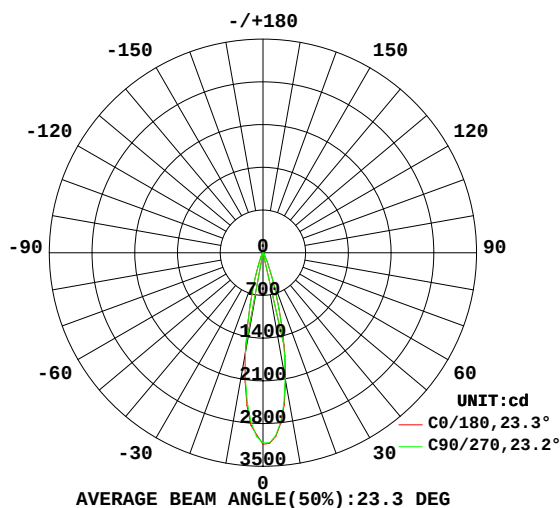


LUMINAIRE PHOTOMETRIC TEST REPORT

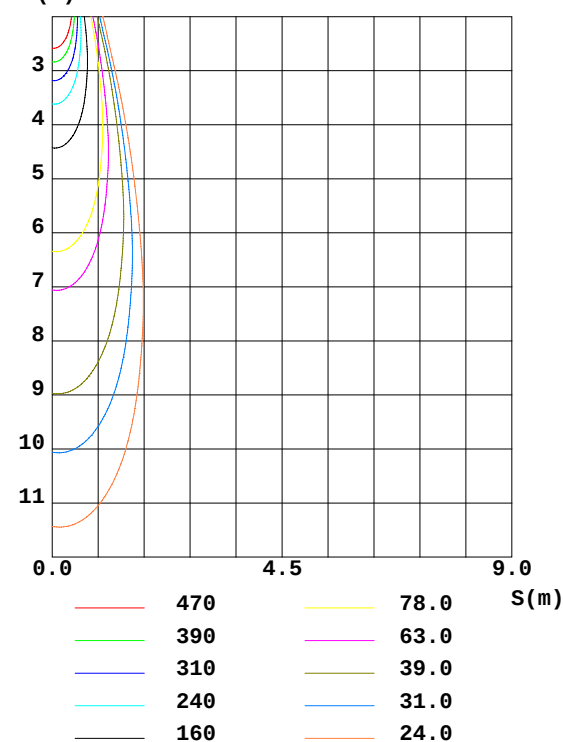
Test:U:24.00V I:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: CL-Gemini45-uls 8W-24D-LENS-3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.66 lm/W			
MODEL		I _{max} (cd)	3139	S/MH(C0/180)	0.42
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	600.23	η UP, DN(C0-180)	0.2, 55.9
NOMINAL FLUX(lm)	600.234	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 43.7
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	1.00

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:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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	2136	2176	2097	1908	1680	1557	1658	1908	0- 10	236.7	236.7	39.4, 39.4
20	447.0	501.9	452.8	341.1	238.5	206.0	242.6	334.2	10- 20	259.2	496.0	82.6, 82.6
30	65.10	70.82	62.61	53.39	43.80	40.60	44.77	54.50	20- 30	67.06	563.0	93.8, 93.8
40	21.67	22.55	21.50	19.36	16.30	15.61	16.81	19.43	30- 40	19.81	582.8	97.1, 97.1
50	10.08	10.00	9.747	8.388	7.003	6.612	7.267	8.744	40- 50	10.25	593.1	98.8, 98.8
60	2.823	2.832	2.629	1.887	1.299	1.077	1.314	1.964	50- 60	4.269	597.3	99.5, 99.5
70	0.0010	0.0112	0.0008	0	0	0	0	0	60- 70	0.6331	598.0	99.6, 99.6
80	0	0	0	0	0	0	0	0	70- 80	0.0001	598.0	99.6, 99.6
90	0	0	0	0	0	0	0	0	80- 90	0	598.0	99.6, 99.6
100	0	0	0	0	0	0	0	0	90-100	0	598.0	99.6, 99.6
110	0	0	0	0	0	0	0	0	100-110	0	598.0	99.6, 99.6
120	0	0	0	0	0	0	0	0	110-120	0	598.0	99.6, 99.6
130	0	0	0	0	0	0.0000	0	0	120-130	0.0000	598.0	99.6, 99.6
140	0.0799	0.0422	0.0234	0.1128	0.1988	0.2131	0.1941	0.1327	130-140	0.0236	598.0	99.6, 99.6
150	0.7586	0.6926	0.7492	0.9379	1.087	1.148	1.078	0.9171	140-150	0.2703	598.3	99.7, 99.7
160	2.348	2.268	2.348	2.547	2.668	2.743	2.649	2.446	150-160	0.7583	599.0	99.8, 99.8
170	3.572	3.510	3.520	3.553	3.625	3.592	3.554	3.474	160-170	0.8710	599.9	99.9, 99.9
180	3.813	3.747	3.709	3.672	3.799	3.761	3.714	3.686	170-180	0.3459	600.2	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

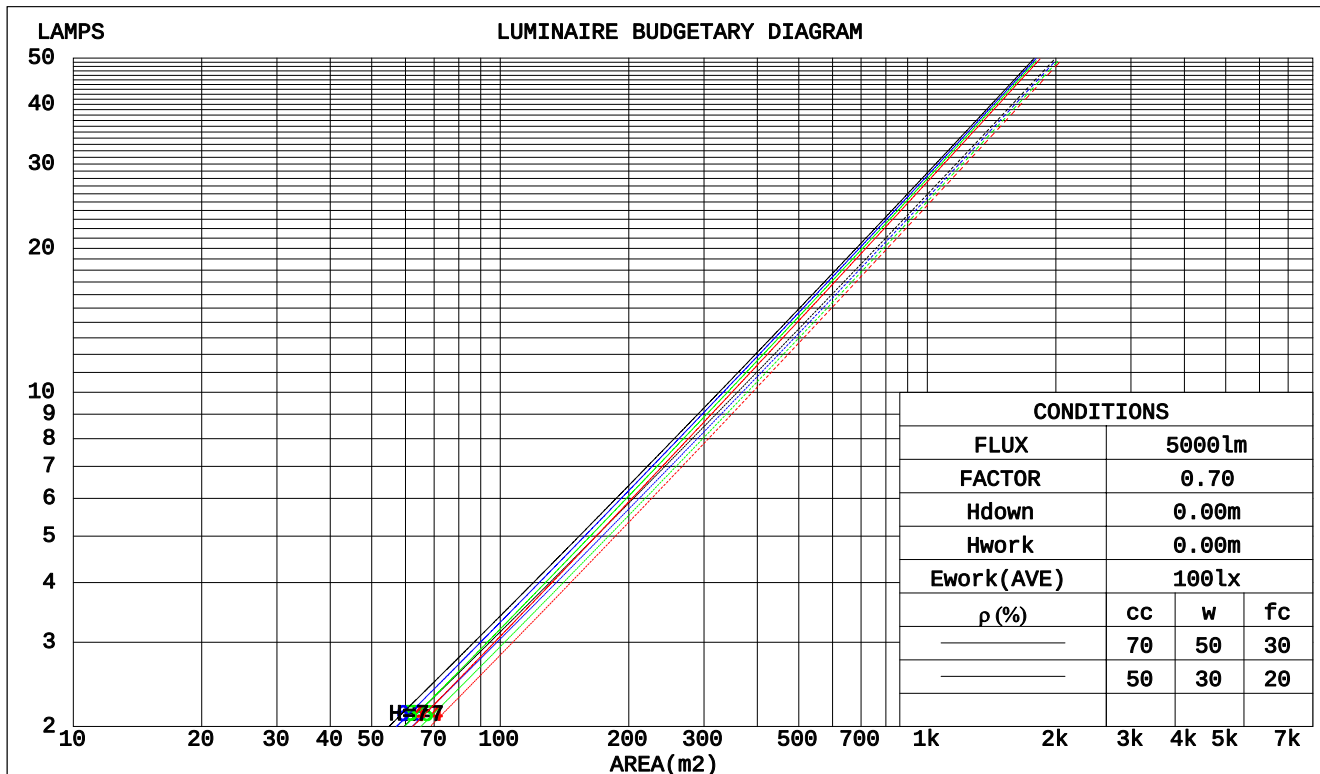
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 0
Test Date: 2022-11-17

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.95	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.96	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.91	.89	.93	.90	.88	.92	.89	.87	.90	.88	.86	.85
6.0	.93	.89	.86	.92	.88	.86	.91	.87	.85	.89	.87	.84	.88	.86	.84	.83
7.0	.90	.86	.83	.89	.86	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
8.0	.87	.83	.81	.87	.83	.80	.86	.83	.80	.85	.82	.80	.84	.82	.80	.79
9.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.78	.82	.80	.78	.77
10.0	.83	.79	.76	.82	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.76	.75



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm									
NAME: SPOT45-S 8W/24D/LENS/3000K90RA					TYPE:			WEIGHT:	
DIM.:					SPEC.:			SERIAL No.:	
MFR.: 0					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	.135	.077	.024	.128	.073	.023	.115	.066	.021	.104	.060	.019	.093	.054	.017	
2.0	.125	.068	.021	.119	.066	.020	.109	.060	.019	.099	.056	.017	.090	.051	.016	
3.0	.116	.062	.018	.111	.060	.018	.103	.056	.017	.095	.052	.016	.087	.048	.015	
4.0	.109	.056	.017	.105	.055	.016	.097	.052	.015	.091	.049	.015	.084	.046	.014	
5.0	.102	.052	.015	.099	.051	.015	.093	.048	.014	.087	.046	.014	.081	.043	.013	
6.0	.096	.048	.014	.094	.047	.014	.088	.045	.013	.083	.043	.013	.078	.041	.012	
7.0	.091	.045	.013	.089	.044	.013	.084	.043	.012	.080	.041	.012	.076	.039	.012	
8.0	.087	.042	.012	.085	.042	.012	.081	.040	.012	.077	.039	.011	.073	.038	.011	
9.0	.083	.040	.011	.081	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.010	
10.0	.079	.038	.011	.078	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.171	.161	.151	.146	.138	.130	.100	.095	.090	.058	.055	.052	.018	.018	.017	
2.0	.153	.136	.121	.131	.117	.105	.090	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.138	.116	.099	.118	.100	.086	.081	.070	.060	.047	.041	.035	.015	.013	.012	
4.0	.125	.101	.082	.107	.087	.071	.074	.061	.050	.043	.036	.030	.014	.012	.010	
5.0	.115	.088	.069	.098	.077	.060	.068	.053	.043	.039	.031	.025	.013	.010	.008	
6.0	.106	.078	.059	.091	.068	.051	.063	.048	.036	.036	.028	.022	.012	.009	.007	
7.0	.098	.070	.051	.084	.061	.044	.058	.043	.031	.034	.025	.019	.011	.008	.006	
8.0	.091	.063	.044	.079	.055	.039	.054	.039	.027	.032	.023	.016	.010	.007	.005	
9.0	.085	.058	.039	.074	.050	.034	.051	.035	.024	.030	.021	.014	.010	.007	.005	
10.0	.080	.053	.035	.069	.046	.030	.048	.032	.021	.028	.019	.013	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 γ 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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm											
NAME: SPOT45-S 8W/24D/LENS/3000K90RA					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.: 0					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		-2.7	-2.1	-2.5	-1.9	-1.8	-2.8	-2.2	-2.6	-2.1	-1.9
	3H	-2.9	-2.3	-2.6	-2.1	-1.9	-3.0	-2.4	-2.7	-2.2	-2.0
	4H	-3.0	-2.4	-2.7	-2.2	-2.0	-3.1	-2.5	-2.8	-2.3	-2.1
	6H	-3.0	-2.5	-2.8	-2.3	-2.0	-3.2	-2.6	-2.9	-2.4	-2.1
	8H	-3.1	-2.6	-2.8	-2.3	-2.1	-3.2	-2.7	-2.9	-2.4	-2.2
	12H	-3.1	-2.6	-2.8	-2.4	-2.1	-3.2	-2.7	-2.9	-2.5	-2.2
4H	2H	-2.9	-2.3	-2.6	-2.1	-1.9	-3.0	-2.4	-2.7	-2.2	-2.0
	3H	-3.0	-2.5	-2.7	-2.3	-2.0	-3.1	-2.6	-2.8	-2.4	-2.1
	4H	-3.1	-2.7	-2.8	-2.4	-2.1	-3.2	-2.8	-2.9	-2.5	-2.2
	6H	-3.2	-2.8	-2.8	-2.5	-2.1	-3.3	-2.9	-3.0	-2.6	-2.2
	8H	-3.3	-2.9	-2.9	-2.5	-2.2	-3.4	-3.0	-3.0	-2.7	-2.3
	12H	-3.3	-3.0	-2.9	-2.6	-2.2	-3.4	-3.1	-3.0	-2.7	-2.3
8H	4H	-3.3	-2.9	-2.9	-2.5	-2.2	-3.4	-3.0	-3.0	-2.7	-2.3
	6H	-3.4	-3.1	-3.0	-2.7	-2.3	-3.5	-3.2	-3.1	-2.8	-2.4
	8H	-3.5	-3.2	-3.0	-2.8	-2.3	-3.6	-3.3	-3.1	-2.9	-2.4
	12H	-3.5	-3.3	-3.0	-2.8	-2.4	-3.6	-3.4	-3.2	-2.9	-2.5
12H	4H	-3.3	-3.0	-2.9	-2.6	-2.2	-3.4	-3.1	-3.0	-2.7	-2.3
	6H	-3.5	-3.2	-3.0	-2.8	-2.3	-3.6	-3.3	-3.1	-2.9	-2.4
	8H	-3.5	-3.3	-3.0	-2.8	-2.4	-3.6	-3.4	-3.2	-2.9	-2.5
Variations with the observer position at spacings:											
S = 1.0H		+ 1.9 / - 4.3					+ 2.2 / - 4.7				
1.5H		+ 2.1 / - 2.6					+ 2.7 / - 2.8				
2.0H		+ 3.8 / - 7.1					+ 4.0 / - 7.5				

CIE Pub.117 Corrected 600.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.8)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

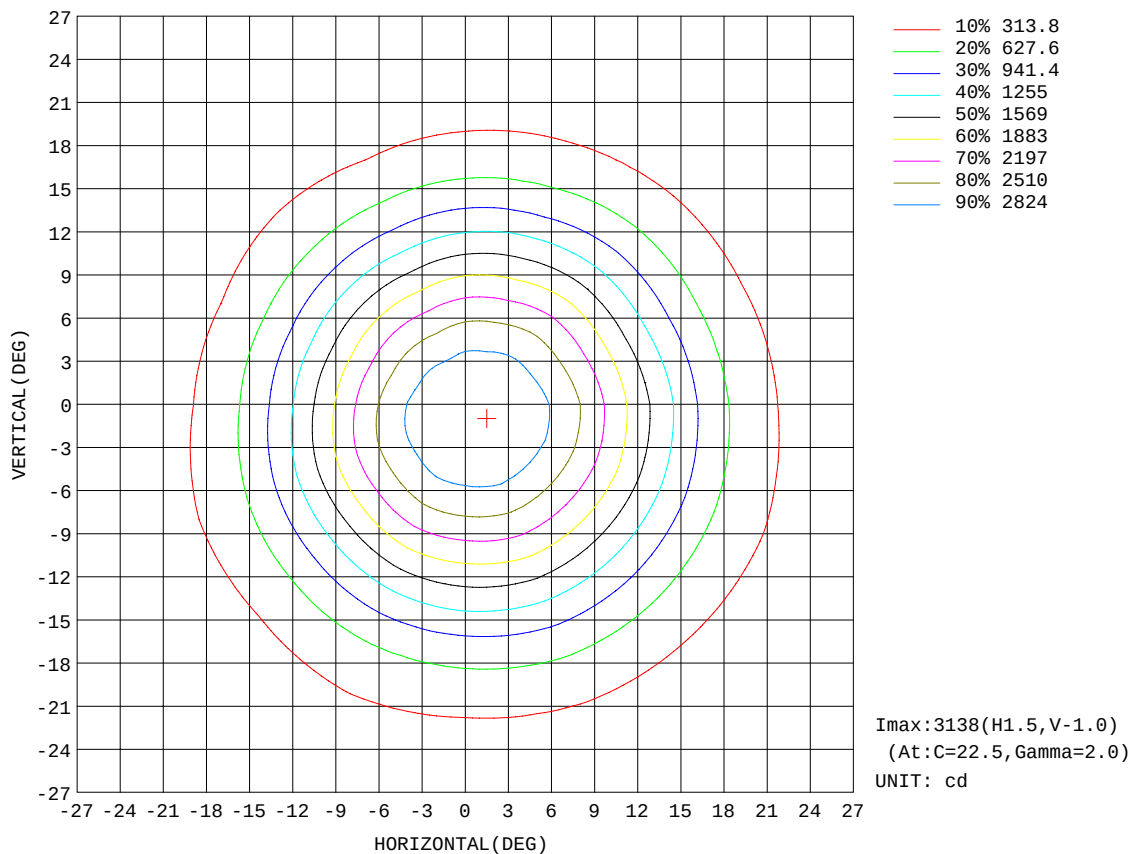
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	105	100	97	103	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	106	103	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
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:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



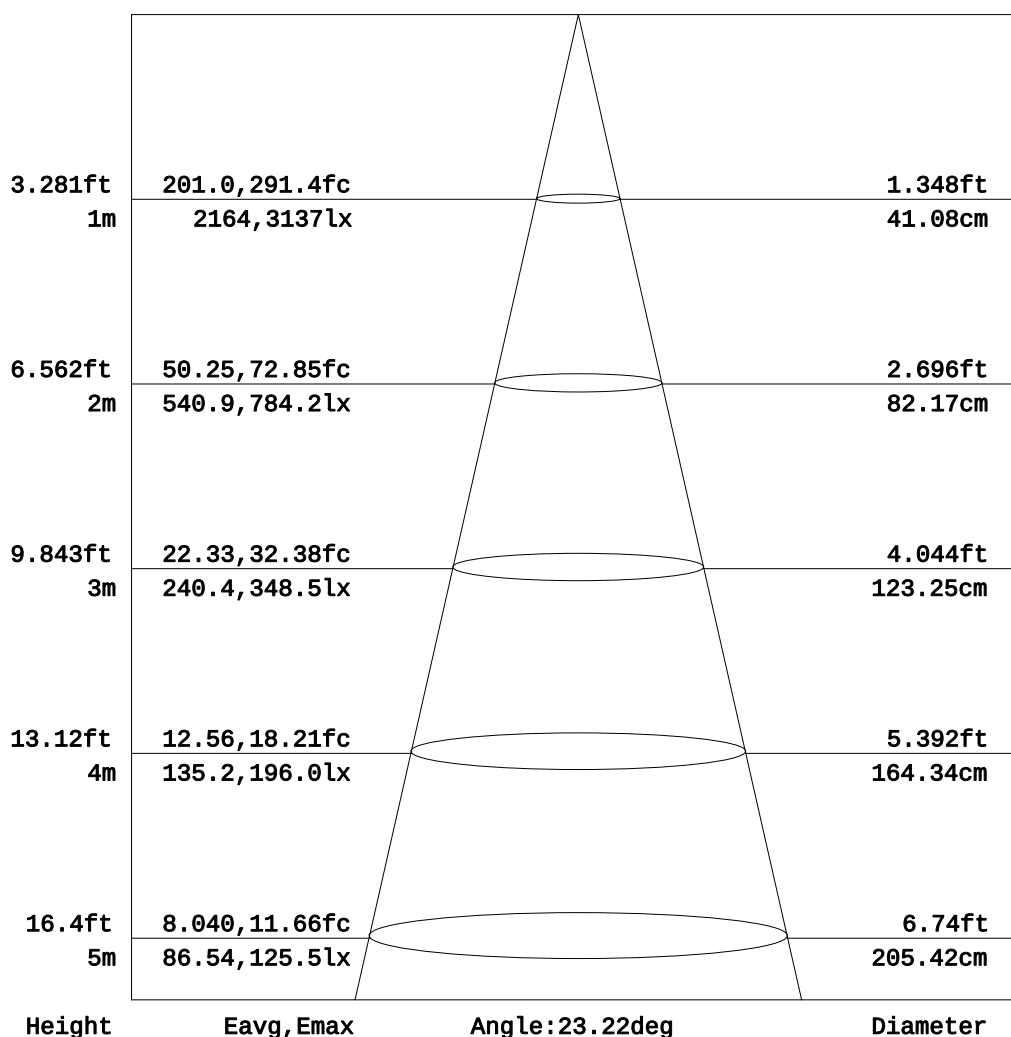
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:

Flux out:307.1 lm



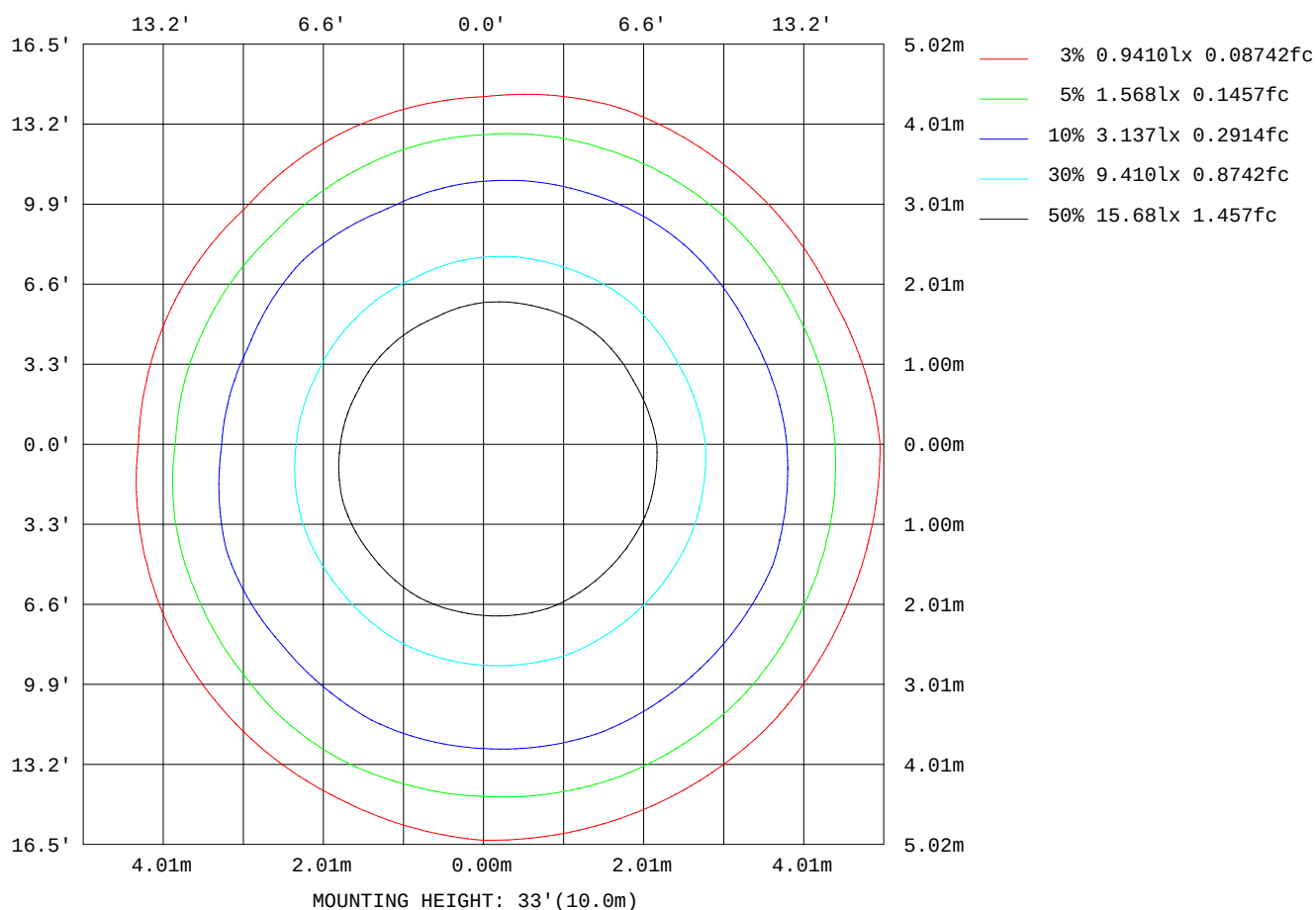
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	600.234	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	101	102	102	101	100	99	100	100	99	97	94	91	86	81	76	73	70	66	62
60	56	57	58	58	57	56	56	55	54	53	49	46	42	39	36	33	30	28	26
65	18	20	22	22	22	22	21	20	18	15	13	10	9	8	8	7	7	5	4
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	102	200	---	500
Category 2	65 to 90	22	200	---	500
Category 3	75 to 90	0	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:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm		
NAME: SPOT45-S 8W/24D/LENS/3000K90RA	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: 0	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	600.234	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	101	102	102	101	100	99	100	100	99	97	94	91	86	81	76	73	70	66	62
60	56	57	58	58	57	56	56	55	54	53	49	46	42	39	36	33	30	28	26
65	18	20	22	22	22	22	21	20	18	15	13	10	9	8	8	7	7	5	4
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	102	1000	1500	200	500
65 to 90	22	1000	1500	200	500

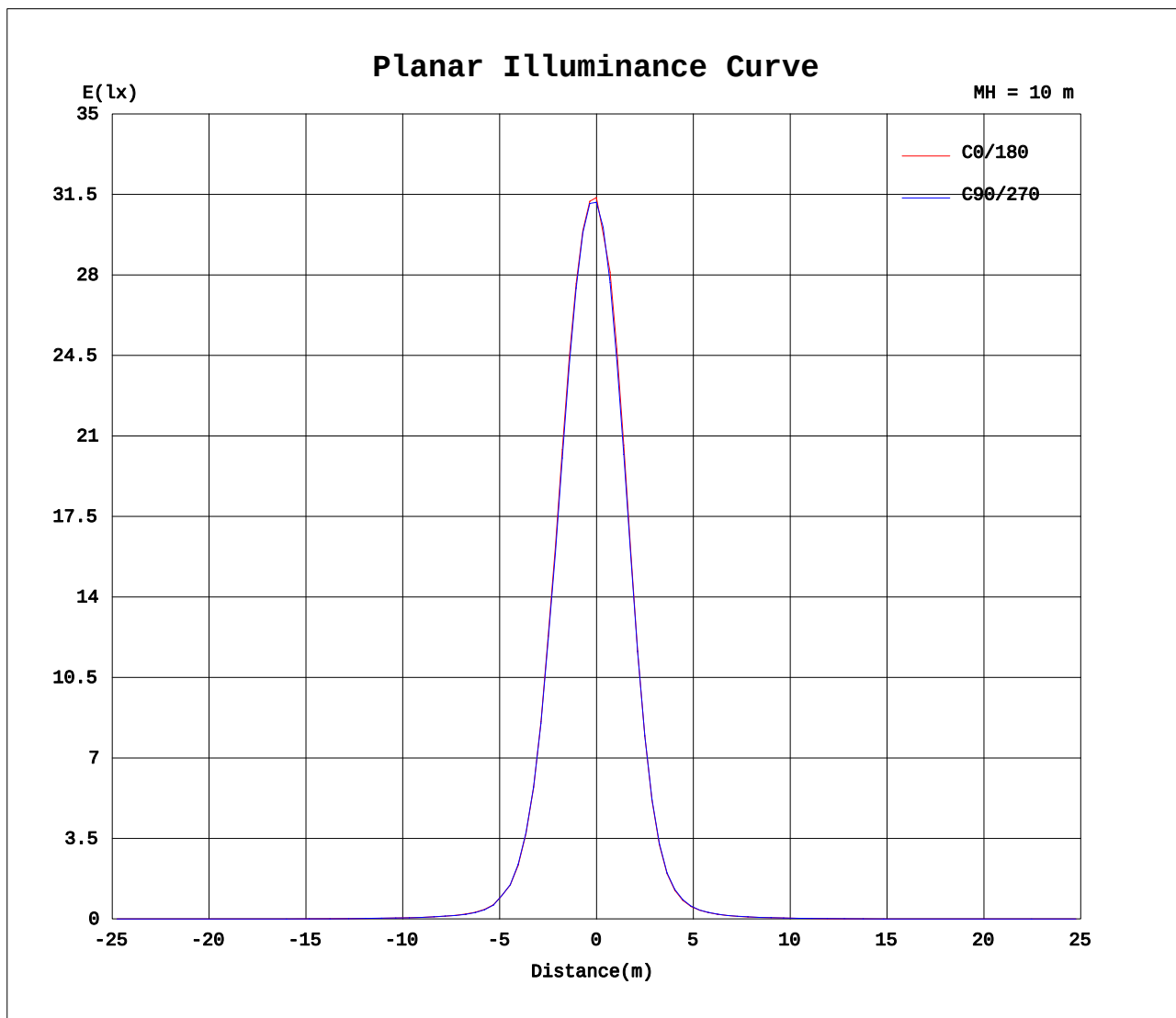
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

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:0
Test Date:2022-11-17

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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: 0
Test Date: 2022-11-17

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
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:0.3350A P:8.040W PF:1.000 Lamp Flux:600.234x1 lm																	
NAME: SPOT45-S 8W/24D/LENS/3000K90RA									TYPE:						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:		
MFR.: 0									SUR.:						PROTECTION ANGLE:		

Table--1

UNIT: cd

C(°)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
γ (°)	0	3137	3128	3125	3114	3116	3113	3117	3121	3137	3128	3125	3114	3116	3113	3117	3121		
5	3016	3039	3032	3040	3006	2990	2928	2895	2833	2765	2752	2733	2788	2821	2907	2946			
10	2136	2183	2176	2178	2097	2040	1908	1824	1680	1574	1557	1554	1658	1750	1908	1989			
15	1347	1393	1390	1391	1328	1234	1095	999	871	792	779	786	872	955	1092	1177			
20	447	491	502	498	453	408	341	322	238	214	206	215	243	282	334	371			
25	194	211	221	215	196	174	151	129	107	95.7	94.8	99.4	111	137	147	164			
30	65.1	68.9	70.8	69.9	62.6	58.3	53.4	49.2	43.8	40.9	40.6	43.1	44.8	47.4	54.5	58.7			
35	38.6	40.1	40.9	40.5	36.4	34.6	33.1	30.8	27.5	25.6	25.3	27.0	27.8	28.9	33.4	35.7			
40	21.7	22.3	22.6	22.5	21.5	20.1	19.4	18.0	16.3	15.5	15.6	16.6	16.8	17.3	19.4	20.6			
45	16.1	16.4	16.4	16.4	15.4	14.9	14.2	13.2	12.1	11.6	11.8	12.4	12.6	13.0	14.3	15.3			
50	10.1	10.2	10.0	10.1	9.75	9.20	8.39	7.76	7.00	6.51	6.61	6.87	7.27	7.74	8.74	9.37			
55	6.55	6.65	6.46	6.54	6.28	5.88	5.12	4.69	4.16	3.79	3.88	3.93	4.20	4.64	5.44	6.01			
60	2.82	2.89	2.83	2.78	2.63	2.23	1.89	1.54	1.30	1.26	1.08	1.12	1.31	1.51	1.96	2.41			
65	1.08	1.29	1.18	1.18	0.96	0.68	0.52	0.49	0.39	0.27	0.23	0.23	0.32	0.54	0.70	0.79			
70	0.00	0.00	0.01	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			
75	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			
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	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			
130	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			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.03	0.00	0.02	0.00	0.00	0.00			
140	0.08	0.10	0.04	0.09	0.02	0.12	0.11	0.18	0.20	0.16	0.21	0.17	0.19	0.12	0.13	0.07			
145	0.23	0.25	0.18	0.24	0.20	0.31	0.32	0.41	0.43	0.42	0.47	0.43	0.44	0.35	0.34	0.25			
150	0.76	0.74	0.69	0.74	0.75	0.88	0.94	1.05	1.09	1.10	1.15	1.11	1.08	0.98	0.92	0.81			
155	1.33	1.30	1.24	1.29	1.33	1.45	1.54	1.66	1.69	1.71	1.77	1.73	1.69	1.56	1.48	1.37			
160	2.35	2.32	2.27	2.31	2.35	2.47	2.55	2.68	2.67	2.68	2.74	2.70	2.65	2.52	2.45	2.34			
165	2.99	2.97	2.91	2.95	2.97	3.07	3.13	3.24	3.21	3.20	3.24	3.19	3.18	3.05	3.00	2.91			
170	3.57	3.59	3.51	3.54	3.52	3.58	3.55	3.63	3.62	3.56	3.59	3.53	3.55	3.45	3.47	3.41			
175	3.71	3.73	3.65	3.67	3.62	3.66	3.61	3.67	3.72	3.64	3.66	3.60	3.62	3.55	3.57	3.53			
180	3.81	3.79	3.75	3.74	3.71	3.71	3.67	3.69	3.80	3.76	3.76	3.70	3.71	3.69	3.69	3.68			

C Range: 0 - 360DEG
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Test Speed: HIGH
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Test Date:2022-11-17

γ Range: 0 - 180DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
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Remarks: