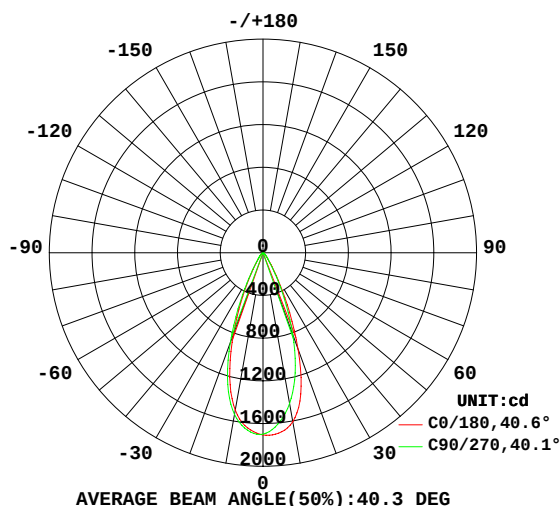


LUMINAIRE PHOTOMETRIC TEST REPORT

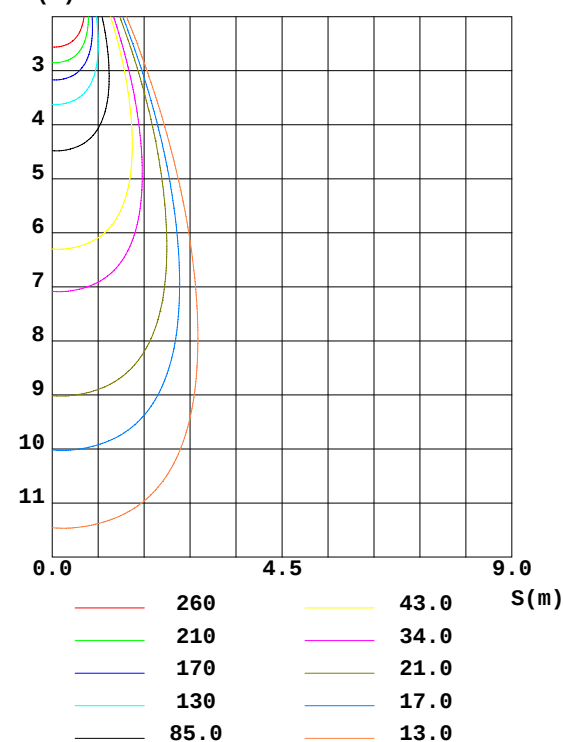
Test:U:24.00V I:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME:CL-SPOT03 3000K-90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.38 lm/W			
MODEL		I _{max} (cd)	1710	S/MH(C0/180)	0.65
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.62
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	850.02	η UP, DN(C0-180)	0.2, 49.5
NOMINAL FLUX(lm)	850.017	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 50.1
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	0.65

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	1607	1491	1434	1446	1497	1508	1537	1564	0- 10	153.1	153.1	18,18
20	962.3	879.2	817.3	816.0	808.2	856.8	896.0	939.8	10- 20	338.2	491.3	57.8,57.8
30	252.1	241.4	230.6	227.2	211.6	222.8	230.1	240.4	20- 30	229.0	720.3	84.7,84.7
40	63.30	61.65	65.24	58.04	57.05	59.95	62.60	62.08	30- 40	73.52	793.8	93.4,93.4
50	27.22	26.75	26.84	26.28	25.40	26.63	27.90	27.52	40- 50	31.48	825.3	97.1,97.1
60	9.854	9.972	10.48	10.04	9.707	9.942	10.50	9.858	50- 60	15.27	840.6	98.9,98.9
70	2.229	2.087	2.153	2.248	1.995	2.038	2.249	2.297	60- 70	5.747	846.3	99.6,99.6
80	0	0	0	0	0	0	0	0	70- 80	0.5149	846.8	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	0	846.8	99.6,99.6
100	0	0	0	0	0	0	0	0	90-100	0	846.8	99.6,99.6
110	0	0	0	0	0	0	0	0	100-110	0	846.8	99.6,99.6
120	0	0	0	0	0.0190	0.0143	0.0189	0.0189	110-120	0.0004	846.8	99.6,99.6
130	0.0094	0.0847	0.0801	0.0988	0.1702	0.1561	0.1514	0.1466	120-130	0.0371	846.9	99.6,99.6
140	0.5560	0.5655	0.5796	0.6220	0.6664	0.6239	0.5908	0.5719	130-140	0.2444	847.1	99.7,99.7
150	1.467	1.528	1.599	1.636	1.672	1.573	1.497	1.469	140-150	0.6429	847.8	99.7,99.7
160	2.627	2.712	2.802	2.807	2.823	2.715	2.658	2.606	150-160	0.9740	848.7	99.8,99.8
170	3.732	3.755	3.798	3.784	3.871	3.776	3.748	3.710	160-170	0.9064	849.6	100,100
180	4.417	4.360	4.337	4.342	4.427	4.389	4.351	4.346	170-180	0.3857	850.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

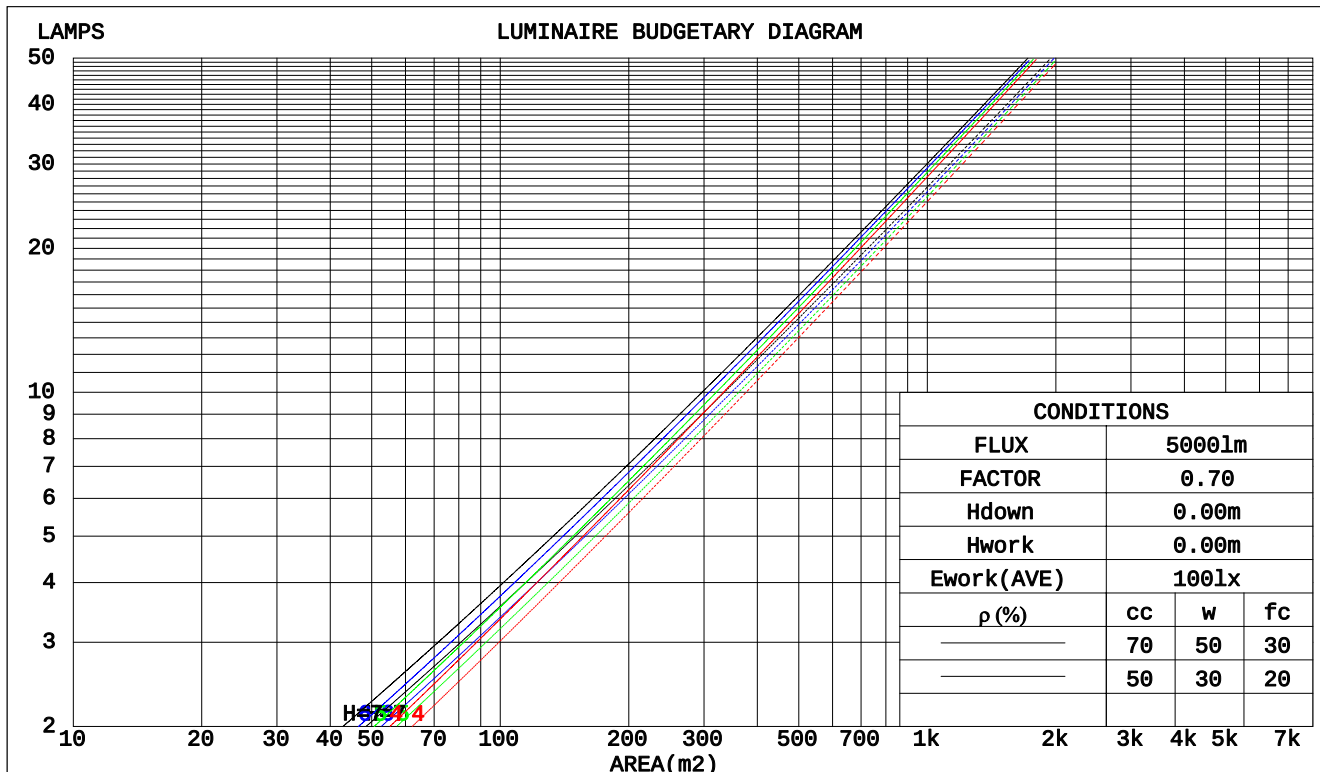
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.99	.97	.99	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.93	.88	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.86	.84	.81	.80
5.0	.89	.83	.80	.88	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.77	.76
6.0	.84	.79	.75	.83	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
7.0	.80	.75	.71	.80	.75	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
8.0	.77	.71	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.73	.69	.67	.66
9.0	.73	.68	.65	.73	.68	.65	.72	.67	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.68	.64	.61	.60



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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm									
NAME: SPOT03-3000K-90RA-36D					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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.162	.092	.029	.155	.089	.028	.142	.082	.026	.131	.075	.024	.120	.070	.022		
2.0	.154	.084	.026	.148	.081	.025	.137	.076	.024	.127	.071	.022	.118	.067	.021		
3.0	.145	.077	.023	.140	.075	.023	.131	.071	.022	.123	.067	.021	.115	.064	.020		
4.0	.137	.071	.021	.133	.070	.021	.126	.067	.020	.118	.064	.019	.112	.061	.018		
5.0	.130	.066	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.108	.058	.017		
6.0	.124	.062	.018	.121	.061	.018	.115	.059	.017	.110	.057	.017	.105	.055	.016		
7.0	.118	.058	.017	.116	.058	.016	.110	.056	.016	.106	.054	.016	.101	.052	.015		
8.0	.113	.055	.016	.111	.054	.015	.106	.053	.015	.102	.052	.015	.098	.050	.015		
9.0	.108	.052	.015	.106	.052	.015	.102	.050	.014	.098	.049	.014	.094	.048	.014		
10.0	.104	.050	.014	.102	.049	.014	.098	.048	.014	.095	.047	.013	.091	.046	.013		

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	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.173	.160	.149	.148	.138	.128	.101	.095	.089	.058	.055	.052	.019	.018	.017	
2.0	.157	.135	.118	.134	.117	.102	.092	.081	.071	.053	.047	.042	.017	.015	.014	
3.0	.143	.116	.095	.123	.100	.082	.084	.070	.058	.049	.041	.034	.016	.013	.011	
4.0	.132	.101	.078	.113	.088	.068	.078	.061	.048	.045	.036	.028	.015	.012	.009	
5.0	.123	.090	.065	.106	.077	.057	.073	.054	.040	.042	.032	.024	.014	.010	.008	
6.0	.115	.080	.055	.099	.069	.048	.068	.048	.034	.040	.029	.020	.013	.009	.007	
7.0	.108	.072	.047	.093	.063	.041	.064	.044	.029	.037	.026	.017	.012	.008	.006	
8.0	.102	.066	.041	.088	.057	.036	.061	.040	.025	.035	.024	.015	.011	.008	.005	
9.0	.097	.060	.036	.083	.052	.031	.058	.037	.022	.034	.022	.013	.011	.007	.004	
10.0	.092	.056	.032	.079	.049	.028	.055	.034	.020	.032	.020	.012	.010	.007	.004	

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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm											
NAME: SPOT03-3000K-90RA-36D					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	3.9	4.7	4.1	4.8	5.0	3.7	4.6	3.9	4.7	4.9	
3H	3.8	4.6	4.1	4.8	5.0	3.7	4.5	3.9	4.7	4.9	
4H	3.7	4.5	4.0	4.7	4.9	3.6	4.3	3.9	4.6	4.8	
6H	3.6	4.3	3.9	4.6	4.8	3.5	4.2	3.8	4.4	4.7	
8H	3.6	4.2	3.9	4.5	4.8	3.5	4.1	3.8	4.4	4.6	
12H	3.5	4.2	3.9	4.4	4.7	3.4	4.1	3.7	4.3	4.6	
4H 2H	3.8	4.5	4.0	4.7	4.9	3.7	4.4	3.9	4.6	4.8	
3H	3.7	4.4	4.1	4.6	4.9	3.6	4.2	3.9	4.5	4.8	
4H	3.6	4.2	4.0	4.5	4.8	3.5	4.1	3.9	4.4	4.7	
6H	3.5	4.0	3.9	4.4	4.7	3.4	3.9	3.8	4.3	4.6	
8H	3.5	4.0	3.9	4.3	4.7	3.4	3.8	3.8	4.2	4.6	
12H	3.4	3.9	3.9	4.2	4.6	3.3	3.7	3.7	4.1	4.5	
8H 4H	3.5	4.0	3.9	4.3	4.7	3.4	3.8	3.8	4.2	4.6	
6H	3.4	3.8	3.8	4.2	4.6	3.3	3.7	3.7	4.1	4.5	
8H	3.3	3.7	3.8	4.1	4.5	3.2	3.6	3.7	4.0	4.4	
12H	3.3	3.6	3.7	4.0	4.5	3.2	3.4	3.6	3.9	4.4	
12H 4H	3.4	3.9	3.9	4.2	4.6	3.3	3.8	3.7	4.1	4.5	
6H	3.3	3.7	3.8	4.1	4.5	3.2	3.6	3.7	4.0	4.4	
8H	3.3	3.6	3.7	4.0	4.5	3.2	3.4	3.6	3.9	4.4	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.1 / - 3.5					+ 1.9 / - 3.3					
1.5H	+ 2.8 / - 2.4					+ 2.6 / - 2.2					
2.0H	+ 3.3 / - 3.5					+ 3.0 / - 3.3					

CIE Pub.117 Corrected 850.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.6)

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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

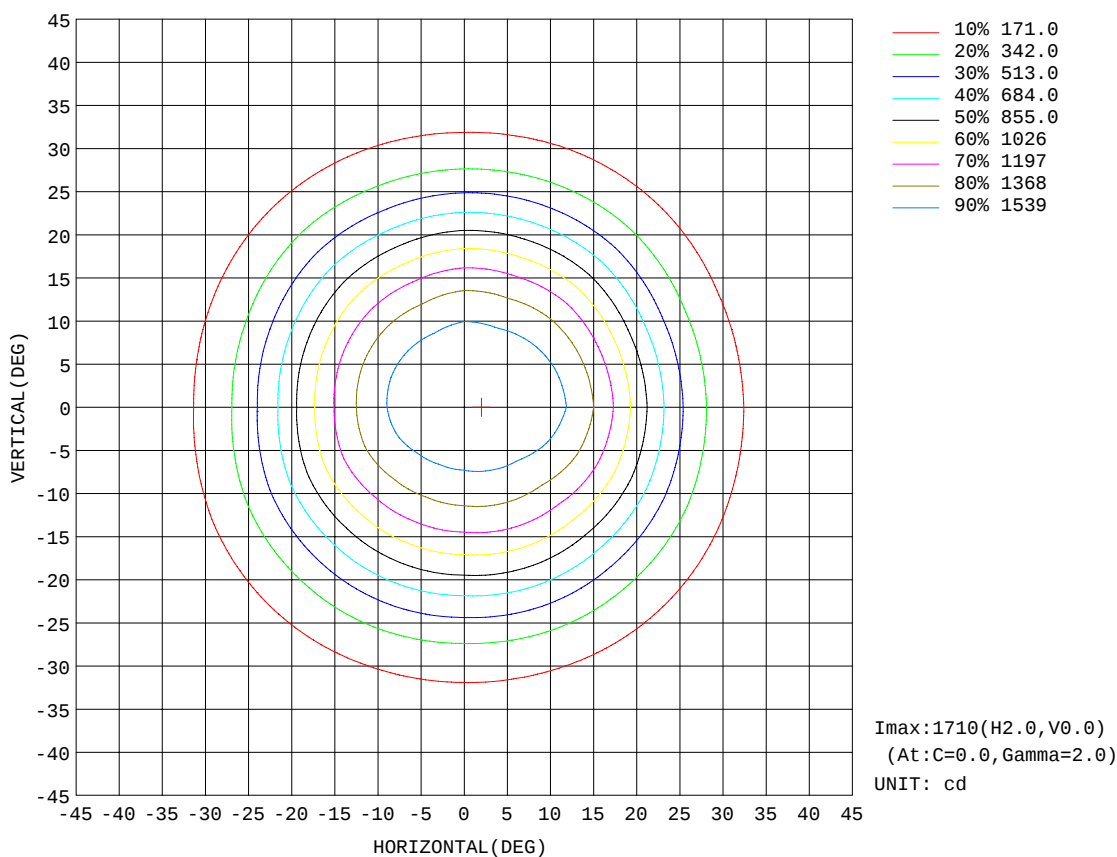
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	106	104	109	105	103	105	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

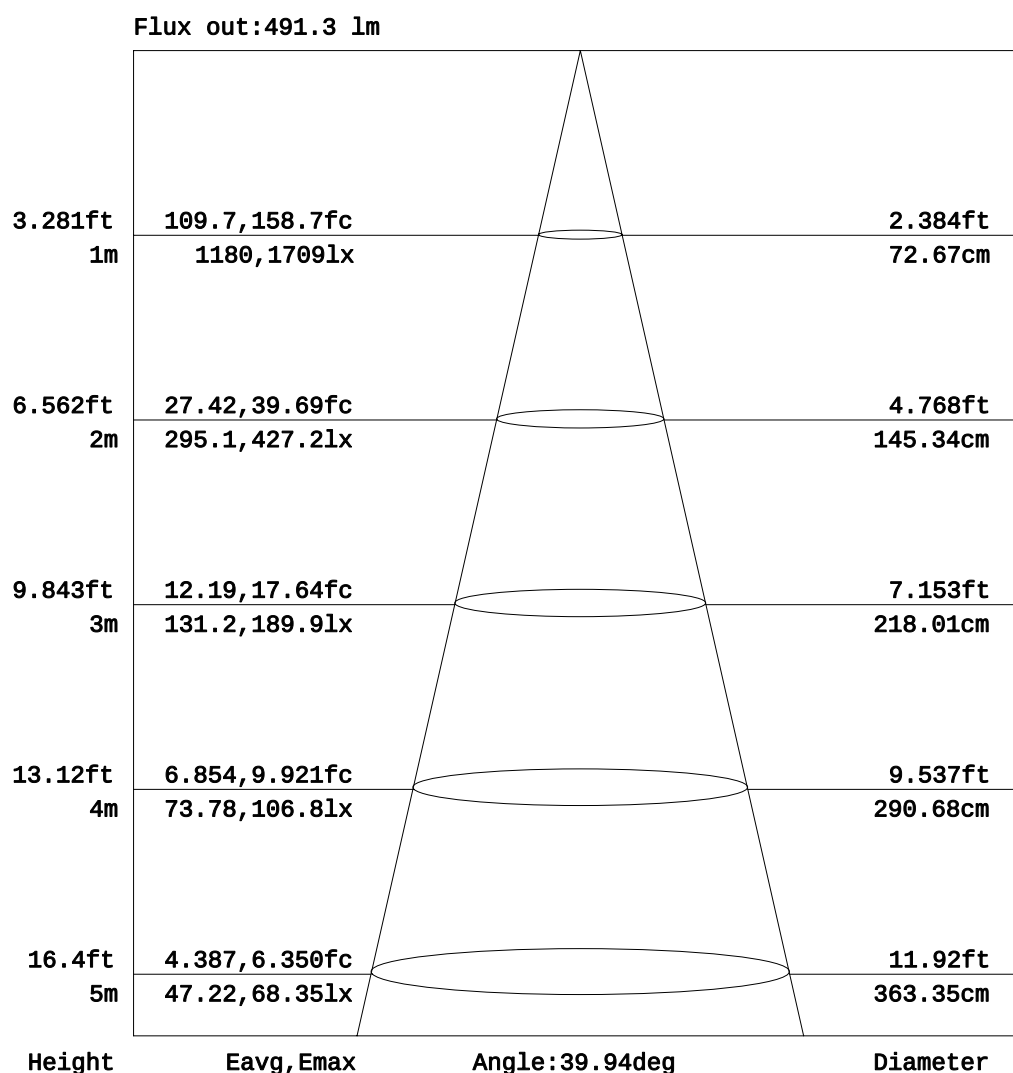


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-07-28

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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



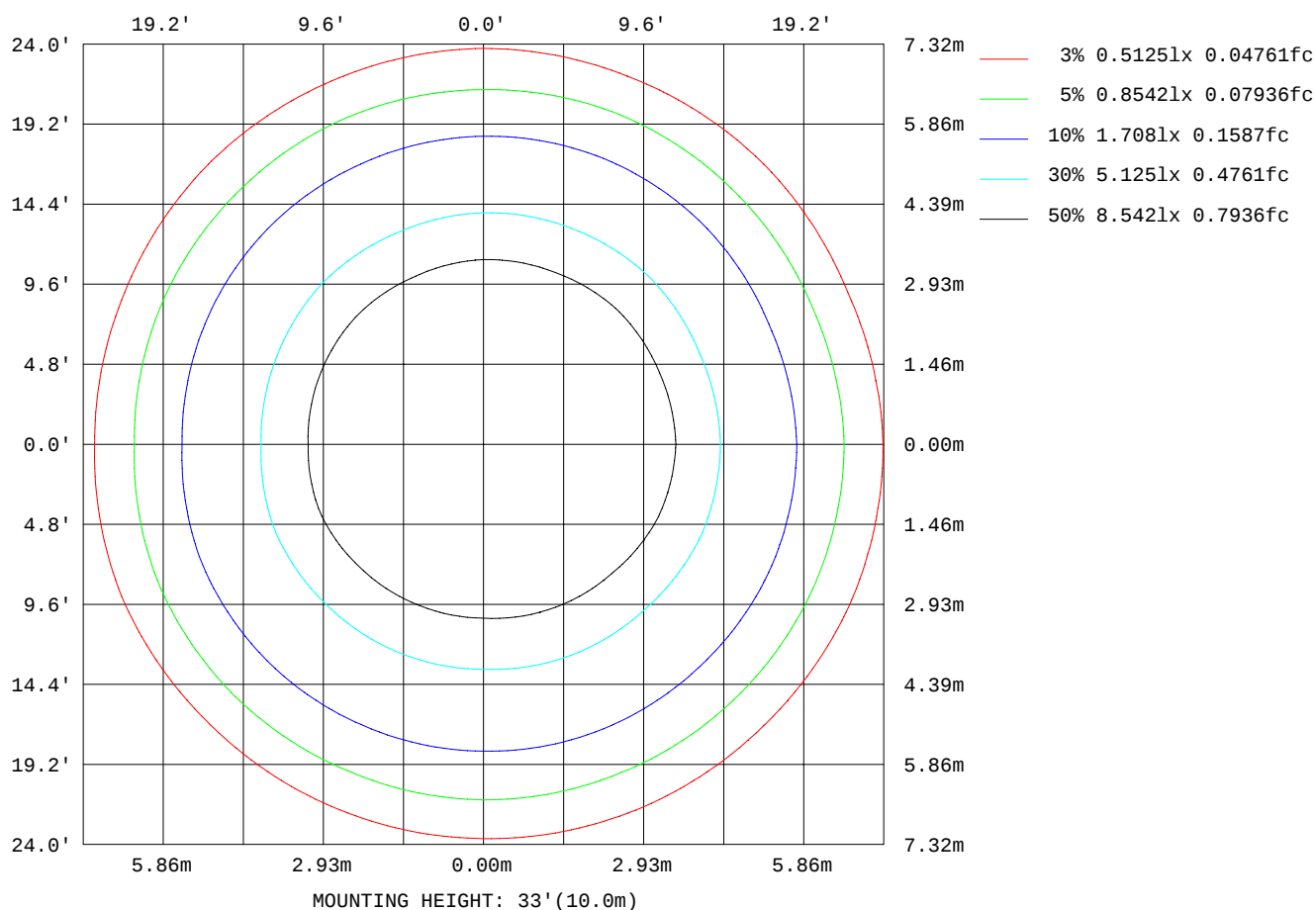
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	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	850.017	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	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	292	291	291	290	290	292	296	299	299	297	295	292	290	288	288	289	288	282	277
60	197	196	196	196	198	202	206	209	210	210	207	205	202	201	201	202	201	198	194
65	135	135	135	134	134	135	139	141	141	141	140	140	138	137	137	139	138	134	129
70	65	66	66	64	62	61	62	63	63	63	65	67	67	66	66	68	67	63	58
75	4	4	4	4	4	4	3	2	3	4	4	3	3	3	4	5	5	3	1
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	299	200	---	500
Category 2	65 to 90	141	200	---	500
Category 3	75 to 90	5	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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm		
NAME: SPOT03-3000K-90RA-36D	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	850.017	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	292	291	291	290	290	292	296	299	299	297	295	292	290	288	288	289	288	282	277
60	197	196	196	196	198	202	206	209	210	210	207	205	202	201	201	202	201	198	194
65	135	135	135	134	134	135	139	141	141	141	140	140	138	137	137	139	138	134	129
70	65	66	66	64	62	61	62	63	63	63	65	67	67	66	66	68	67	63	58
75	4	4	4	4	4	4	3	2	3	4	4	3	3	3	4	5	5	3	1
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	299	1000	1500	200	500
65 to 90	141	1000	1500	200	500

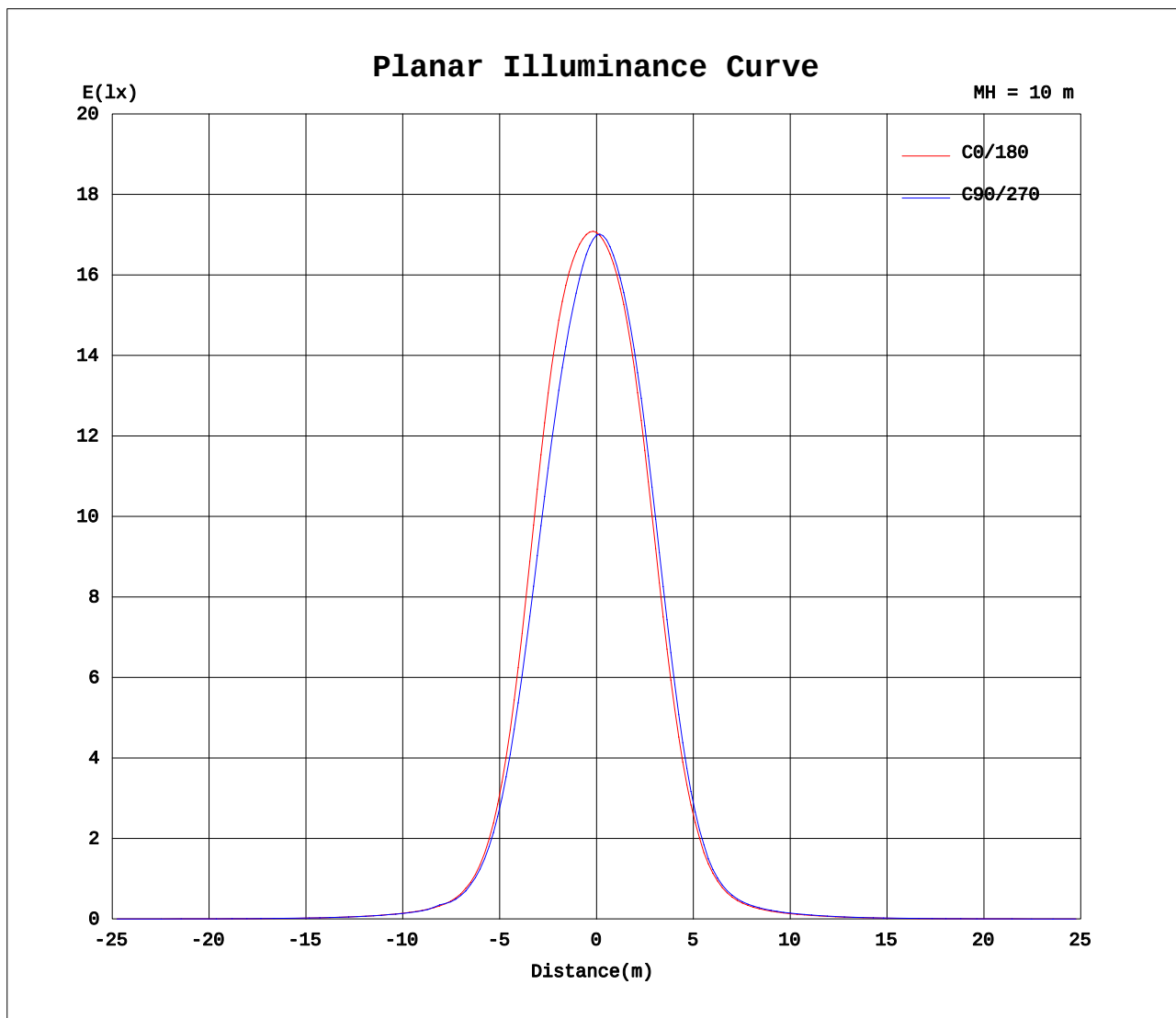
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:0.4100A P:9.840W PF:1.000 Lamp Flux:850.017x1 lm																	
NAME: SPOT03-3000K-90RA-36D									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	1706	1702	1700	1700	1699	1691	1690	1690	1706	1702	1700	1700	1699	1691	1690	1690			
5	1695	1671	1643	1624	1609	1607	1612	1626	1647	1652	1657	1659	1668	1664	1674	1680			
10	1607	1556	1491	1461	1434	1430	1446	1481	1497	1506	1508	1509	1537	1537	1564	1590			
15	1368	1318	1239	1199	1165	1161	1174	1208	1205	1223	1239	1242	1277	1284	1324	1346			
20	962	937	879	848	817	814	816	831	808	829	857	864	896	910	940	938			
25	540	536	507	493	475	474	471	474	448	460	482	484	503	516	530	519			
30	252	249	241	234	231	228	227	226	212	218	223	227	230	240	240	238			
35	114	114	110	109	106	105	103	104	99.5	100	104	105	108	108	109	107			
40	63.3	63.2	61.7	60.9	65.2	58.5	58.0	58.5	57.1	57.9	59.9	61.2	62.6	61.8	62.1	61.0			
45	41.1	40.9	40.1	40.0	39.5	38.9	38.8	38.8	37.8	38.4	39.8	40.7	41.7	41.2	41.4	40.3			
50	27.2	27.1	26.8	27.0	26.8	26.4	26.3	26.2	25.4	25.6	26.6	27.2	27.9	27.4	27.5	26.6			
55	16.7	16.7	16.7	17.1	17.0	16.7	16.5	16.6	15.9	15.7	16.6	16.9	17.3	16.7	16.7	16.1			
60	9.85	9.79	9.97	10.4	10.5	10.2	10.0	10.1	9.71	9.44	9.94	10.2	10.5	9.99	9.86	9.50			
65	5.69	5.69	5.65	5.95	5.95	5.89	5.76	5.89	5.46	5.31	5.57	5.71	6.00	5.74	5.73	5.51			
70	2.23	2.24	2.09	2.16	2.15	2.31	2.25	2.32	2.00	1.94	2.04	2.05	2.25	2.28	2.30	2.17			
75	0.10	0.10	0.10	0.06	0.10	0.08	0.09	0.13	0.04	0.09	0.05	0.09	0.07	0.10	0.05	0.11			
80	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			
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	0.00	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			
115	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			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.02	0.00			
125	0.00	0.04	0.00	0.03	0.00	0.04	0.00	0.04	0.07	0.02	0.06	0.02	0.06	0.01	0.05	0.01			
130	0.09	0.14	0.08	0.14	0.08	0.15	0.10	0.15	0.17	0.12	0.16	0.10	0.15	0.10	0.15	0.09			
135	0.26	0.32	0.27	0.33	0.26	0.34	0.30	0.34	0.35	0.31	0.34	0.27	0.32	0.26	0.31	0.26			
140	0.56	0.61	0.57	0.64	0.58	0.66	0.62	0.67	0.67	0.60	0.62	0.56	0.59	0.54	0.57	0.54			
145	0.95	1.01	0.99	1.06	1.03	1.10	1.08	1.11	1.12	1.05	1.05	0.98	0.99	0.94	0.97	0.94			
150	1.47	1.53	1.53	1.60	1.60	1.66	1.64	1.67	1.67	1.59	1.57	1.49	1.50	1.44	1.47	1.45			
155	2.05	2.12	2.13	2.20	2.21	2.26	2.24	2.26	2.26	2.17	2.16	2.08	2.07	2.01	2.04	2.01			
160	2.63	2.71	2.71	2.79	2.80	2.85	2.81	2.83	2.82	2.73	2.71	2.65	2.66	2.58	2.61	2.58			
165	3.20	3.27	3.25	3.33	3.33	3.37	3.31	3.34	3.36	3.25	3.26	3.20	3.22	3.14	3.17	3.13			
170	3.73	3.80	3.76	3.83	3.80	3.84	3.78	3.83	3.87	3.76	3.78	3.71	3.75	3.68	3.71	3.69			
175	4.18	4.22	4.16	4.21	4.16	4.22	4.16	4.21	4.28	4.19	4.19	4.13	4.17	4.11	4.16	4.12			
180	4.42	4.43	4.36	4.36	4.34	4.35	4.34	4.37	4.43	4.38	4.39	4.35	4.35	4.33	4.35	4.35			

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: