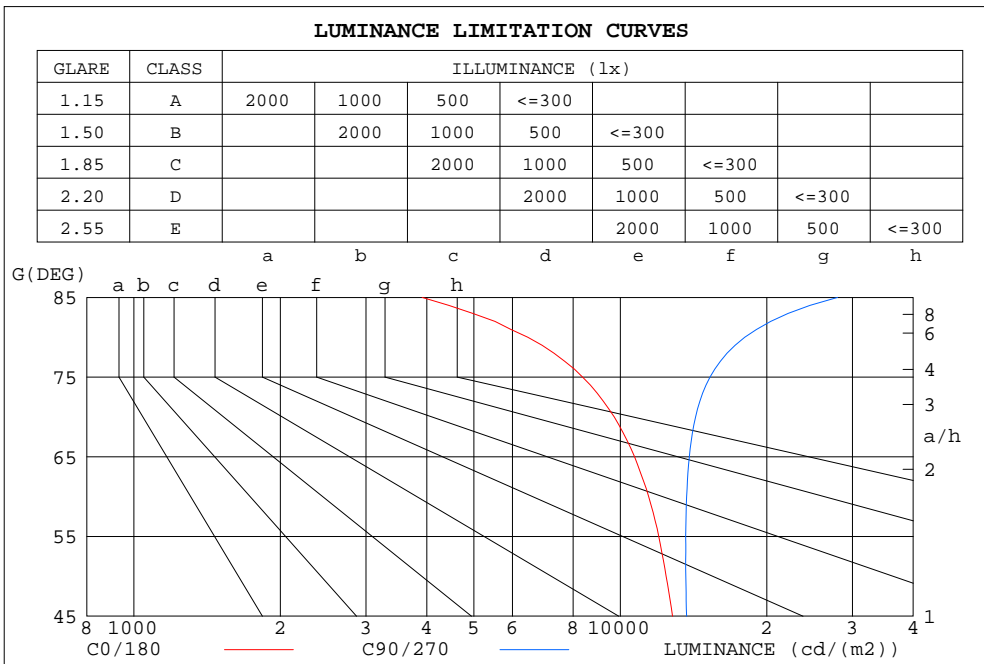
%lum = 69.9%

%lamp = 69.9%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



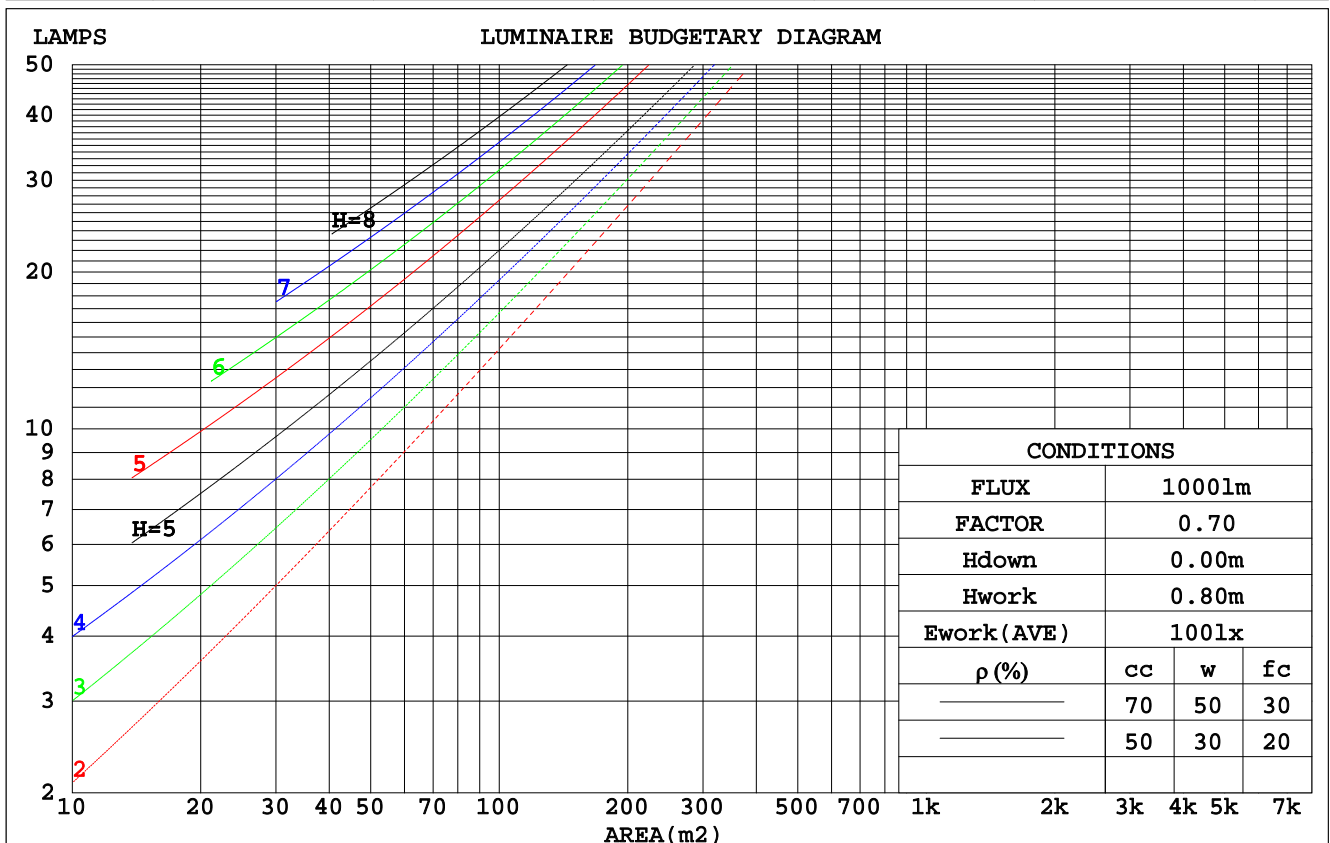
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3914	27963
80	6452	18025
75	8361	15288
70	9716	14279
65	10697	13861
60	11436	13686
55	11997	13627
50	12425	13635
45	12806	13684

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.01	.96	.92	.98	.94	.90	.92	.89	.86	.87	.84	.82	.83	.80	.78	.76
2.0	.87	.80	.74	.85	.78	.73	.80	.75	.70	.76	.71	.67	.72	.68	.65	.62
3.0	.77	.68	.61	.74	.67	.60	.70	.64	.58	.67	.61	.57	.63	.59	.55	.52
4.0	.68	.59	.52	.66	.58	.51	.62	.55	.50	.59	.53	.48	.56	.51	.47	.44
5.0	.60	.51	.44	.59	.50	.44	.56	.48	.43	.53	.47	.42	.51	.45	.41	.38
6.0	.54	.45	.39	.53	.44	.38	.50	.43	.37	.48	.42	.37	.46	.40	.36	.33
7.0	.49	.40	.34	.48	.40	.34	.46	.38	.33	.44	.37	.32	.42	.36	.32	.30
8.0	.45	.36	.30	.44	.36	.30	.42	.35	.29	.40	.34	.29	.38	.33	.28	.26
9.0	.41	.33	.27	.40	.32	.27	.39	.31	.27	.37	.31	.26	.36	.30	.26	.24
10.0	.38	.30	.25	.37	.30	.24	.36	.29	.24	.34	.28	.24	.33	.27	.23	.21



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

WEC AND CCEC

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.335	.190	.060	.326	.186	.059	.308	.177	.056	.292	.169	.054	.278	.161	.052	
2.0	.304	.167	.051	.296	.163	.050	.281	.156	.048	.266	.149	.047	.253	.143	.045	
3.0	.277	.147	.044	.270	.144	.043	.256	.139	.042	.243	.133	.041	.231	.128	.040	
4.0	.253	.132	.039	.247	.129	.038	.234	.124	.037	.223	.120	.036	.212	.115	.035	
5.0	.233	.119	.034	.227	.117	.034	.216	.112	.033	.206	.108	.032	.196	.105	.031	
6.0	.215	.108	.031	.210	.106	.031	.200	.102	.030	.190	.099	.029	.182	.096	.028	
7.0	.200	.099	.028	.195	.097	.028	.186	.094	.027	.177	.091	.026	.169	.088	.026	
8.0	.186	.091	.026	.182	.089	.025	.173	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.174	.084	.024	.170	.083	.023	.163	.080	.023	.156	.078	.022	.149	.076	.022	
10.0	.163	.078	.022	.160	.077	.022	.153	.075	.021	.146	.073	.021	.140	.071	.020	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.243	.243	.243	.208	.208	.208	.142	.142	.142	.081	.081	.081	.026	.026	.026	
1.0	.235	.209	.185	.201	.179	.160	.138	.123	.110	.079	.071	.064	.025	.023	.021	
2.0	.227	.185	.150	.195	.160	.130	.133	.110	.090	.077	.064	.053	.025	.021	.017	
3.0	.220	.168	.127	.188	.145	.110	.129	.101	.077	.075	.059	.046	.024	.019	.015	
4.0	.212	.155	.112	.182	.134	.097	.125	.093	.068	.072	.055	.040	.023	.018	.013	
5.0	.204	.145	.101	.176	.125	.088	.121	.088	.062	.070	.051	.037	.023	.017	.012	
6.0	.197	.137	.093	.169	.118	.081	.117	.083	.057	.068	.049	.034	.022	.016	.011	
7.0	.190	.130	.088	.164	.113	.076	.113	.079	.054	.066	.046	.032	.021	.015	.011	
8.0	.184	.124	.083	.158	.108	.073	.109	.076	.051	.064	.045	.031	.021	.015	.010	
9.0	.178	.119	.080	.153	.103	.070	.106	.073	.049	.062	.043	.029	.020	.014	.010	
10.0	.172	.115	.077	.148	.100	.067	.103	.070	.048	.060	.042	.029	.019	.014	.009	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:7.640m [K=1.0000]
Remarks:

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	20.7	22.1	21.1	22.5	22.8	21.3	22.7	21.6	23.0	23.4
3H	22.1	23.4	22.5	23.8	24.1	23.1	24.5	23.5	24.8	25.2
4H	22.5	23.8	23.0	24.2	24.6	24.1	25.3	24.5	25.7	26.1
6H	22.8	24.0	23.3	24.4	24.8	25.0	26.2	25.4	26.6	27.0
8H	22.9	24.0	23.3	24.4	24.9	25.5	26.7	26.0	27.1	27.5
12H	22.9	24.0	23.3	24.4	24.9	26.1	27.2	26.5	27.6	28.1
4H 2H	21.3	22.6	21.7	23.0	23.4	21.8	23.0	22.2	23.4	23.8
3H	22.9	24.0	23.3	24.4	24.8	23.8	24.9	24.2	25.3	25.8
4H	23.5	24.5	24.0	24.9	25.4	24.9	25.9	25.3	26.3	26.8
6H	23.9	24.8	24.4	25.3	25.8	26.0	26.9	26.5	27.4	27.9
8H	24.0	24.8	24.5	25.3	25.9	26.6	27.4	27.1	27.9	28.5
12H	24.0	24.8	24.6	25.3	25.9	27.3	28.1	27.8	28.6	29.1
8H 4H	23.8	24.7	24.4	25.2	25.7	25.1	25.9	25.6	26.4	26.9
6H	24.4	25.1	25.0	25.7	26.2	26.4	27.1	26.9	27.6	28.2
8H	24.6	25.3	25.2	25.8	26.4	27.1	27.8	27.7	28.3	28.9
12H	24.8	25.3	25.4	25.9	26.5	28.1	28.6	28.6	29.2	29.8
12H 4H	23.9	24.7	24.4	25.2	25.8	25.1	25.8	25.6	26.3	26.9
6H	24.6	25.2	25.2	25.8	26.4	26.4	27.1	27.0	27.6	28.2
8H	24.9	25.4	25.5	26.0	26.6	27.3	27.8	27.8	28.4	29.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 5489 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.9)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

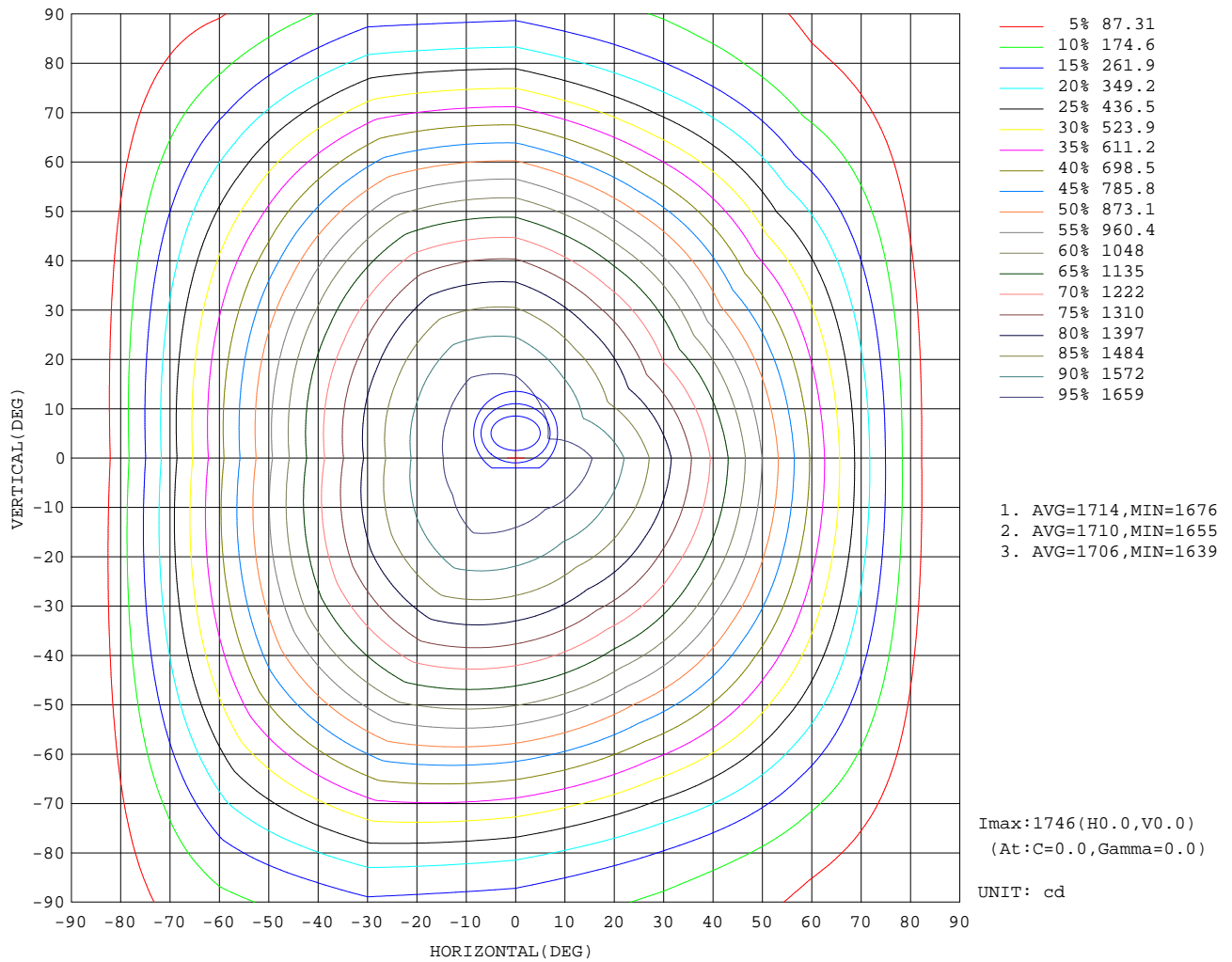
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	54	43	36	53	42	35	52	42	35	29
0.80	64	52	45	63	52	44	61	50	44	36
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	60	77	67	60	74	65	59	51
1.50	84	74	66	82	72	65	78	70	64	55
2.00	91	82	75	89	80	74	84	77	72	62
2.50	95	87	80	93	85	79	88	81	76	66
3.00	99	91	85	96	89	83	91	85	80	70
4.00	103	96	91	100	94	89	95	90	86	75
5.00	105	100	95	102	97	93	97	93	89	78
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

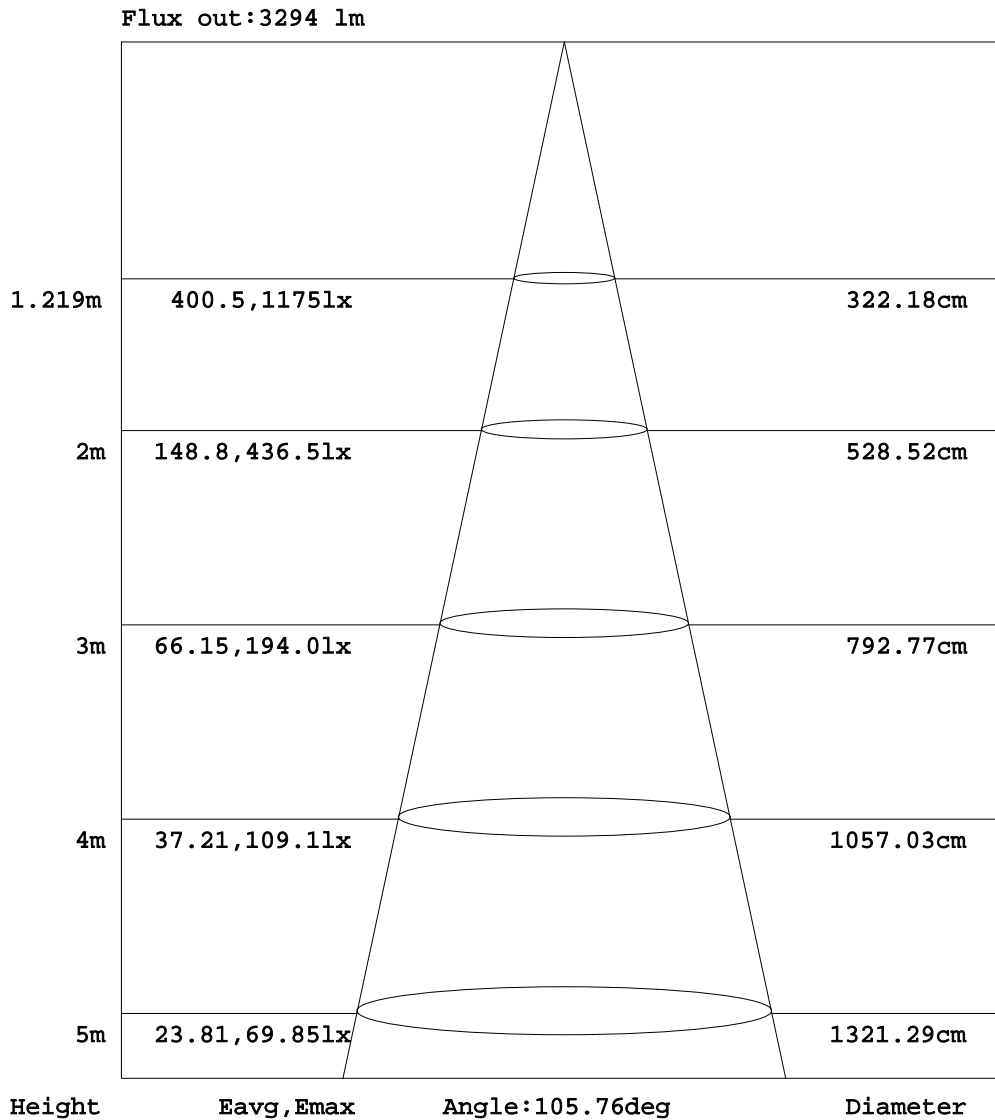
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

AAI Figure

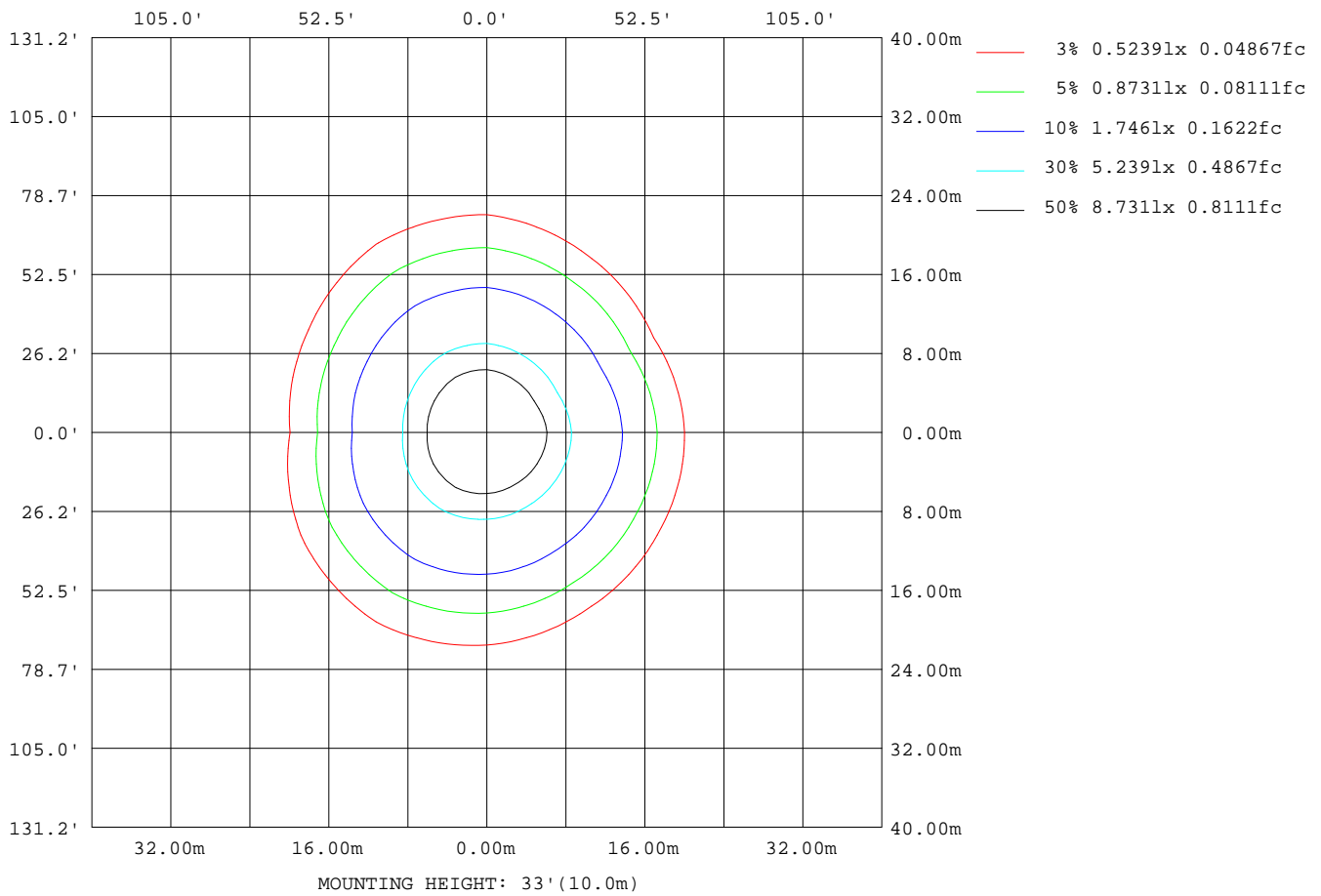


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:229.7V I:0.3453A P:42.40W PF:0.5300 Lamp Flux:5489.4x1 lm		
NAME: 防潮灯方柱	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

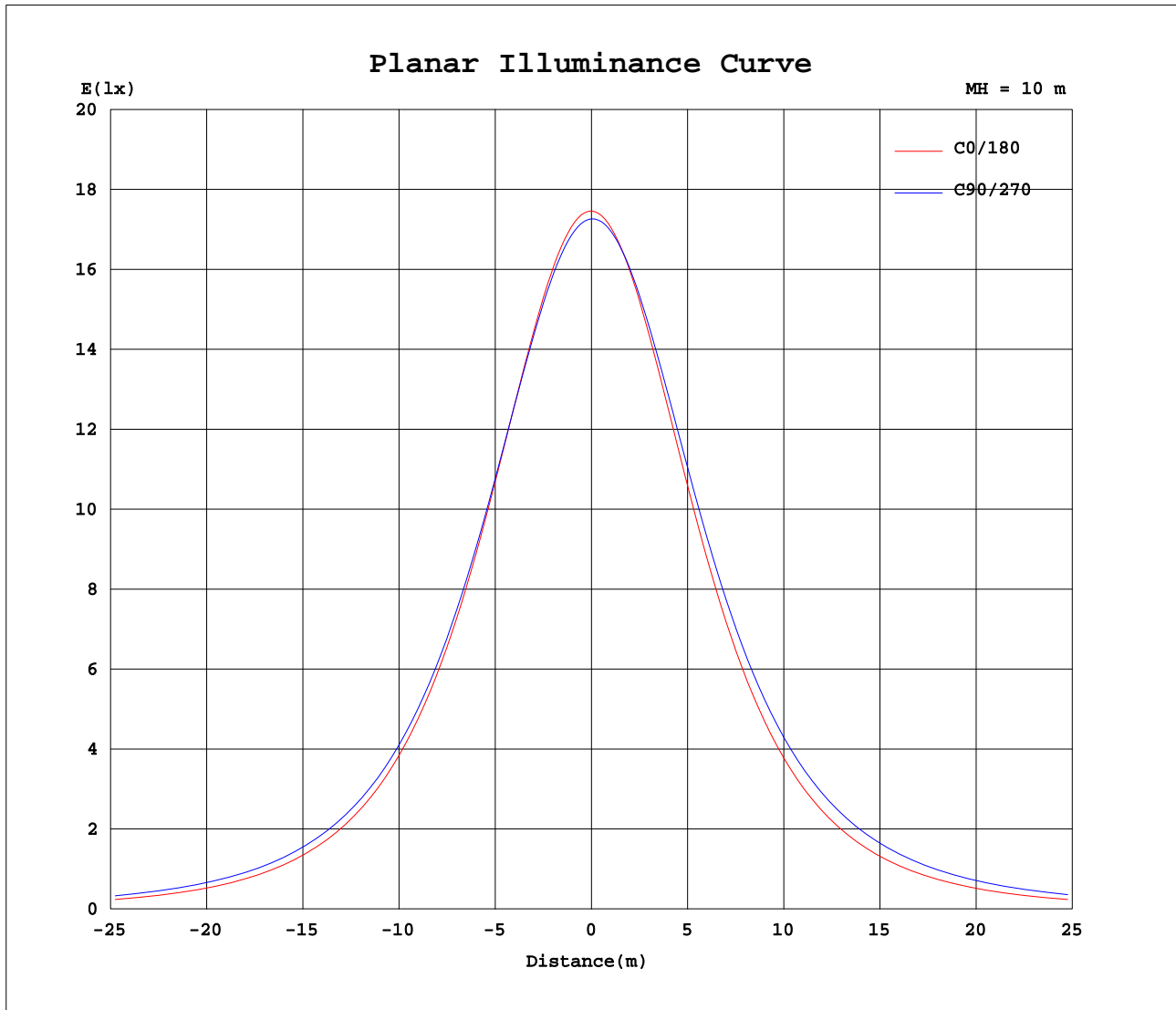
AvgL	cd/m2
L_0~180(65)av	10621
L_0~180(75)av	8373
L_0~180(85)av	3846
L_90~270(65)av	14405
L_90~270(75)av	16042
L_90~270(85)av	29214
L_45(65)av	12683
L_45(75)av	12969
L_45(85)av	20411

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1746	1737	1730	1727	1718	1699	1746	1737	1730	1727	1718	1699							
5	1738	1723	1711	1716	1719	1702	1735	1732	1732	1723	1701	1676							
10	1711	1692	1677	1691	1706	1688	1704	1709	1718	1706	1668	1637							
15	1665	1643	1627	1650	1678	1657	1655	1669	1690	1673	1620	1582							
20	1601	1577	1563	1596	1635	1610	1589	1612	1645	1626	1558	1511							
25	1522	1497	1486	1528	1577	1549	1508	1540	1586	1565	1483	1427							
30	1429	1405	1398	1449	1506	1473	1413	1454	1513	1492	1398	1332							
35	1324	1302	1301	1362	1423	1386	1307	1357	1429	1408	1303	1227							
40	1209	1190	1196	1264	1331	1288	1192	1251	1335	1316	1200	1114							
45	1087	1071	1085	1161	1232	1182	1069	1136	1232	1215	1090	995							
50	958	947	969	1052	1125	1069	941	1015	1123	1107	974	872							
55	826	820	848	938	1013	951	808	890	1008	995	854	744							
60	686	689	726	821	897	830	672	761	889	878	731	616							
65	542	557	604	703	779	706	535	629	766	758	608	488							
70	399	427	484	586	659	582	398	499	642	639	489	366							
75	260	303	374	475	540	458	260	373	522	522	379	253							
80	134	195	279	376	428	340	132	256	408	413	286	163							
85	40.9	114	207	292	329	235	39.5	157	309	319	217	104							
90	5.80	70.7	159	230	248	152	5.89	80.7	227	243	167	72.7							
95	5.16	53.9	130	186	190	100	5.06	56.6	165	191	136	58.9							
100	6.44	45.8	113	156	153	76.4	6.06	47.2	131	157	117	50.0							
105	8.34	40.1	101	138	130	66.1	7.08	38.9	113	136	103	43.4							
110	9.98	35.9	89.6	123	116	59.8	7.91	36.3	97.0	120	90.7	38.3							
115	10.9	32.9	79.7	110	104	53.1	9.28	28.5	86.2	104	80.2	34.4							
120	12.5	30.7	70.8	97.4	92.5	45.3	10.8	27.0	66.4	90.6	71.1	31.4							
125	14.0	29.0	63.0	86.0	81.5	40.3	12.3	25.6	63.3	81.7	62.9	29.1							
130	15.5	27.5	56.0	75.7	70.6	37.2	13.7	24.4	54.6	69.7	55.6	27.1							
135	16.8	26.3	49.8	66.6	58.9	34.0	15.1	23.6	39.1	62.9	49.3	25.7							
140	18.2	25.2	44.4	58.2	50.2	31.5	16.5	23.3	36.7	55.1	43.7	24.6							
145	19.7	24.3	39.4	50.7	43.1	29.6	18.4	22.8	33.6	47.8	38.7	23.9							
150	21.4	23.6	34.8	44.0	37.3	28.3	20.4	23.7	30.5	36.9	34.4	23.5							
155	22.4	23.1	30.8	37.9	32.6	28.5	22.0	24.4	27.9	35.0	30.2	23.4							
160	23.3	23.2	27.6	32.8	29.0	28.1	23.2	24.7	26.1	31.8	27.6	24.0							
165	24.1	23.8	25.2	28.5	26.4	27.5	24.0	24.9	25.5	28.4	25.7	24.4							
170	24.6	24.5	24.1	25.3	25.6	26.6	24.6	24.9	25.5	25.4	24.7	24.3							
175	25.0	25.0	24.6	24.0	25.0	25.8	25.0	24.8	24.9	22.2	24.8	24.4							
180	25.2	25.1	24.8	22.7	24.6	25.0	25.3	25.0	24.7	22.4	24.5	25.2							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 September 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks: