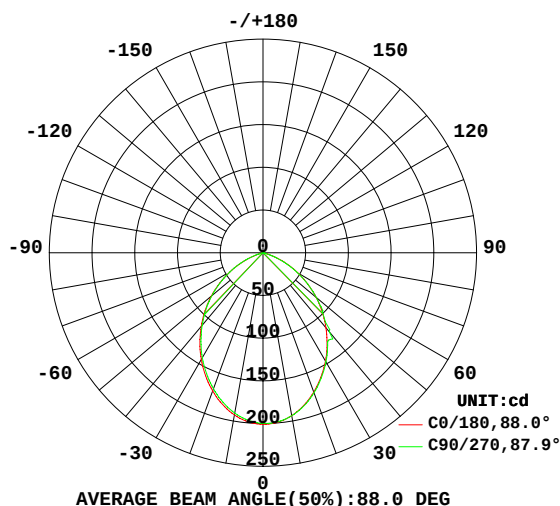


LUMINAIRE PHOTOMETRIC TEST REPORT

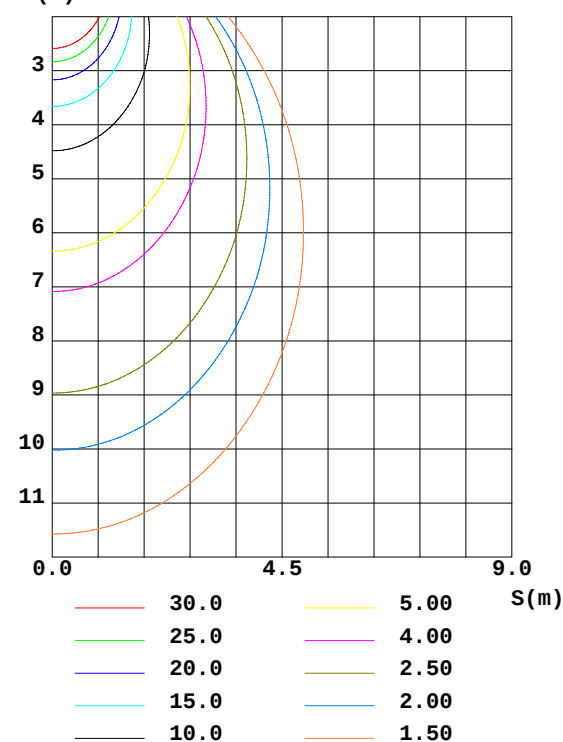
Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME:CL-SPOT02 3000K-90RA(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.67 lm/W			
MODEL		I _{max} (cd)	200.8	S/MH(C0/180)	1.10
NOMINAL POWER(W)	6	LOR(%)	100.0	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	389.02	η UP, DN(C0-180)	0.1, 50.7
NOMINAL FLUX(lm)	389.023	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 49.0
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	99.7	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [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	193.6	193.9	193.8	193.0	192.8	191.3	190.7	190.9	0- 10	18.72	18.72	4.81, 4.81
20	173.6	174.4	174.6	173.5	172.2	170.2	169.5	170.1	10- 20	51.59	70.31	18.1, 18.1
30	146.4	147.3	147.5	146.3	144.5	142.6	142.1	142.8	20- 30	73.15	143.5	36.9, 36.9
40	114.7	115.4	120.7	114.3	112.4	111.0	110.8	111.4	30- 40	80.85	224.3	57.7, 57.7
50	81.33	81.68	81.47	80.59	78.94	78.04	78.13	78.72	40- 50	74.49	298.8	76.8, 76.8
60	47.11	46.98	46.46	45.86	44.49	44.20	44.63	45.13	50- 60	55.85	354.7	91.2, 91.2
70	15.10	14.62	14.01	13.52	12.63	12.93	13.54	13.89	60- 70	28.93	383.6	98.6, 98.6
80	0.0332	0.0285	0.0332	0.0238	0	0	0	0	70- 80	4.340	387.9	99.7, 99.7
90	0	0	0	0	0	0	0	0	80- 90	0.0032	387.9	99.7, 99.7
100	0	0	0	0	0	0	0	0	90-100	0	387.9	99.7, 99.7
110	0	0	0	0	0.0331	0.0285	0.0284	0.0190	100-110	0.0020	387.9	99.7, 99.7
120	0.0706	0.0706	0.0659	0.0707	0.1228	0.1275	0.1275	0.1181	110-120	0.0477	388.0	99.7, 99.7
130	0.2026	0.1933	0.1745	0.1980	0.2314	0.2408	0.2361	0.2313	120-130	0.1361	388.1	99.8, 99.8
140	0.3397	0.3302	0.3252	0.3256	0.3493	0.3541	0.3588	0.3493	130-140	0.2138	388.3	99.8, 99.8
150	0.4246	0.4152	0.4152	0.4153	0.4626	0.4672	0.4673	0.4579	140-150	0.2442	388.6	99.9, 99.9
160	0.5142	0.5143	0.5096	0.5096	0.5617	0.5570	0.5617	0.5617	150-160	0.2255	388.8	99.9, 99.9
170	0.6039	0.5898	0.5851	0.5850	0.6336	0.6270	0.6325	0.6294	160-170	0.1622	389.0	100, 100
180	0.6371	0.6371	0.6276	0.6371	0.6418	0.6371	0.6418	0.6418	170-180	0.0591	389.0	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

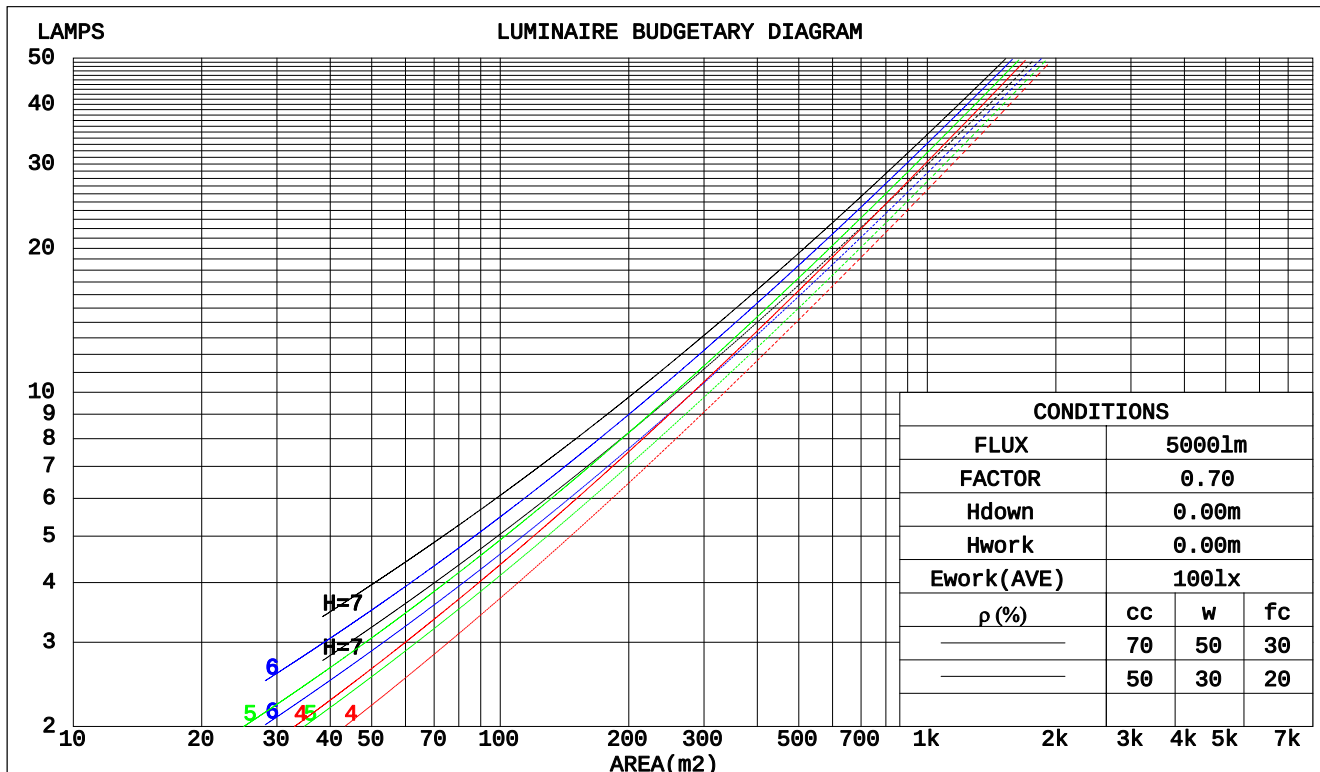
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.86	.94	.89	.85	.91	.86	.83	.87	.84	.81	.85	.82	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.82	.76	.72	.79	.74	.70	.76	.72	.69	.67
4.0	.77	.70	.64	.76	.69	.63	.74	.67	.62	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.63	.55	.50	.63	.55	.49	.61	.54	.49	.59	.53	.49	.58	.52	.48	.46
7.0	.58	.50	.44	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.47	.43	.41
8.0	.53	.45	.40	.53	.45	.40	.51	.45	.40	.50	.44	.39	.49	.43	.39	.37
9.0	.49	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10.0	.46	.38	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm								
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)				TYPE:			WEIGHT:	
DIM.:				SPEC.:			SERIAL No.:	
MFR.:				SUR.:			PROTECTION ANGLE:	

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	.242	.137	.044	.235	.134	.043	.222	.127	.041	.210	.121	.039	.199	.115	.037		
2.0	.238	.130	.040	.232	.128	.039	.221	.123	.038	.210	.118	.037	.200	.113	.036		
3.0	.227	.121	.036	.222	.119	.036	.212	.115	.035	.203	.111	.034	.194	.108	.033		
4.0	.215	.112	.033	.210	.110	.033	.202	.107	.032	.193	.104	.031	.186	.101	.031		
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	.177	.094	.028		
6.0	.191	.096	.027	.187	.095	.027	.180	.092	.027	.174	.090	.027	.168	.088	.026		
7.0	.180	.089	.025	.177	.088	.025	.170	.086	.025	.165	.084	.025	.159	.083	.024		
8.0	.170	.083	.023	.167	.082	.023	.161	.081	.023	.156	.079	.023	.151	.077	.023		
9.0	.160	.078	.022	.158	.077	.022	.153	.075	.021	.148	.074	.021	.143	.073	.021		
10.0	.152	.073	.020	.149	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.178	.159	.142	.152	.136	.122	.104	.094	.084	.060	.054	.049	.019	.017	.016	
2.0	.167	.134	.107	.143	.116	.092	.098	.080	.064	.057	.047	.038	.018	.015	.012	
3.0	.158	.116	.082	.136	.100	.072	.093	.070	.050	.054	.041	.030	.017	.013	.010	
4.0	.151	.102	.066	.129	.088	.057	.089	.062	.040	.051	.036	.024	.017	.012	.008	
5.0	.143	.092	.053	.123	.079	.047	.085	.055	.033	.049	.033	.019	.016	.011	.006	
6.0	.137	.083	.045	.118	.072	.039	.081	.050	.027	.047	.030	.016	.015	.010	.005	
7.0	.130	.076	.038	.112	.066	.033	.078	.046	.023	.045	.027	.014	.015	.009	.005	
8.0	.125	.070	.033	.107	.061	.029	.074	.043	.020	.043	.025	.012	.014	.008	.004	
9.0	.119	.065	.029	.103	.057	.025	.071	.040	.018	.041	.024	.011	.013	.008	.004	
10.0	.114	.061	.026	.098	.053	.023	.068	.037	.016	.040	.022	.010	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm											
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.:					SUR.:			PROTECTION 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		12.9	14.3	13.2	14.5	14.7	12.9	14.3	13.2	14.4	14.6
	3H	13.4	14.6	13.7	14.8	15.0	13.3	14.5	13.6	14.8	15.0
	4H	13.3	14.5	13.6	14.7	15.0	13.2	14.4	13.5	14.6	14.9
	6H	13.2	14.3	13.5	14.6	14.8	13.1	14.2	13.5	14.5	14.8
	8H	13.2	14.2	13.5	14.5	14.8	13.1	14.1	13.4	14.4	14.7
	12H	13.1	14.1	13.5	14.4	14.7	13.0	14.0	13.4	14.3	14.6
4H	2H	13.2	14.4	13.5	14.6	14.9	13.2	14.3	13.5	14.6	14.8
	3H	13.7	14.7	14.0	15.0	15.3	13.6	14.6	14.0	14.9	15.2
	4H	13.6	14.5	14.0	14.9	15.2	13.6	14.5	13.9	14.8	15.1
	6H	13.5	14.3	13.9	14.7	15.0	13.5	14.3	13.9	14.6	15.0
	8H	13.5	14.2	13.9	14.6	15.0	13.4	14.2	13.8	14.5	14.9
	12H	13.5	14.1	13.9	14.5	14.9	13.4	14.1	13.8	14.4	14.8
8H	4H	13.5	14.3	13.9	14.6	15.0	13.5	14.2	13.9	14.6	15.0
	6H	13.5	14.0	13.9	14.5	14.9	13.4	14.0	13.8	14.4	14.8
	8H	13.4	13.9	13.9	14.4	14.8	13.3	13.9	13.8	14.3	14.7
	12H	13.4	13.8	13.8	14.3	14.7	13.3	13.7	13.8	14.2	14.7
12H	4H	13.5	14.2	13.9	14.5	14.9	13.4	14.1	13.9	14.5	14.9
	6H	13.4	13.9	13.9	14.4	14.8	13.3	13.9	13.8	14.3	14.7
	8H	13.4	13.8	13.8	14.3	14.7	13.3	13.7	13.8	14.2	14.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.8					
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.4					
2.0H	+ 1.0 / - 1.2					+ 1.0 / - 1.2					

CIE Pub.117 Corrected 389.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.3)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

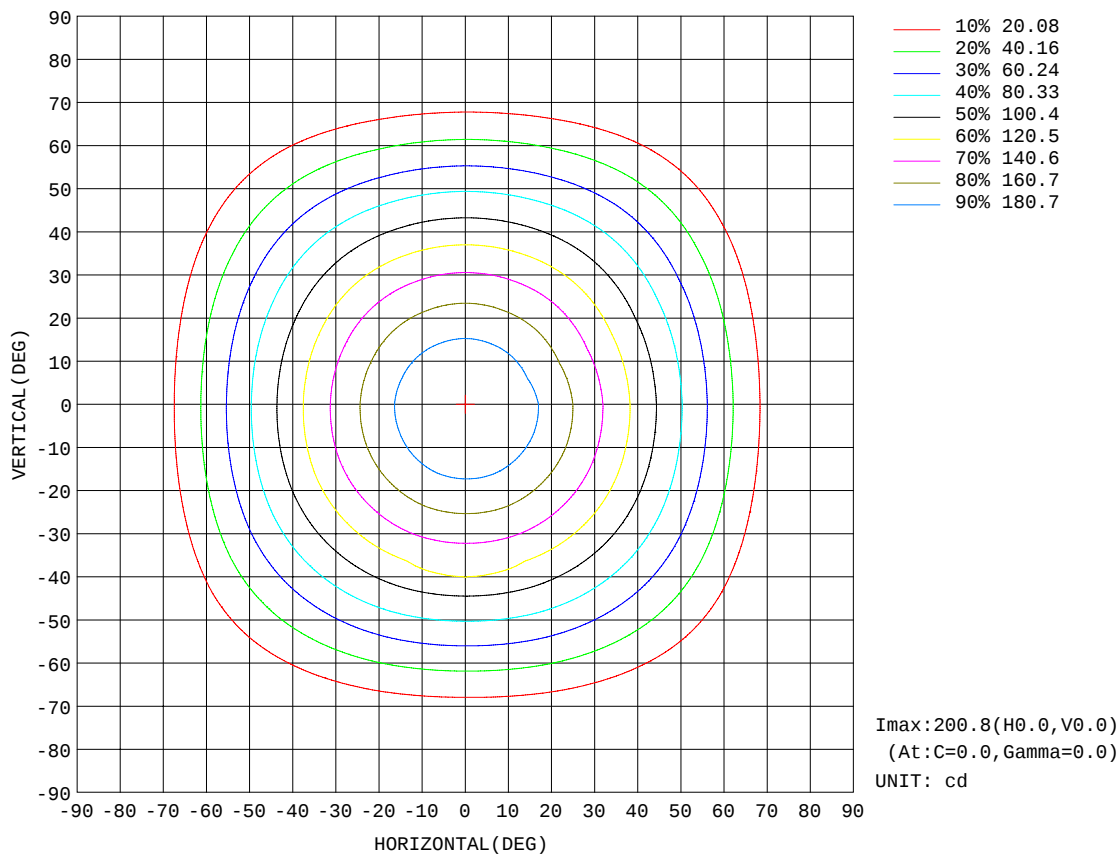
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	54	48	64	54	48	63	54	48	42
0.80	75	65	59	74	64	58	72	64	58	52
1.00	83	74	68	82	73	68	80	74	67	61
1.25	90	81	76	89	81	75	86	79	74	68
1.50	95	87	81	93	86	80	90	84	79	73
2.00	100	94	89	99	93	88	96	90	86	79
2.50	104	97	93	102	96	92	98	93	90	82
3.00	106	101	97	104	99	96	100	97	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	108	104	109	106	103	105	102	100	91
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:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

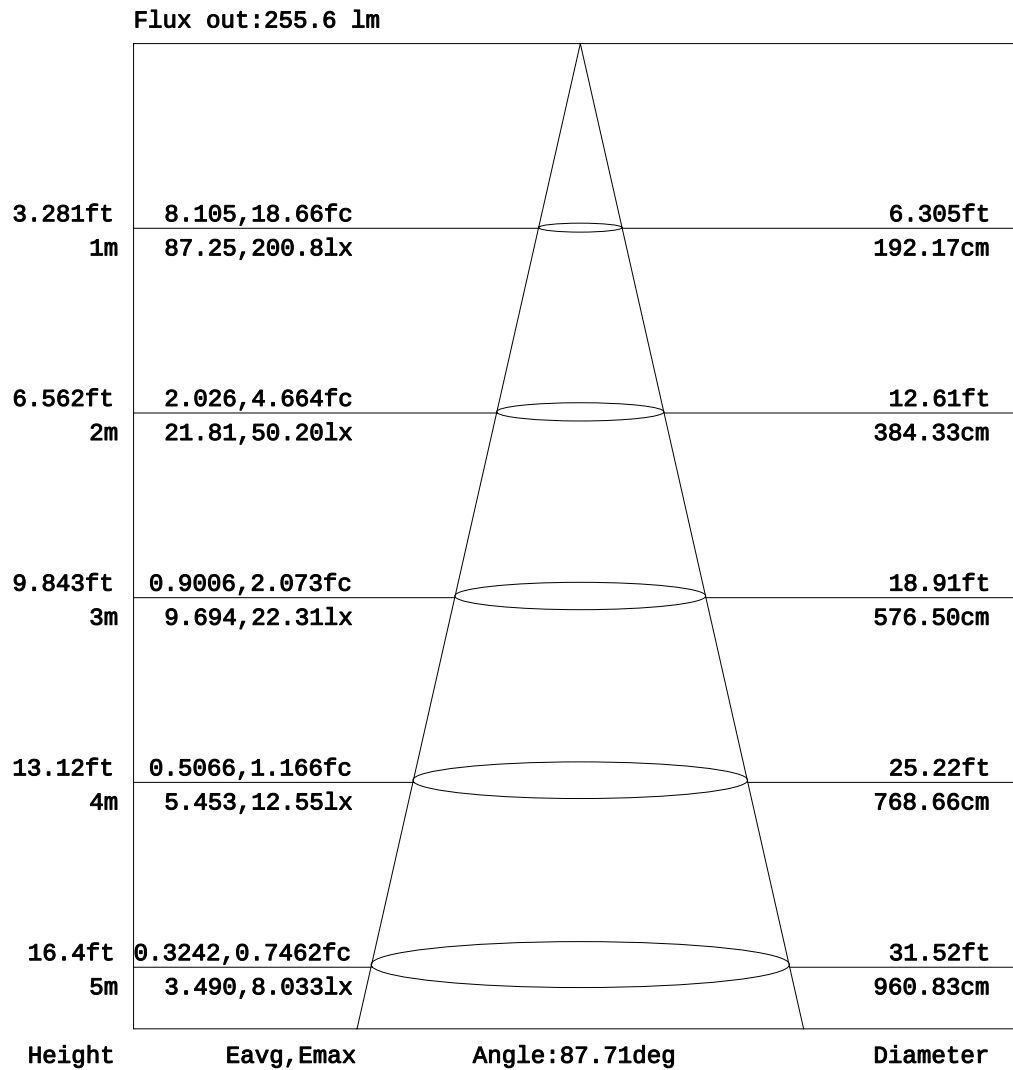


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



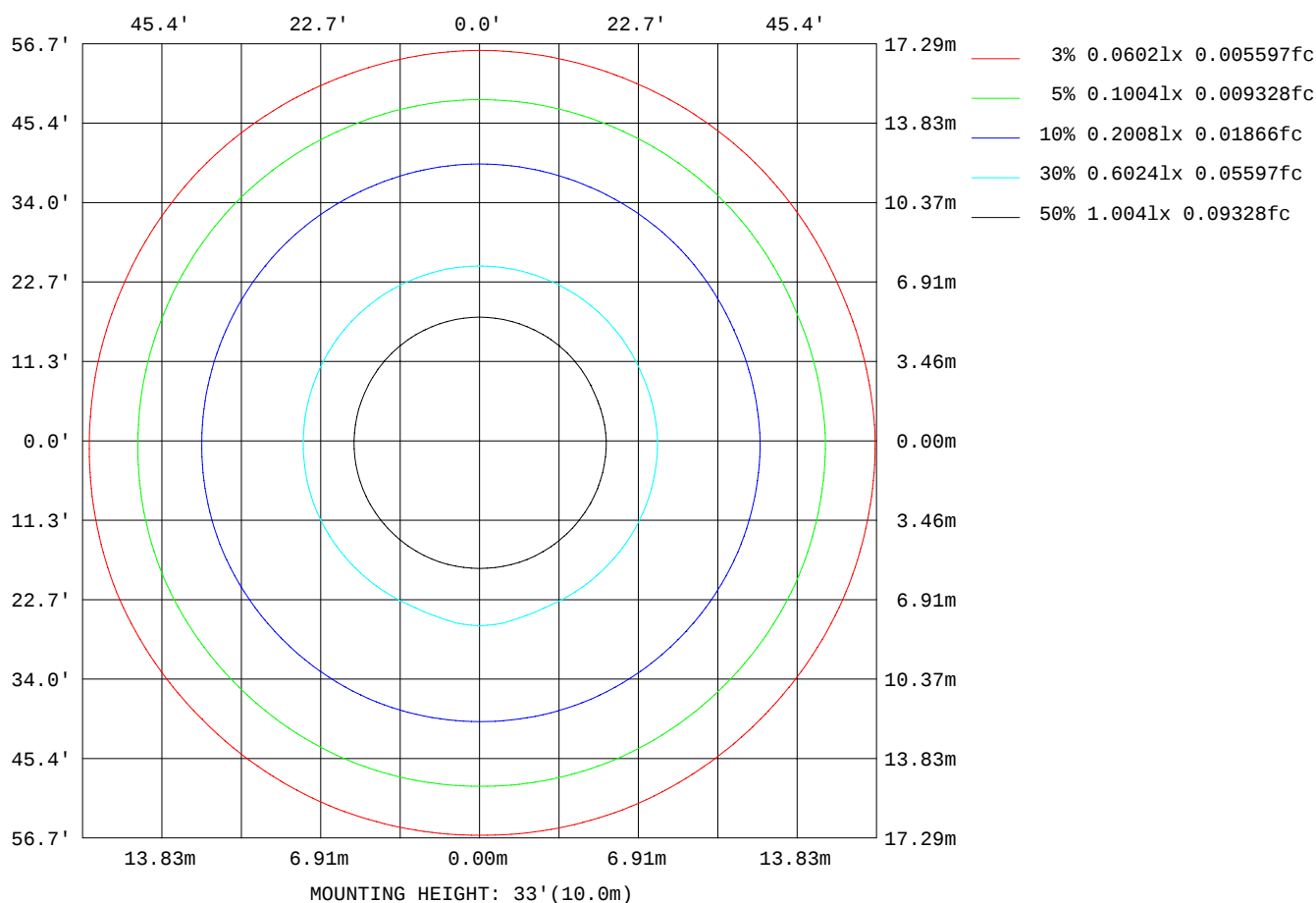
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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	389.023	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	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 deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	1117	1124	1127	1125	1121	1121	1123	1124	1119	1114	1114	1114	1110	1104	1101	1101	1097	1086	1073
60	942	948	950	947	942	940	942	941	935	929	930	931	927	920	918	920	917	904	890
65	728	733	734	729	722	719	720	719	712	705	705	706	700	693	692	696	693	678	662
70	442	446	447	440	431	428	429	427	418	410	410	411	406	398	398	403	401	386	369
75	126	130	130	125	117	113	114	113	106	99	100	102	98	93	93	97	96	84	72
80	2	1	0	0	1	1	0	0	1	2	1	0	0	1	1	1	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	1127	200	---	500
Category 2	65 to 90	734	200	---	500
Category 3	75 to 90	130	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: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm		
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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	389.023	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	1117	1124	1127	1125	1121	1121	1123	1124	1119	1114	1114	1114	1110	1104	1101	1101	1097	1086	1073
60	942	948	950	947	942	940	942	941	935	929	930	931	927	920	918	920	917	904	890
65	728	733	734	729	722	719	720	719	712	705	705	706	700	693	692	696	693	678	662
70	442	446	447	440	431	428	429	427	418	410	410	411	406	398	398	403	401	386	369
75	126	130	130	125	117	113	114	113	106	99	100	102	98	93	93	97	96	84	72
80	2	1	0	0	1	1	0	0	1	2	1	0	0	1	1	1	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	1127	1000	1500	200	500
65 to 90	734	1000	1500	200	500

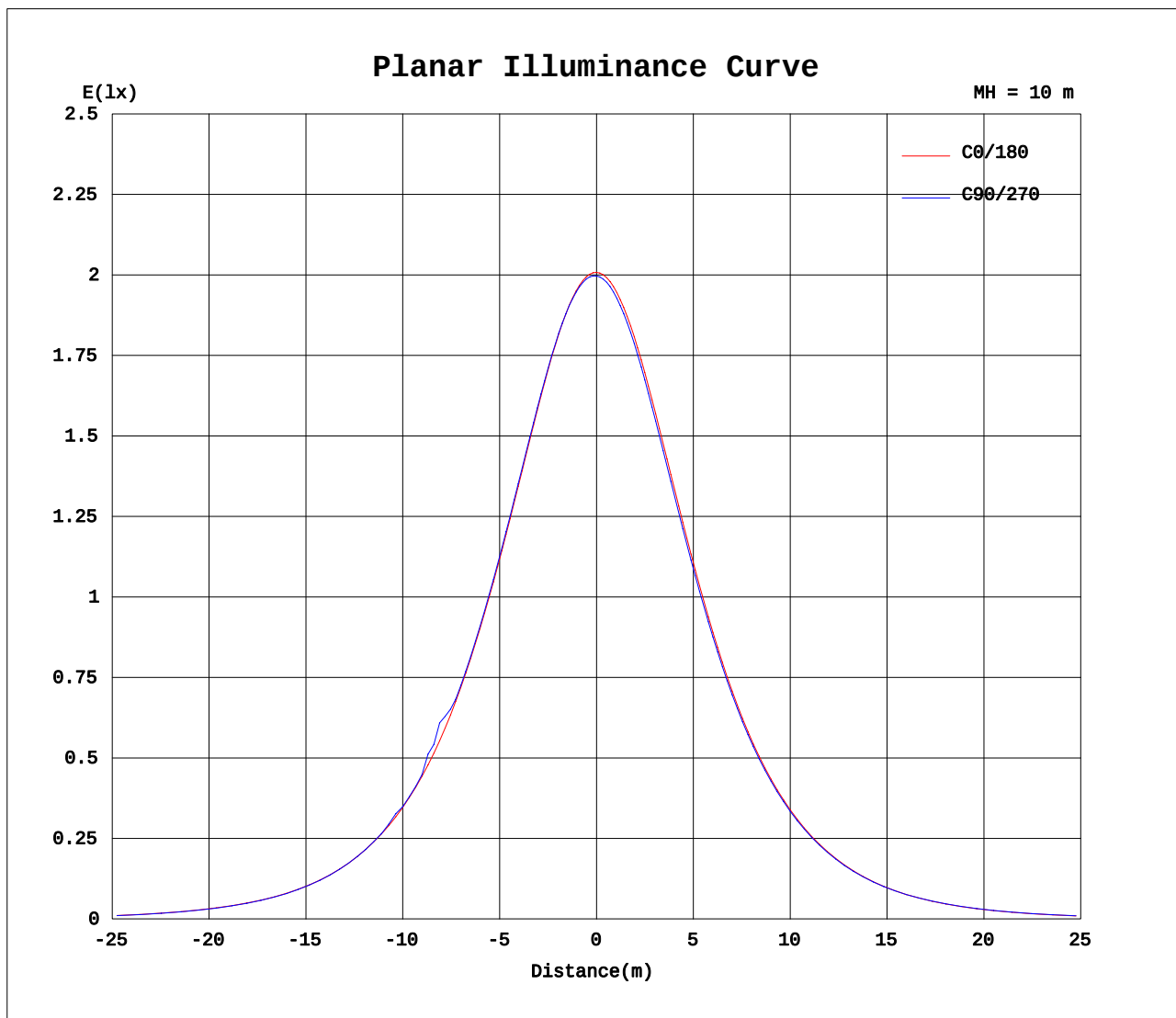
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

The luminaire satisfies the specified luminance criteria for
Negative Software with Type I & II Screen(Good to Moderate treatment).

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.3020A P:7.248W PF:1.000 Lamp Flux:389.023x1 lm																	
NAME: SPOT02-3000K-90RA-36D(DIFFUSE)									TYPE:						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:		
MFR.:									SUR.:						PROTECTION ANGLE:		

Table--1

UNIT: cd

C(°) \ γ (°)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
0	201	200	200	200	200	200	199	199	201	200	200	200	200	200	199	199			
5	199	199	199	199	199	198	198	198	199	198	198	197	197	197	197	197			
10	194	194	194	194	194	194	193	192	193	192	191	191	191	190	191	191			
15	185	185	185	186	186	185	185	184	184	183	182	181	181	181	182	182			
20	174	174	174	175	175	174	174	173	172	171	170	169	170	169	170	170			
25	161	161	161	162	162	162	161	160	159	157	157	156	156	156	157	157			
30	146	147	147	148	147	147	146	146	145	143	143	142	142	142	143	143			
35	131	132	132	132	132	132	131	130	129	128	127	127	127	127	127	128			
40	115	115	115	116	121	115	114	114	112	111	111	110	111	111	111	112			
45	98.1	98.8	98.7	99.1	98.7	98.5	97.6	97.3	95.9	94.8	94.7	94.2	94.7	94.6	95.2	95.3			
50	81.3	81.9	81.7	82.0	81.5	81.4	80.6	80.4	78.9	78.0	78.0	77.7	78.1	78.0	78.7	78.7			
55	64.1	64.6	64.2	64.5	63.9	63.9	63.1	63.1	61.5	60.7	60.9	60.6	61.2	61.1	61.7	61.6			
60	47.1	47.5	47.0	47.1	46.5	46.6	45.9	46.0	44.5	43.9	44.2	44.0	44.6	44.6	45.1	44.9			
65	30.8	31.0	30.4	30.4	29.8	29.8	29.2	29.4	28.0	27.6	28.0	28.1	28.7	28.7	29.1	28.9			
70	15.1	15.3	14.6	14.7	14.0	14.1	13.5	13.8	12.6	12.4	12.9	12.9	13.5	13.4	13.9	13.6			
75	3.26	3.36	2.93	2.96	2.56	2.64	2.36	2.54	1.87	1.82	2.08	2.09	2.39	2.33	2.60	2.41			
80	0.03	0.00	0.03	0.00	0.03	0.00	0.02	0.00	0.00	0.04	0.00	0.04	0.00	0.04	0.00	0.04			
85	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			
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			
95	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			
100	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			
105	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			
110	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.02	0.03	0.00	0.03	0.00	0.03	0.00	0.02	0.00			
115	0.02	0.06	0.02	0.07	0.02	0.06	0.02	0.06	0.07	0.03	0.08	0.04	0.08	0.03	0.08	0.02			
120	0.07	0.12	0.07	0.11	0.07	0.12	0.07	0.12	0.12	0.08	0.13	0.08	0.13	0.08	0.12	0.08			
125	0.14	0.17	0.12	0.17	0.12	0.17	0.13	0.17	0.18	0.13	0.17	0.14	0.18	0.14	0.17	0.12			
130	0.20	0.23	0.19	0.24	0.17	0.23	0.20	0.24	0.23	0.19	0.24	0.19	0.24	0.19	0.23	0.18			
135	0.28	0.32	0.26	0.32	0.24	0.31	0.26	0.32	0.29	0.25	0.29	0.25	0.30	0.25	0.29	0.25			
140	0.34	0.38	0.33	0.37	0.33	0.36	0.33	0.37	0.35	0.31	0.35	0.31	0.36	0.32	0.35	0.30			
145	0.38	0.42	0.37	0.42	0.36	0.41	0.38	0.42	0.40	0.37	0.41	0.37	0.42	0.36	0.41	0.35			
150	0.42	0.47	0.42	0.47	0.42	0.47	0.42	0.47	0.46	0.42	0.47	0.42	0.47	0.42	0.46	0.41			
155	0.47	0.52	0.47	0.51	0.47	0.51	0.47	0.52	0.51	0.47	0.52	0.48	0.52	0.47	0.51	0.46			
160	0.51	0.56	0.51	0.56	0.51	0.56	0.51	0.56	0.56	0.51	0.56	0.51	0.56	0.51	0.56	0.51			
165	0.57	0.60	0.56	0.60	0.56	0.59	0.55	0.59	0.61	0.56	0.60	0.56	0.61	0.56	0.60	0.55			
170	0.60	0.64	0.59	0.63	0.59	0.62	0.59	0.63	0.63	0.59	0.63	0.59	0.63	0.59	0.63	0.59			
175	0.62	0.64	0.61	0.64	0.61	0.63	0.60	0.63	0.64	0.61	0.64	0.61	0.64	0.61	0.64	0.61			
180	0.64	0.64	0.64	0.64	0.63	0.63	0.64	0.64	0.64	0.63	0.64	0.64	0.64	0.62	0.64	0.62			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks: