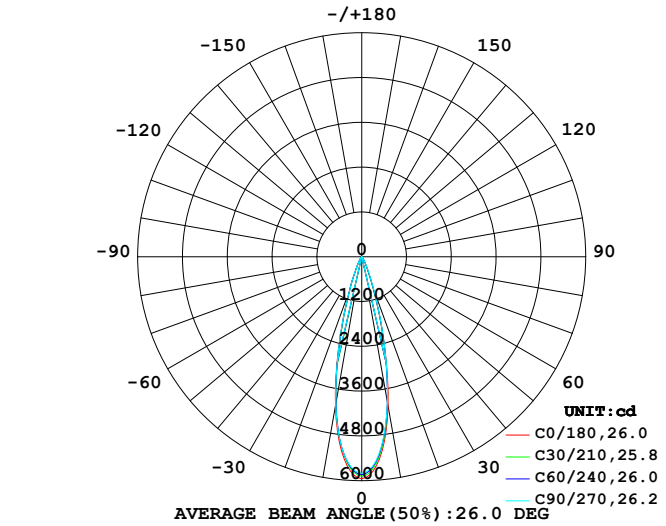
LUMINAIRE PHOTOMETRIC TEST REPORT

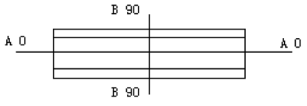
Test:U:219.95V I:0.2264A P:17.817W PF:0.4181 Freq:50.00Hz Lamp Flux:1346.9x1 lm		
NAME: 6558 - 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:6558
MFR.: NORDECOR	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA		Eff: 64.70 lm/W	
MODEL		Imax(cd)	5941	S/MH(C0/180)	0.43
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	1152.75	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	1152.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX	0.30

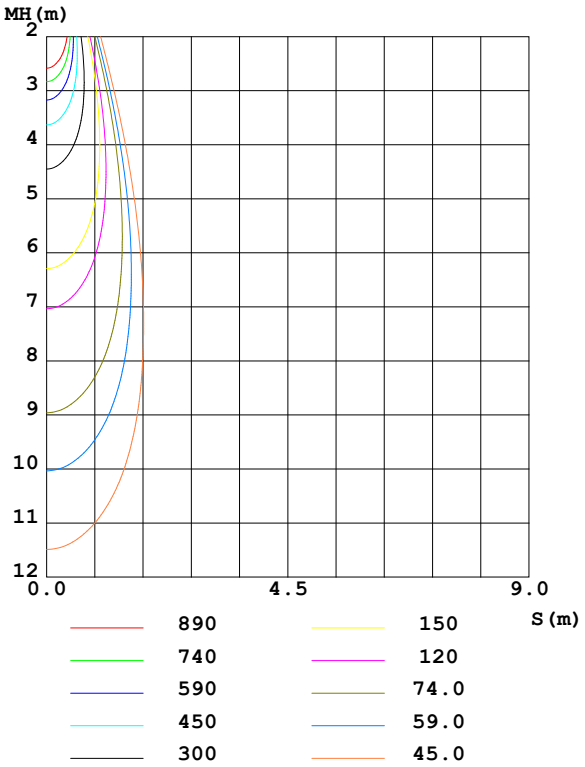
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):26.0 DEG



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [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	4066	3987	3954	3999	4064	3956	4011	3960	0- 10	465.8	465.8	34.6,34.6
20	903.8	906.7	965.9	972.9	954.2	920.6	952.0	889.9	10- 20	607.6	1073	79.7,79.7
30	148.8	144.2	164.3	169.1	166.8	158.6	167.7	151.0	20- 30	185.7	1259	93.5,93.5
40	45.20	44.29	49.23	47.77	46.90	48.28	49.02	45.63	30- 40	54.02	1313	97.5,97.5
50	14.20	13.78	13.54	14.12	15.30	16.08	16.19	14.92	40- 50	22.64	1336	99.2,99.2
60	4.983	5.346	5.432	5.774	5.643	5.295	5.466	5.072	50- 60	8.706	1344	99.8,99.8
70	0.1408	0.1764	0.2955	0.3893	0.1923	0.1660	0.1535	0.1520	60- 70	2.299	1347	100,100
80	0.0572	0.0642	0.0712	0.0612	0.0672	0.0692	0.0733	0.0733	70- 80	0.1007	1347	100,100
90	0.0662	0.0732	0.0712	0.0702	0.0552	0.0632	0.0592	0.0622	80- 90	0.0680	1347	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1327.2 lm

%lum = 98.5%
%lamp = 98.5%

Conical surface Flux(120deg): 1344.4 lm

%lum = 99.8%
%lamp = 99.8%

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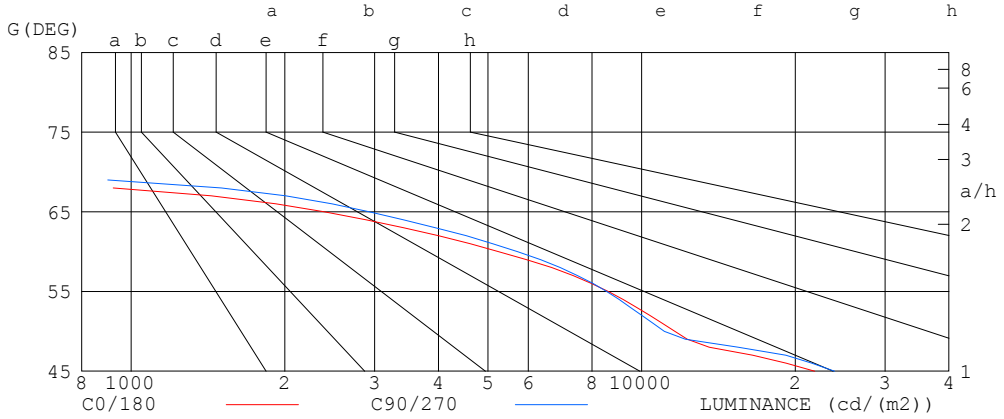
Operators:
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	388	448
80	173	216
75	151	196
70	217	455
65	2392	2930
60	5245	5718
55	8609	8544
50	11624	11085
45	21838	23877

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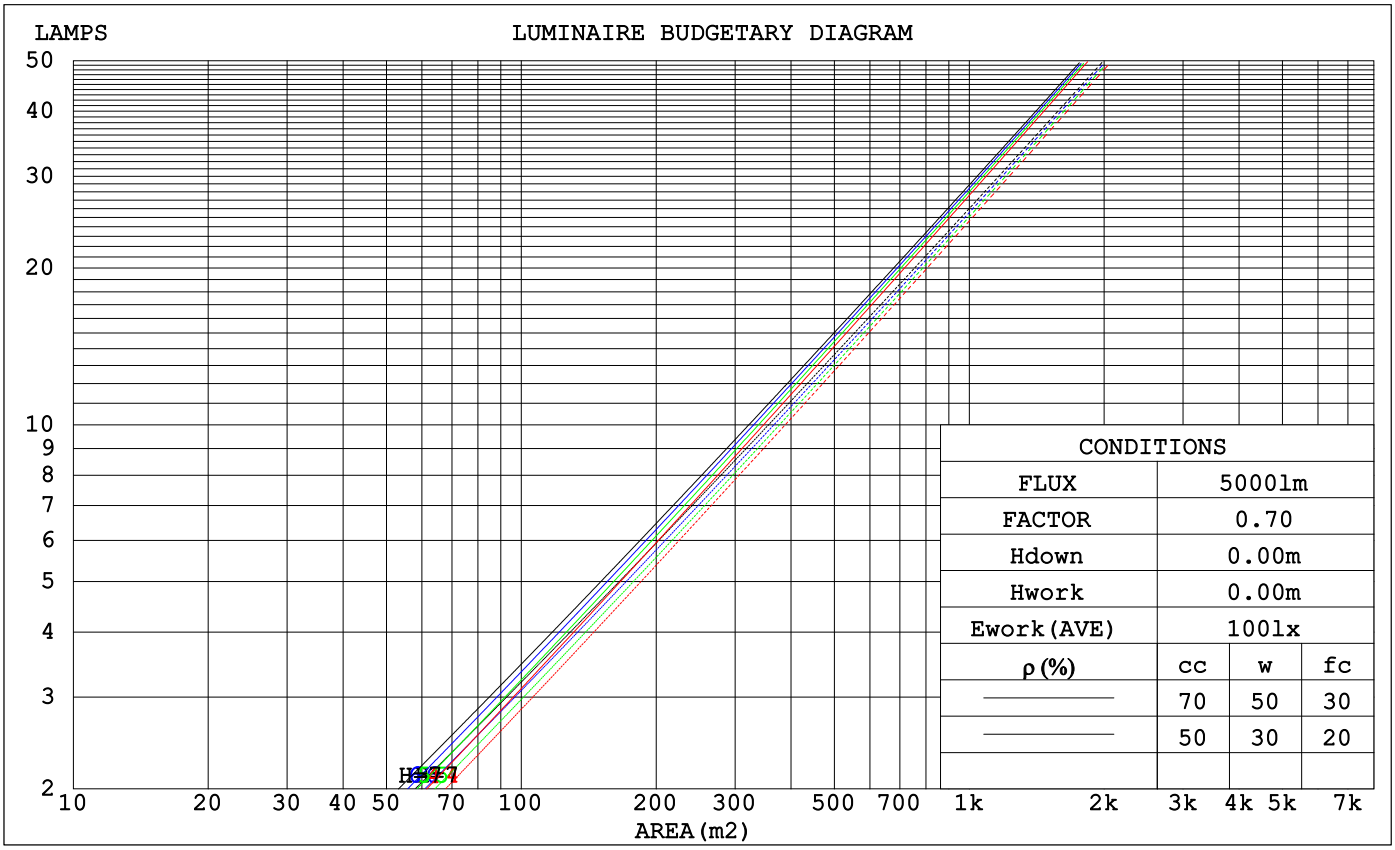
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

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	1.19	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	1.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.87	.84	.91	.87	.84	.90	.86	.84	.88	.85	.83	.87	.85	.83	.81
7.0	.89	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.79	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.74	.73



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γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [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	.138	.079	.025	.132	.075	.024	.119	.068	.022	.108	.062	.020	.097	.056	.018	
2.0	.129	.070	.022	.123	.068	.021	.113	.063	.019	.103	.058	.018	.095	.054	.017	
3.0	.120	.064	.019	.115	.062	.019	.107	.058	.018	.099	.054	.017	.092	.051	.016	
4.0	.113	.059	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015	.089	.048	.015	
5.0	.106	.054	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014	.086	.046	.014	
6.0	.100	.050	.014	.098	.049	.014	.092	.047	.014	.087	.045	.013	.083	.044	.013	
7.0	.095	.047	.013	.093	.046	.013	.088	.045	.013	.084	.043	.013	.080	.042	.012	
8.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.077	.040	.012	
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.082	.039	.011	.078	.038	.011	.075	.037	.011	.073	.036	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.066	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.055	.089	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.096	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [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	12.8	13.5	13.0	13.6	13.8	13.1	13.7	13.3	13.9	14.0
	3H	12.7	13.3	12.9	13.5	13.7	13.0	13.6	13.2	13.8	14.0
	4H	12.6	13.2	12.9	13.4	13.6	12.9	13.5	13.1	13.7	13.9
	6H	12.5	13.1	12.8	13.3	13.5	12.8	13.4	13.1	13.6	13.8
	8H	12.5	13.0	12.8	13.3	13.5	12.8	13.3	13.1	13.5	13.8
	12H	12.4	13.0	12.7	13.2	13.5	12.7	13.2	13.0	13.5	13.8
4H	2H	12.7	13.3	12.9	13.5	13.7	13.0	13.5	13.2	13.7	14.0
	3H	12.5	13.1	12.8	13.3	13.6	12.8	13.3	13.1	13.6	13.9
	4H	12.4	12.9	12.8	13.2	13.5	12.7	13.2	13.1	13.5	13.8
	6H	12.3	12.8	12.7	13.1	13.4	12.6	13.0	13.0	13.4	13.7
	8H	12.3	12.7	12.7	13.0	13.4	12.6	13.0	12.9	13.3	13.7
	12H	12.2	12.6	12.6	13.0	13.3	12.5	12.9	12.9	13.2	13.6
8H	4H	12.3	12.7	12.7	13.0	13.4	12.6	13.0	12.9	13.3	13.7
	6H	12.2	12.5	12.6	12.9	13.3	12.4	12.8	12.9	13.2	13.6
	8H	12.1	12.4	12.6	12.8	13.3	12.4	12.7	12.8	13.1	13.5
	12H	12.1	12.3	12.5	12.7	13.2	12.3	12.6	12.8	13.0	13.5
12H	4H	12.2	12.6	12.6	13.0	13.3	12.5	12.9	12.9	13.2	13.6
	6H	12.1	12.4	12.6	12.8	13.3	12.4	12.7	12.8	13.1	13.5
	8H	12.1	12.3	12.5	12.7	13.2	12.3	12.6	12.8	13.0	13.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 2.3 / - 5.1					+ 2.4 / - 5.3				
1.5H		+ 3.4 / - 3.3					+ 3.6 / - 3.6				
2.0H		+ 4.7 / - 5.5					+ 5.2 / - 5.5				

CIE Pub.117, 1347 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.0)
Area: 0.0019 m2

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Operators:
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [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	90	84	81	89	84	80	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended								SHRNOM = 1.25	

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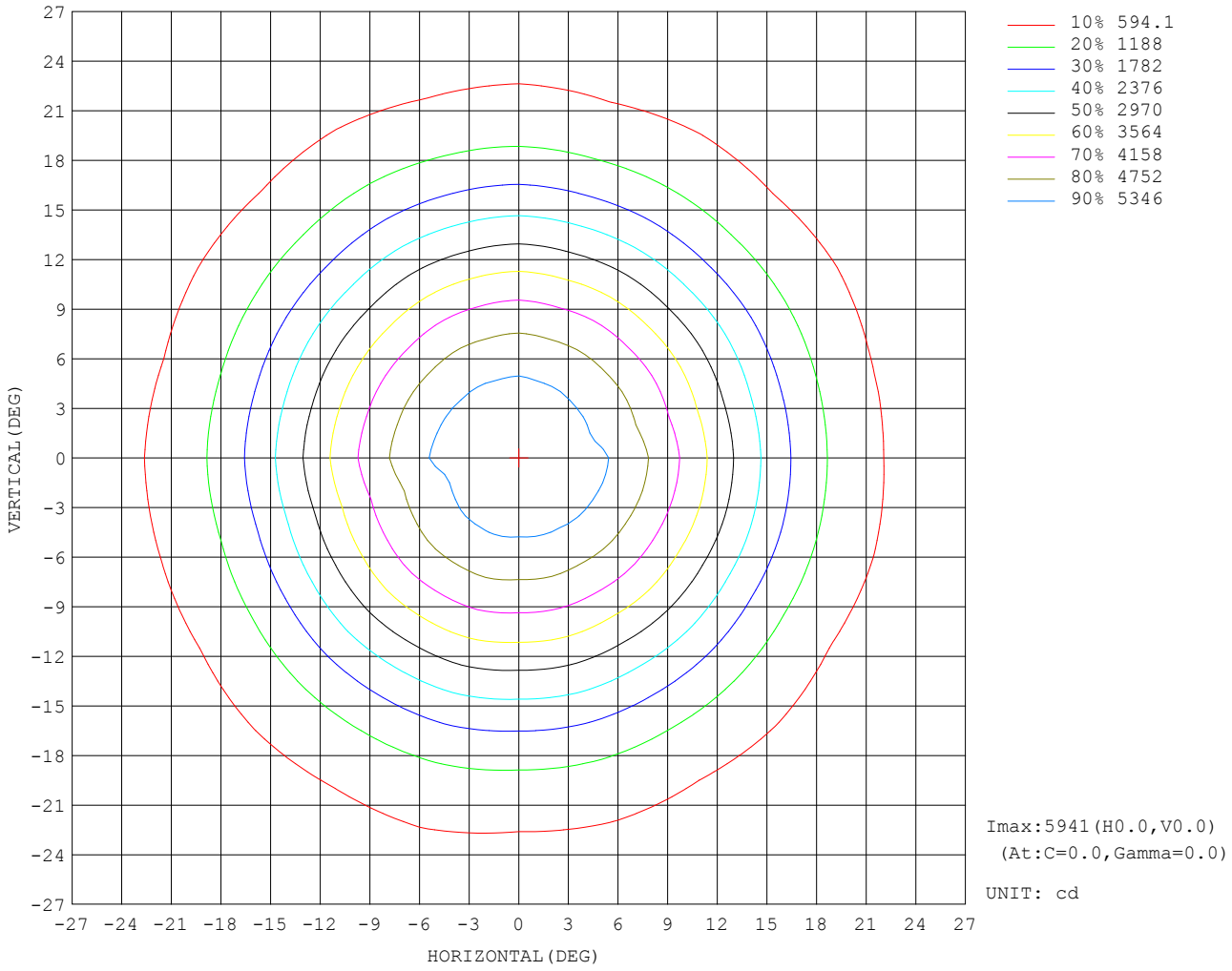
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM



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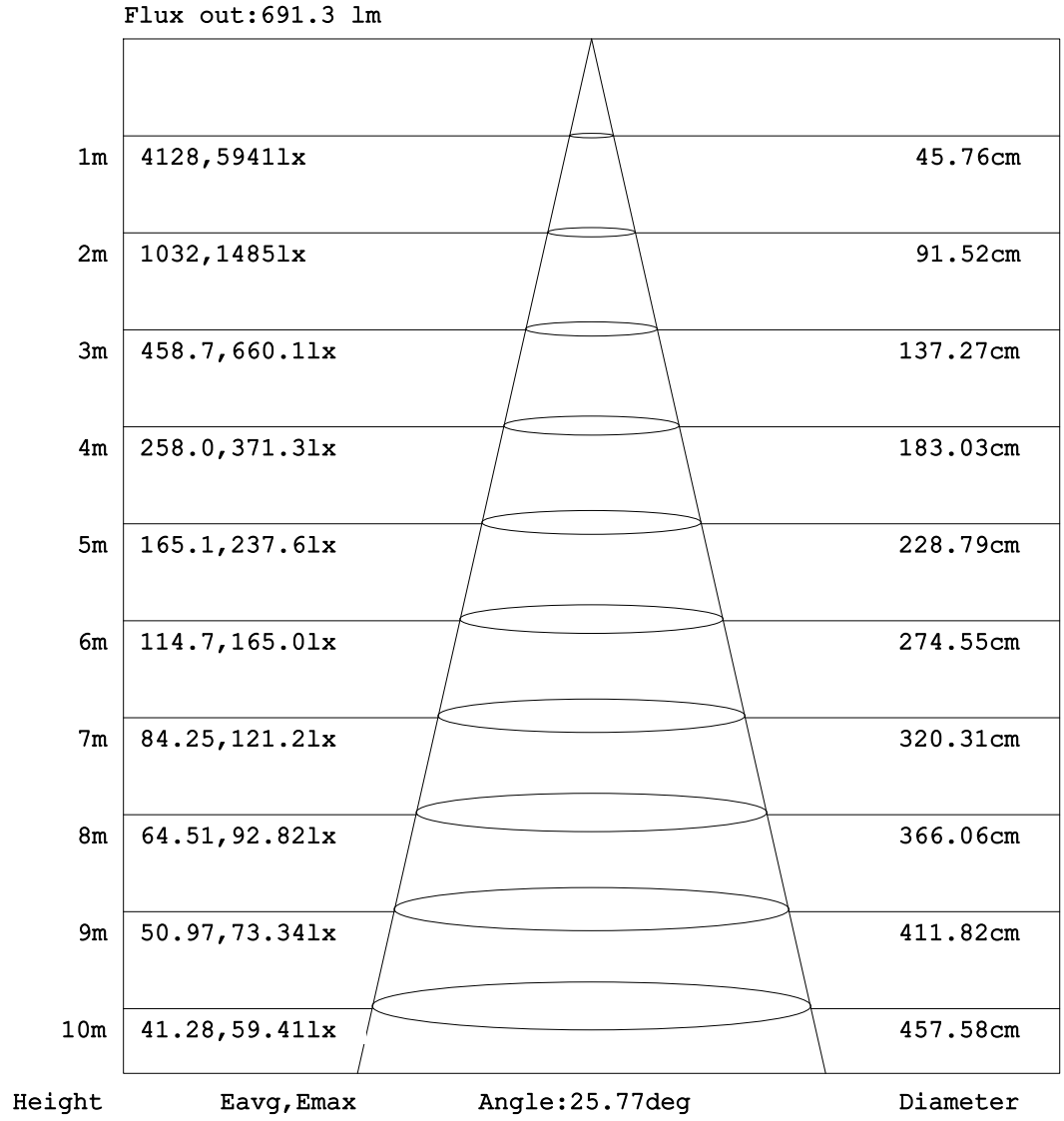
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

AAI Figure



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

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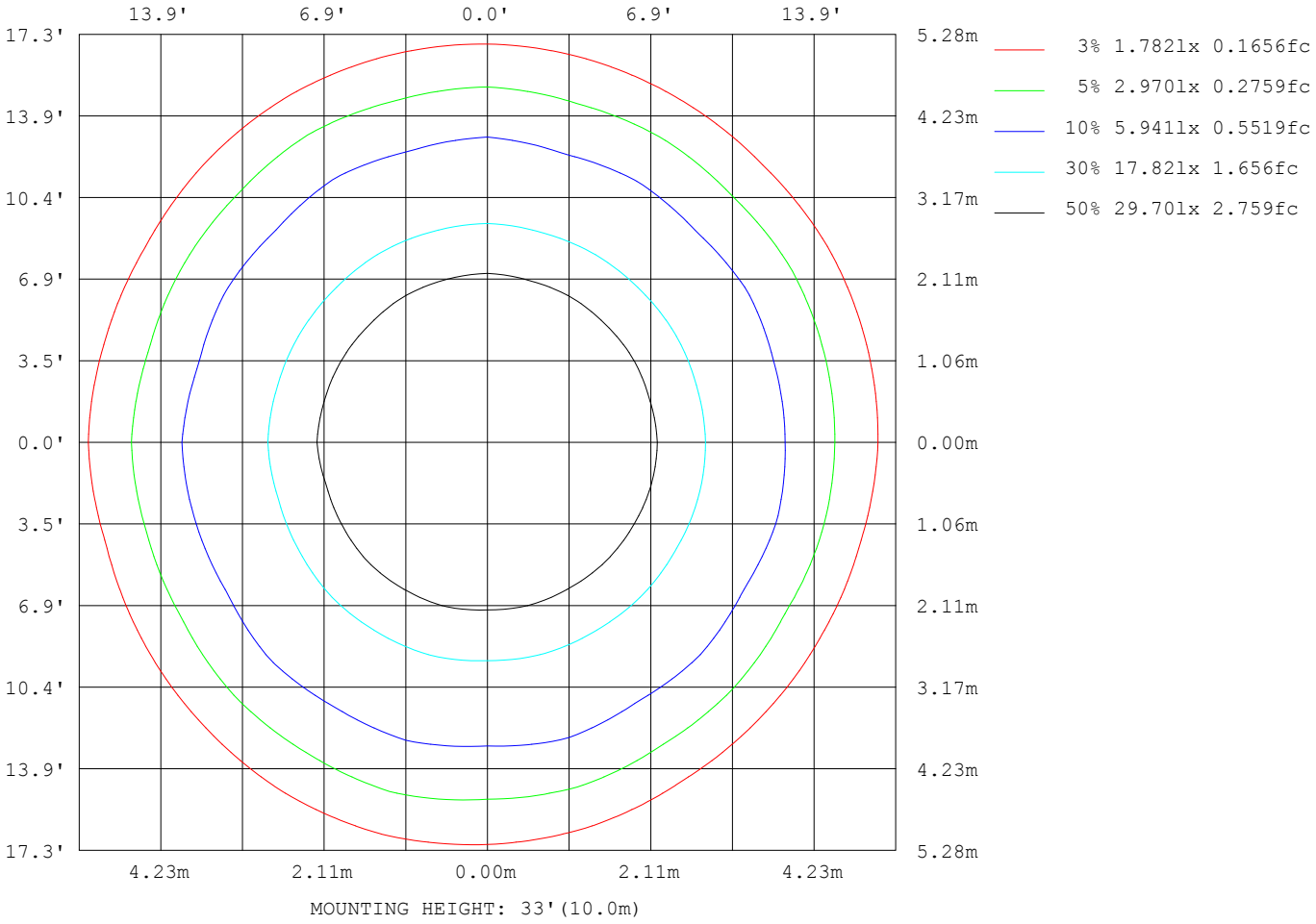
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM



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Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.95V I:0.2264A P:20.817W PF:0.4181 Freq:50.00Hz Lamp Flux:1346.9x1 lm		
NAME: MG26-S20W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	2680
L_0~180(75)av	172
L_0~180(85)av	360
L_90~270(65)av	2783
L_90~270(75)av	195
L_90~270(85)av	412
L_45(65)av	2732
L_45(75)av	177
L_45(85)av	392

Standard: GB/T 29293-2012

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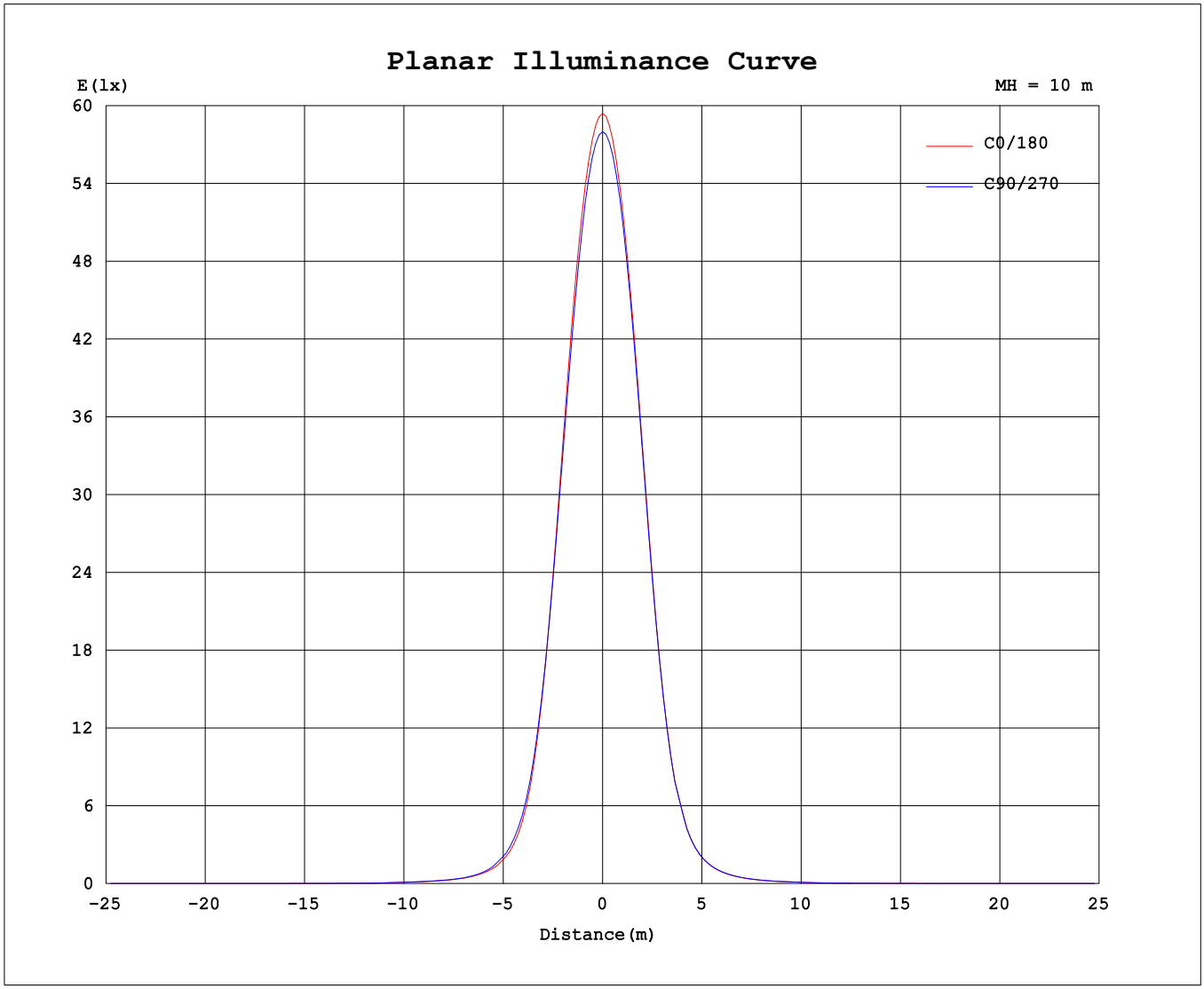
Remarks:

Planar Illuminance Curve



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Test Distance:9.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	5941	5904	5877	5854	5834	5816	5800	5784	5770	5758	5746	5734	5941	5904	5877	5854	5834	5816	5800
5	5439	5410	5376	5359	5330	5327	5308	5329	5314	5308	5270	5245	5433	5384	5358	5336	5342	5326	5340
10	4066	4033	3990	3987	3957	3973	3954	4004	3994	3999	3948	3928	4064	4002	3976	3956	3986	3985	4011
15	2249	2241	2217	2229	2219	2255	2243	2289	2269	2271	2219	2201	2278	2224	2206	2192	2230	2227	2258
20	904	898	881	907	924	968	966	1002	987	973	930	919	954	919	917	921	949	945	952
25	336	329	315	336	345	377	382	410	393	388	360	360	377	353	358	359	378	367	374
30	149	145	138	144	148	162	164	178	171	169	157	156	167	157	158	159	168	163	168
35	77.6	76.7	72.7	74.4	75.4	81.5	81.7	87.5	84.5	83.9	78.3	78.0	83.8	80.3	82.0	82.6	87.7	86.0	87.5
40	45.2	44.3	44.7	44.3	45.4	47.7	49.2	50.1	49.6	47.8	46.5	44.5	46.9	46.7	46.4	48.3	48.5	49.0	49.0
45	29.3	30.2	29.5	30.1	29.7	30.7	32.1	32.4	32.3	31.7	30.4	30.1	31.2	30.4	30.2	30.4	30.0	29.7	29.7
50	14.2	14.0	13.9	13.8	13.4	13.3	13.5	14.1	14.4	14.1	14.1	14.2	15.3	15.4	15.6	16.1	16.0	16.1	16.2
55	9.38	9.33	9.37	9.39	9.23	9.17	9.31	9.64	9.94	9.72	9.57	9.51	10.1	10.1	10.0	10.3	10.2	10.2	10.4
60	4.98	5.13	5.29	5.35	5.31	5.39	5.43	5.59	5.82	5.77	5.61	5.42	5.64	5.52	5.28	5.30	5.34	5.38	5.47
65	1.92	2.08	2.18	2.24	2.26	2.30	2.35	2.41	2.55	2.59	2.42	2.31	2.38	2.27	2.06	1.96	2.00	2.08	2.12
70	0.14	0.14	0.16	0.18	0.21	0.23	0.30	0.30	0.35	0.39	0.25	0.18	0.19	0.18	0.16	0.17	0.16	0.16	0.15
75	0.07	0.08	0.08	0.08	0.08	0.08	0.10	0.08	0.08	0.08	0.08	0.07	0.10	0.09	0.09	0.09	0.09	0.09	0.10
80	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.06	0.06	0.06	0.06	0.05	0.07	0.07	0.07	0.07	0.07	0.07	0.07
85	0.06	0.06	0.07	0.06	0.06	0.07	0.07	0.06	0.06	0.07	0.07	0.05	0.06	0.06	0.06	0.07	0.06	0.05	0.06
90	0.07	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	285	300	315	330	345														
0	5784	5770	5758	5746	5734														
5	5307	5305	5284	5283	5269														
10	3960	3976	3960	3982	3968														
15	2205	2206	2187	2210	2205														
20	909	904	890	902	902														
25	352	352	338	348	342														
30	159	159	151	155	153														
35	83.3	82.6	78.5	79.6	78.1														
40	48.4	46.7	45.6	44.8	45.5														
45	29.1	28.5	28.1	28.2	28.9														
50	15.8	15.4	14.9	14.4	14.2														
55	10.1	9.89	9.67	9.32	9.27														
60	5.25	5.16	5.07	4.89	4.87														
65	2.01	1.99	1.98	1.93	1.88														
70	0.15	0.15	0.15	0.15	0.16														
75	0.10	0.10	0.10	0.10	0.09														
80	0.07	0.07	0.07	0.07	0.07														
85	0.06	0.06	0.06	0.07	0.06														
90	0.06	0.06	0.06	0.06	0.06														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2024-10-18

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks: