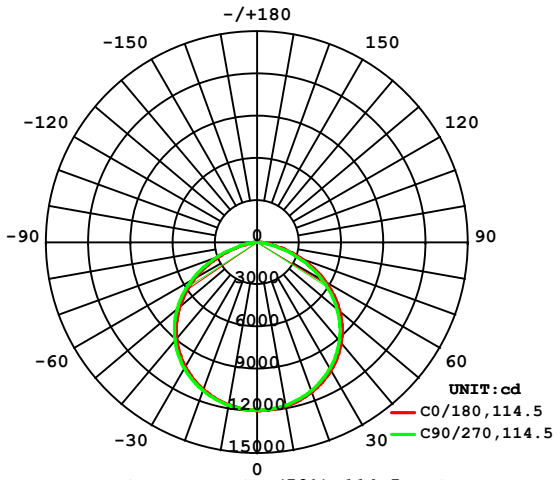
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ILUMIA	SUR.:	Shielding Angle:

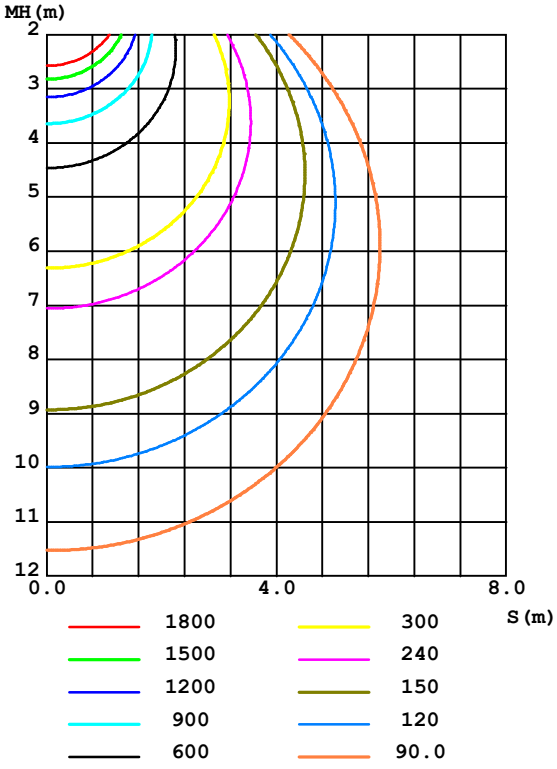
DATA OF LAMP		PHOTOMETRIC DATA Eff: 172.37 lm/W			
MODEL		Imax(cd)	11961	S/MH(C0/180)	1.27
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	34025	η UP,DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	34025.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):114.5 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Wangzhilie
Test Date:2024-01-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1183	1177	1173	1176					0- 10	1132	1132	3.33,3.33
20	1135	1125	1115	1123					10- 20	3262	4394	12.9,12.9
30	1052	1038	1023	1036					20- 30	5004	9399	27.6,27.6
40	932.3	912.4	892.0	910.1					30- 40	6125	15524	45.6,45.6
50	770.9	745.7	719.7	743.6					40- 50	6425	21949	64.5,64.5
60	565.8	537.1	506.7	535.3					50- 60	5757	27706	81.4,81.4
70	329.6	299.8	269.4	297.9					60- 70	4138	31844	93.6,93.6
80	102.1	80.44	55.36	76.36					70- 80	1920	33763	99.2,99.2
90	0	0	0	0					80- 90	262.0	34025	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18758 lm

%lum = 55.1%
%lamp = 55.1%

Conical surface Flux(120deg): 27706 lm

%lum = 81.4%
%lamp = 81.4%

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Operators:Wangzhilie
Test Date:2024-01-19

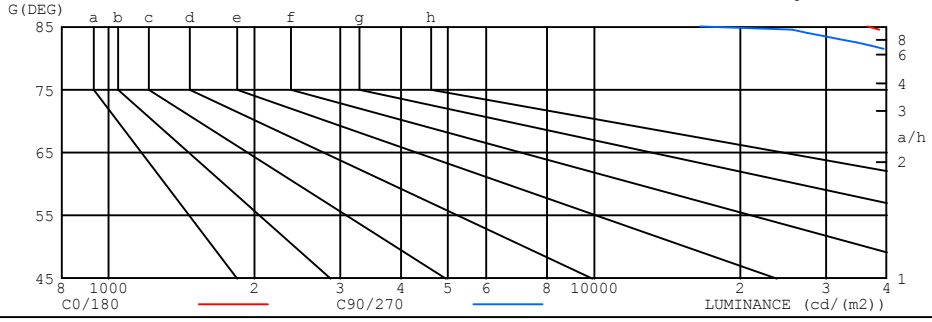
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:**
MFR.: EVERFINE	**SUR.:**	**Shielding Angle:**

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	36595	16534
80	58776	46324
75	81066	69478
70	96360	87664
65	106459	99329
60	113151	107420
55	117388	112659
50	119930	116008
45	121238	118027

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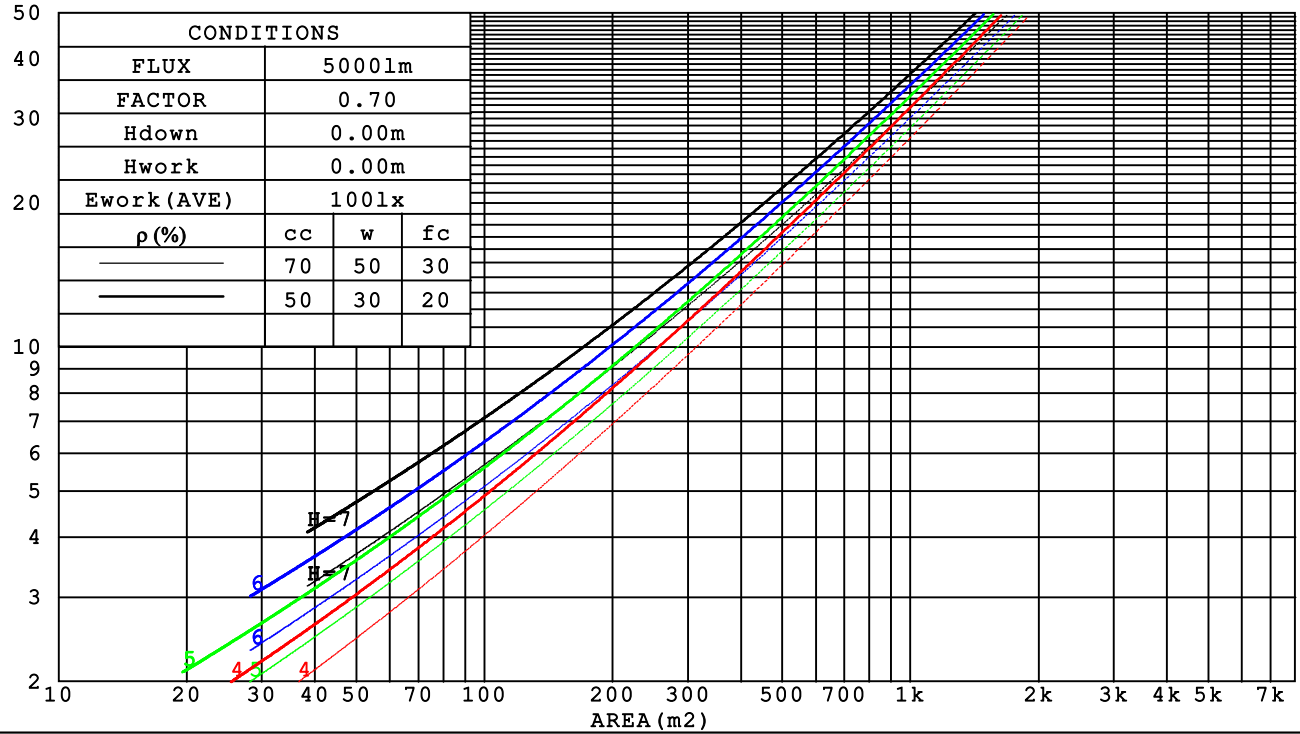
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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			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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.79	.90	.84	.78	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.80	.72	.66	.79	.71	.65	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.38	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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WEC AND CCEC

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NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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	.292	.166	.053	.285	.163	.052	.272	.156	.050	.260	.150	.048	.248	.144	.046	
2.0	.281	.154	.047	.275	.151	.047	.263	.146	.045	.252	.142	.044	.242	.137	.043	
3.0	.263	.140	.042	.257	.138	.041	.247	.134	.041	.238	.130	.040	.229	.127	.039	
4.0	.244	.127	.037	.240	.125	.037	.230	.122	.036	.222	.119	.036	.214	.116	.035	
5.0	.227	.116	.034	.223	.114	.033	.215	.112	.033	.207	.109	.032	.200	.107	.032	
6.0	.211	.106	.030	.207	.105	.030	.200	.103	.030	.193	.101	.030	.187	.099	.029	
7.0	.197	.097	.028	.194	.096	.027	.187	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.111	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Wangzhilie
Test Date:2024-01-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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	29.6	31.1	29.9	31.3	31.5	29.4	30.9	29.7	31.1	31.4
	3H	31.0	32.4	31.3	32.6	32.9	30.7	32.1	31.0	32.4	32.6
	4H	31.5	32.8	31.8	33.0	33.3	31.1	32.4	31.4	32.7	32.9
	6H	31.7	32.9	32.0	33.2	33.5	31.3	32.5	31.6	32.8	33.1
	8H	31.7	32.9	32.1	33.2	33.5	31.3	32.5	31.6	32.8	33.1
	12H	31.7	32.9	32.1	33.2	33.5	31.3	32.4	31.6	32.7	33.0
4H	2H	30.2	31.5	30.5	31.7	32.0	30.0	31.4	30.3	31.6	31.9
	3H	31.7	32.9	32.1	33.2	33.5	31.5	32.6	31.8	32.9	33.2
	4H	32.3	33.3	32.7	33.6	34.0	32.0	33.0	32.3	33.3	33.7
	6H	32.6	33.5	33.0	33.9	34.2	32.2	33.1	32.6	33.5	33.8
	8H	32.6	33.5	33.1	33.9	34.3	32.2	33.1	32.6	33.5	33.8
	12H	32.7	33.5	33.1	33.8	34.2	32.2	33.0	32.6	33.4	33.8
8H	4H	32.4	33.3	32.8	33.7	34.0	32.1	33.0	32.6	33.4	33.8
	6H	32.8	33.5	33.3	33.9	34.4	32.5	33.2	32.9	33.6	34.0
	8H	32.9	33.6	33.4	34.0	34.4	32.5	33.2	33.0	33.6	34.0
	12H	33.0	33.5	33.5	34.0	34.4	32.5	33.1	33.0	33.5	34.0
12H	4H	32.4	33.2	32.8	33.6	34.0	32.1	32.9	32.6	33.3	33.7
	6H	32.8	33.4	33.3	33.9	34.3	32.5	33.1	32.9	33.5	34.0
	8H	32.9	33.5	33.4	33.9	34.4	32.6	33.1	33.0	33.5	34.0
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H		+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 34025 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.3)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
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Temperature:25.3DEG
Operators:Wangzhilie
Test Date:2024-01-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding 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) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	76	65	58	73	67	58	51
1.25	84	74	67	83	73	66	80	72	66	58
1.50	89	79	73	87	79	72	84	77	71	64
2.00	96	88	81	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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Remarks:

ISOCANDELA DIAGRAM

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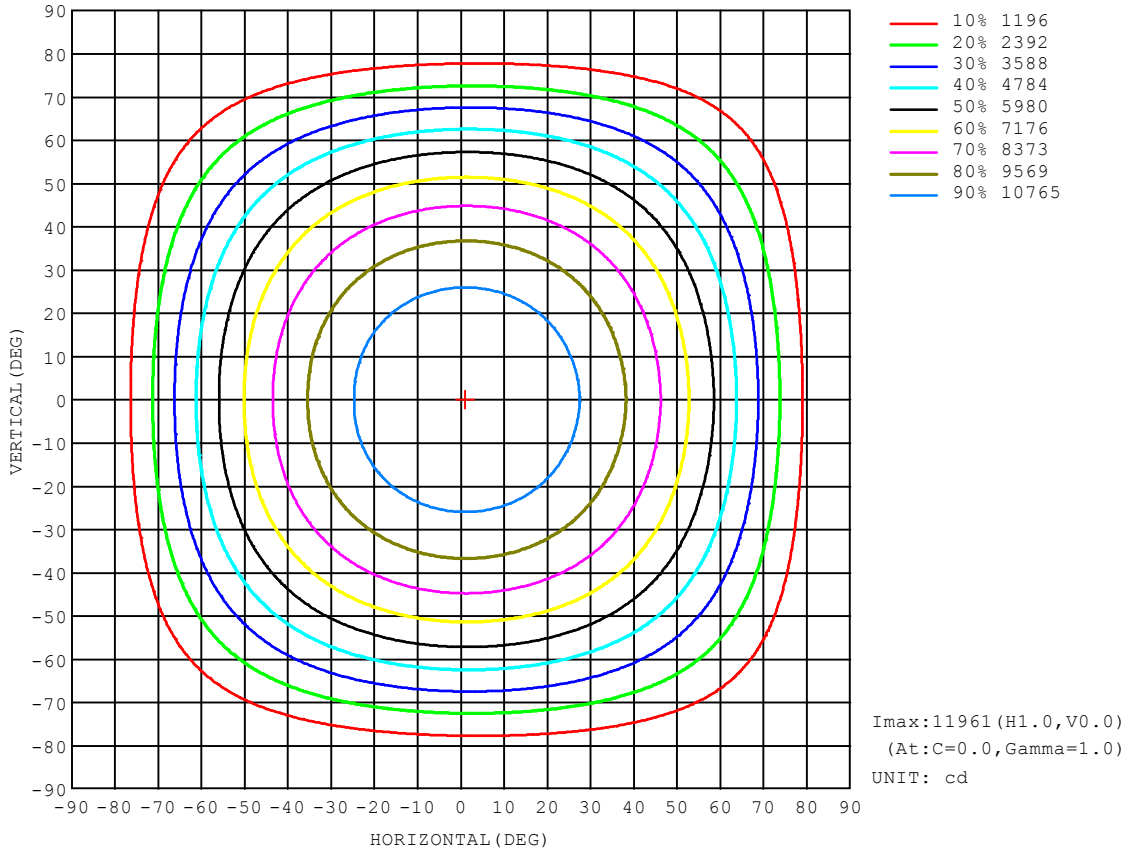

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AAI Figure

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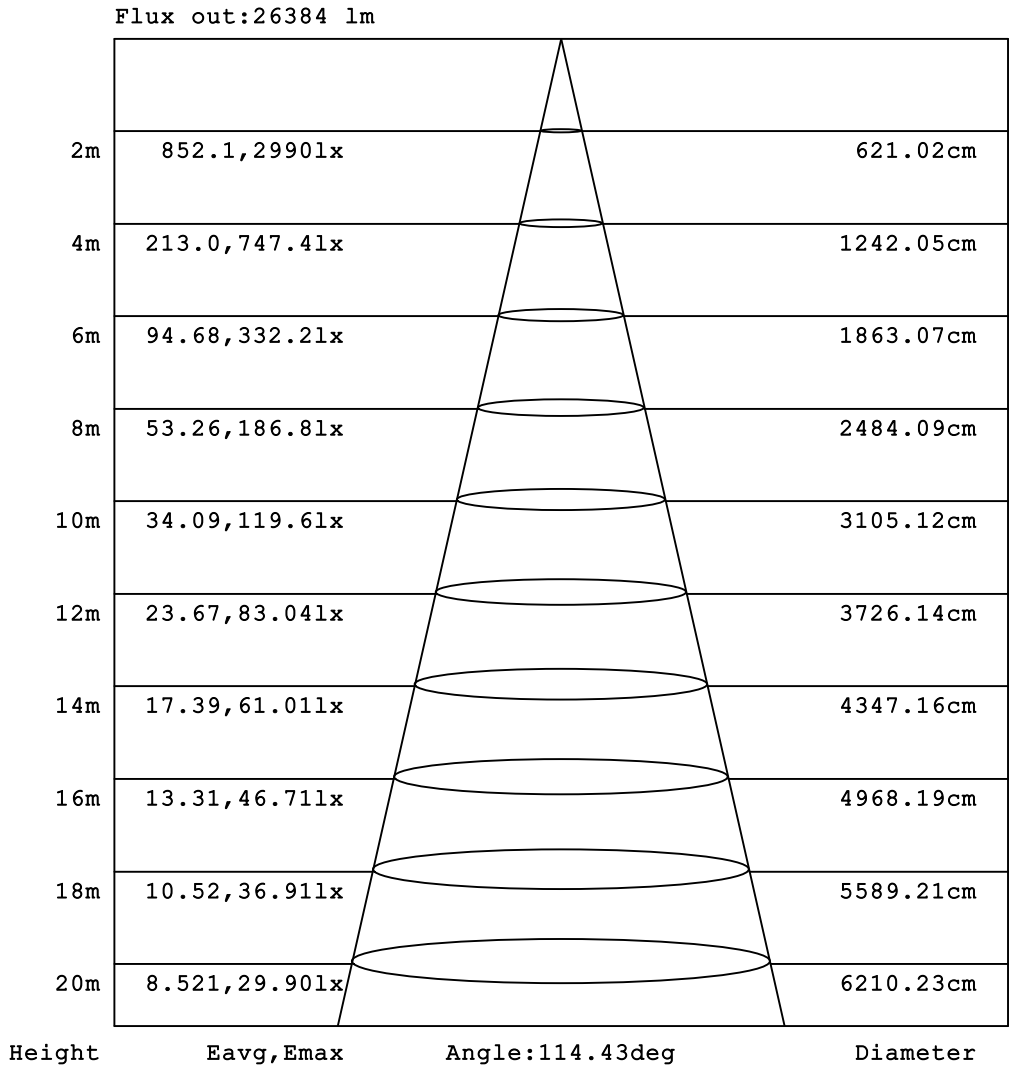

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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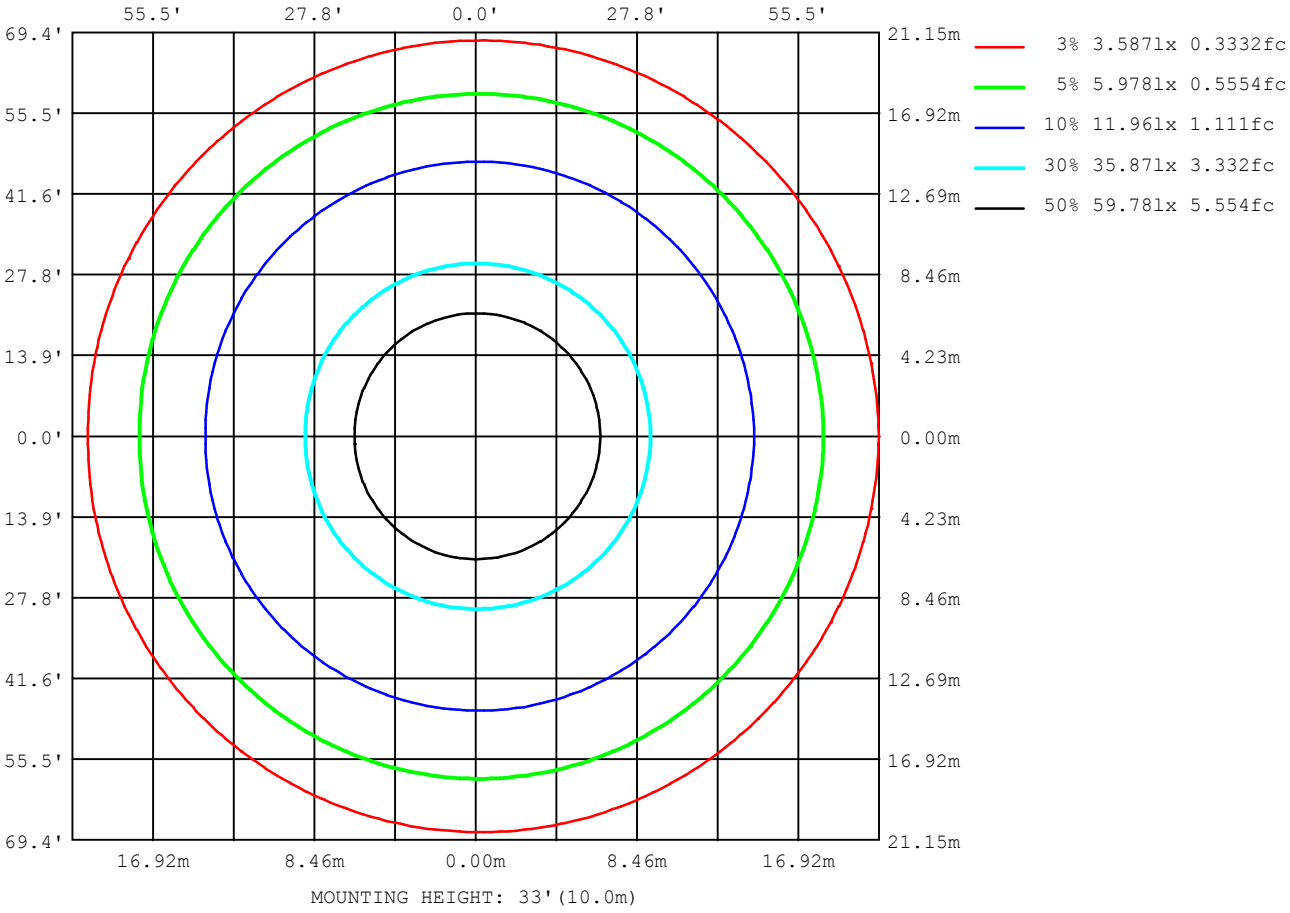
ISOLUX DIAGRAM

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:**
MFR.: EVERFINE	**SUR.:**	**Shielding Angle:**



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Humidity:65.0%
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Remarks:

LED Avg.L Report

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

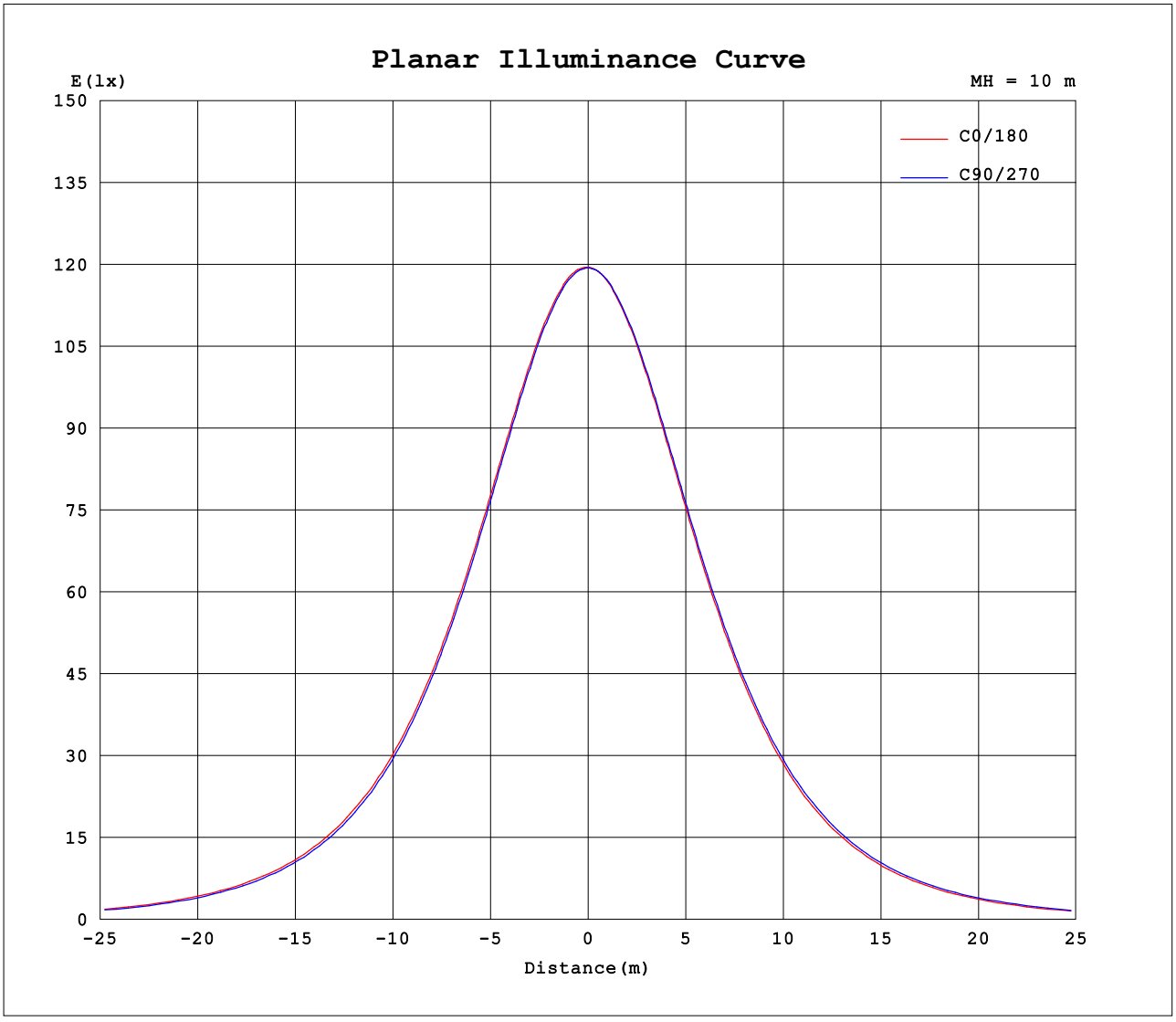
AvgL	cd/m2
L_0~180(65)av	99100
L_0~180(75)av	69148
L_0~180(85)av	18298
L_90~270(65)av	99138
L_90~270(75)av	68889
L_90~270(85)av	16438
L_45(65)av	98664
L_45(75)av	68241
L_45(85)av	15992

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Wangzhilie
Test Date:2024-01-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Wangzhilie
Test Date:2024-01-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.90V I:1.6500A P:197.40W PF:0.9980 Freq:50.00Hz Lamp Flux:34025.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1 UNIT: ×10cd

γ (DEG) \ C(DEG)	0	90	180	270															
0	1196	1194	1196	1194															
5	1194	1190	1189	1190															
10	1183	1177	1173	1176															
15	1163	1155	1148	1154															
20	1135	1125	1115	1123															
25	1098	1086	1074	1084															
30	1052	1038	1023	1036															
35	997	980	962	977															
40	932	912	892	910															
45	857	835	811	832															
50	771	746	720	744															
55	673	646	618	644															
60	566	537	507	535															
65	450	420	388	418															
70	330	300	269	298															
75	210	180	148	177															
80	102	80.4	55.4	76.4															
85	31.9	14.4	0.00	14.2															
90	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Wangzhilie
Test Date:2024-01-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.435m [K=1.0000]
Remarks: