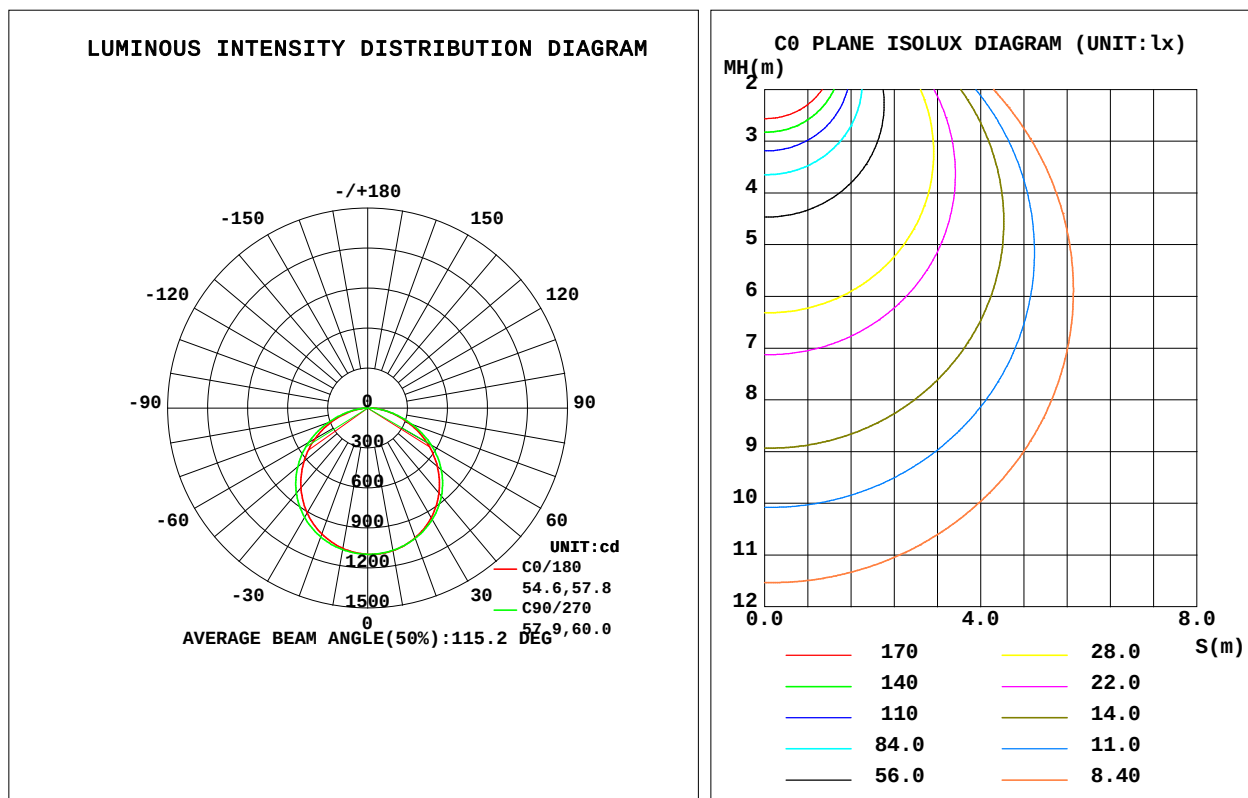


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295mm	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.34 lm/W			
MODEL	--	I _{max} (cd)	1098	S/MH(C0/180)	1.24
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	3240.3	η UP, DN(C0-180)	0.0,51.9
NOMINAL FLUX(lm)	3240.19	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	ϕ zone	ϕ total	%lum, lamp
10	1087	1084	1070	1079					0- 10	103.9	103.9	3.21, 3.21
20	1038	1041	1006	1030					10- 20	298.8	402.8	12.4, 12.4
30	952.6	967.2	908.7	947.6					20- 30	456.5	859.2	26.5, 26.5
40	832.8	861.6	779.7	833.2					30- 40	556.1	1415	43.7, 43.7
50	683.3	722.2	625.6	685.8					40- 50	583.1	1998	61.7, 61.7
60	510.3	549.4	453.5	508.8					50- 60	531.2	2530	78.1, 78.1
70	325.4	352.4	273.2	311.6					60- 70	406.5	2936	90.6, 90.6
80	150.6	159.4	104.6	122.7					70- 80	234.9	3171	97.9, 97.9
90	26.52	21.99	2.880	1.130					80- 90	69.31	3240	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): 1708.4 lm

%lum = 52.7%

%lamp = 52.7%

Conical surface Flux(120deg): 2529.6 lm

%lum = 78.1%

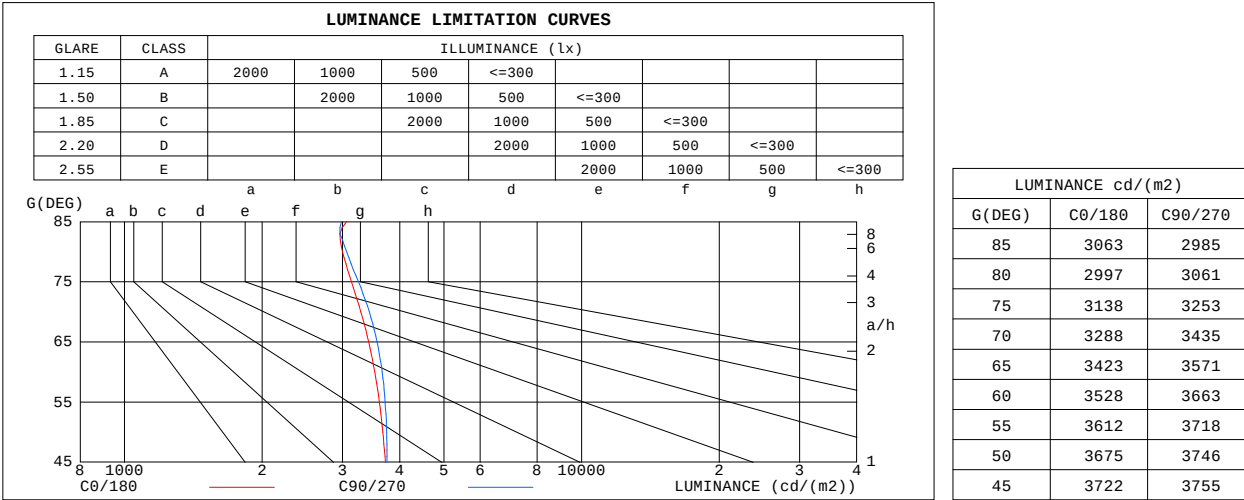
%lamp = 78.1%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 6.790m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295m	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255m	Shielding Angle:



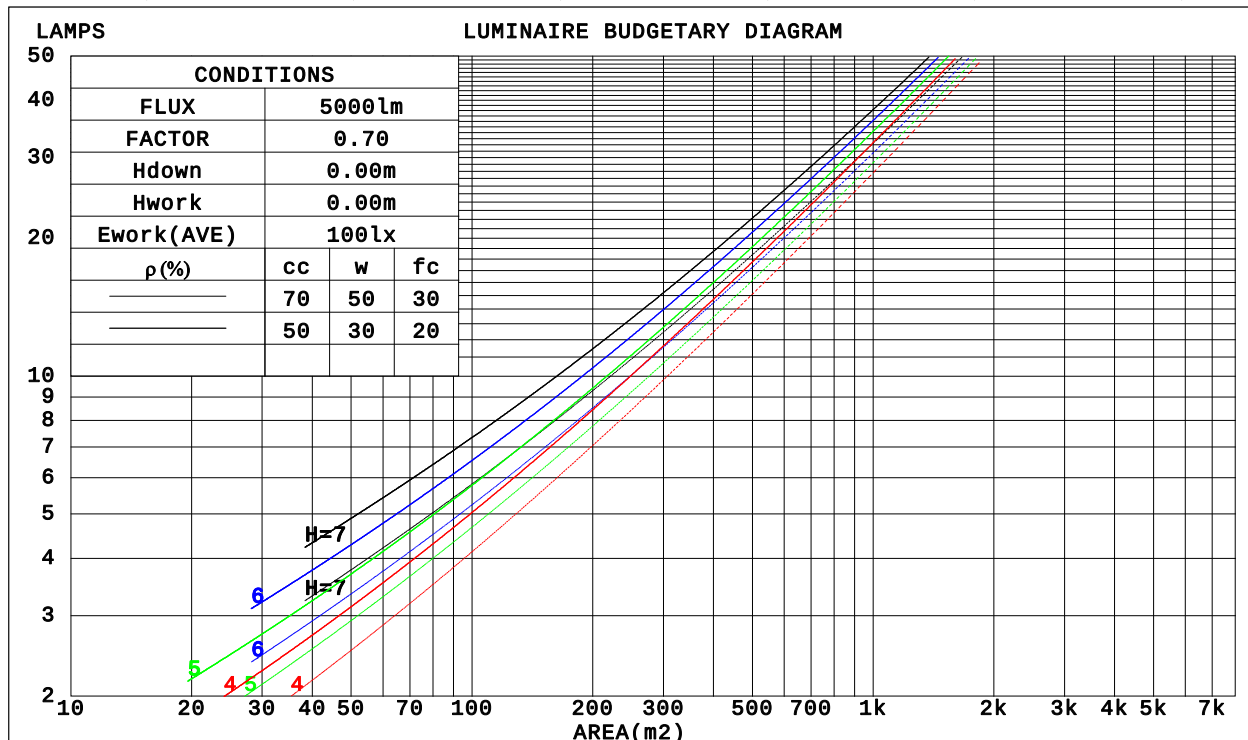
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295mm	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255mm	Shielding 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	1.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm					
NAME:			TYPE:		WEIGHT:
SPEC.:LPB3012-WHTC40-3000K			DIM.: 1195*295mm		SERIAL No.:
MFR.: EVERFINE			SUR.:1155*255mm		Shielding 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	.315	.179	.057	.308	.176	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051		
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.267	.150	.047	.257	.145	.046		
3.0	.273	.145	.043	.267	.143	.043	.257	.139	.042	.247	.136	.042	.238	.132	.041		
4.0	.251	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.110	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.103	.030	.191	.101	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.173	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:6.790m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:LPB3012-WHTC40-3000K					DIM.: 1195*295m			SERIAL No.:			
MFR.: EVERFINE					SUR.:1155*255m			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	13.4	15.0	13.7	15.2	15.4	13.5	15.1	13.8	15.3	15.5	
	3H	15.0	16.4	15.3	16.7	16.9	15.2	16.6	15.5	16.8	17.1
	4H	15.7	17.0	16.0	17.3	17.5	15.8	17.2	16.1	17.4	17.7
	6H	16.2	17.4	16.5	17.7	18.0	16.3	17.6	16.7	17.9	18.2
	8H	16.4	17.6	16.7	17.9	18.2	16.5	17.7	16.9	18.0	18.3
	12H	16.5	17.7	16.9	18.0	18.3	16.6	17.8	17.0	18.1	18.4
4H	2H	14.1	15.4	14.4	15.7	15.9	14.2	15.5	14.5	15.8	16.0
	3H	15.8	17.0	16.2	17.3	17.6	16.0	17.2	16.3	17.5	17.8
	4H	16.6	17.7	17.0	18.0	18.4	16.8	17.9	17.1	18.2	18.5
	6H	17.3	18.2	17.7	18.6	19.0	17.4	18.4	17.8	18.7	19.1
	8H	17.5	18.4	17.9	18.8	19.2	17.7	18.6	18.1	18.9	19.3
	12H	17.7	18.6	18.2	18.9	19.3	17.8	18.7	18.3	19.1	19.5
8H	4H	16.9	17.8	17.4	18.2	18.6	17.1	18.0	17.5	18.3	18.7
	6H	17.8	18.5	18.2	18.9	19.3	17.9	18.6	18.3	19.0	19.5
	8H	18.1	18.8	18.6	19.2	19.6	18.2	18.9	18.7	19.3	19.8
	12H	18.4	19.0	18.9	19.4	19.9	18.5	19.1	19.0	19.5	20.0
12H	4H	17.0	17.8	17.4	18.2	18.6	17.1	17.9	17.5	18.3	18.7
	6H	17.8	18.5	18.3	18.9	19.4	17.9	18.6	18.4	19.0	19.5
	8H	18.2	18.8	18.7	19.2	19.7	18.3	18.9	18.8	19.4	19.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117, 3240 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.1)
Area: 0.294525 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295m	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255m	Shielding Angle:

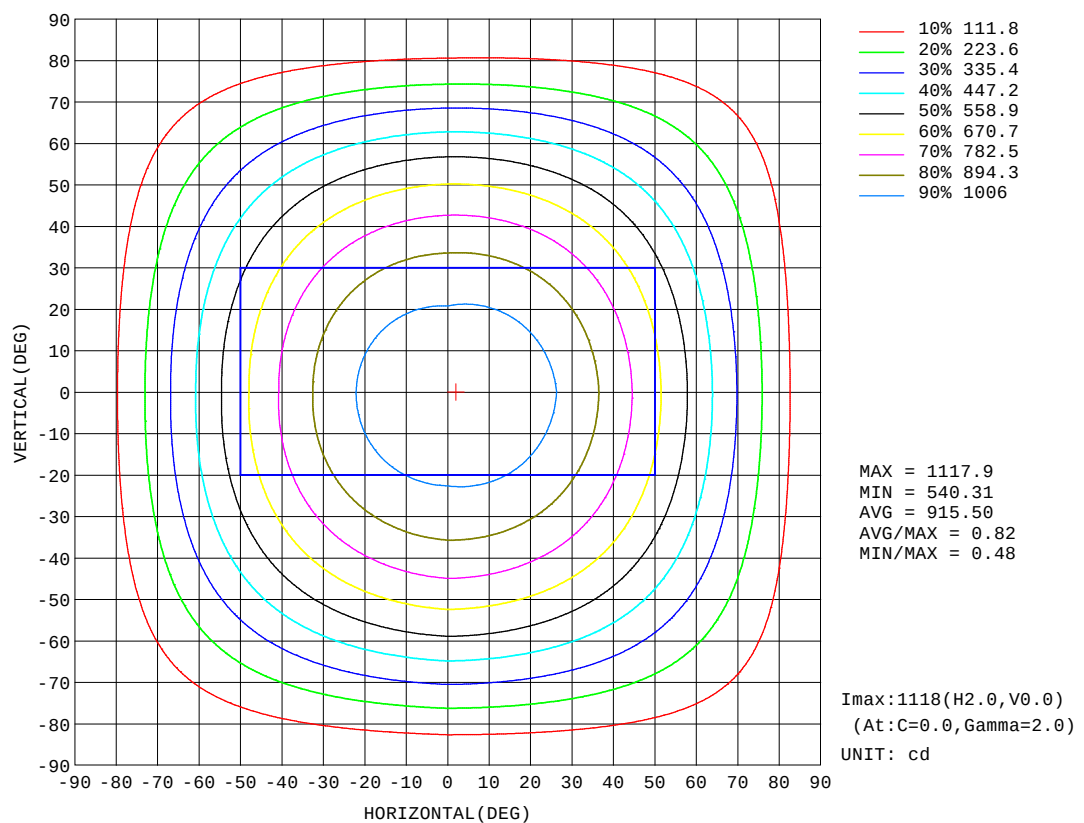
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:6.790m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295mm	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255mm	Shielding Angle:



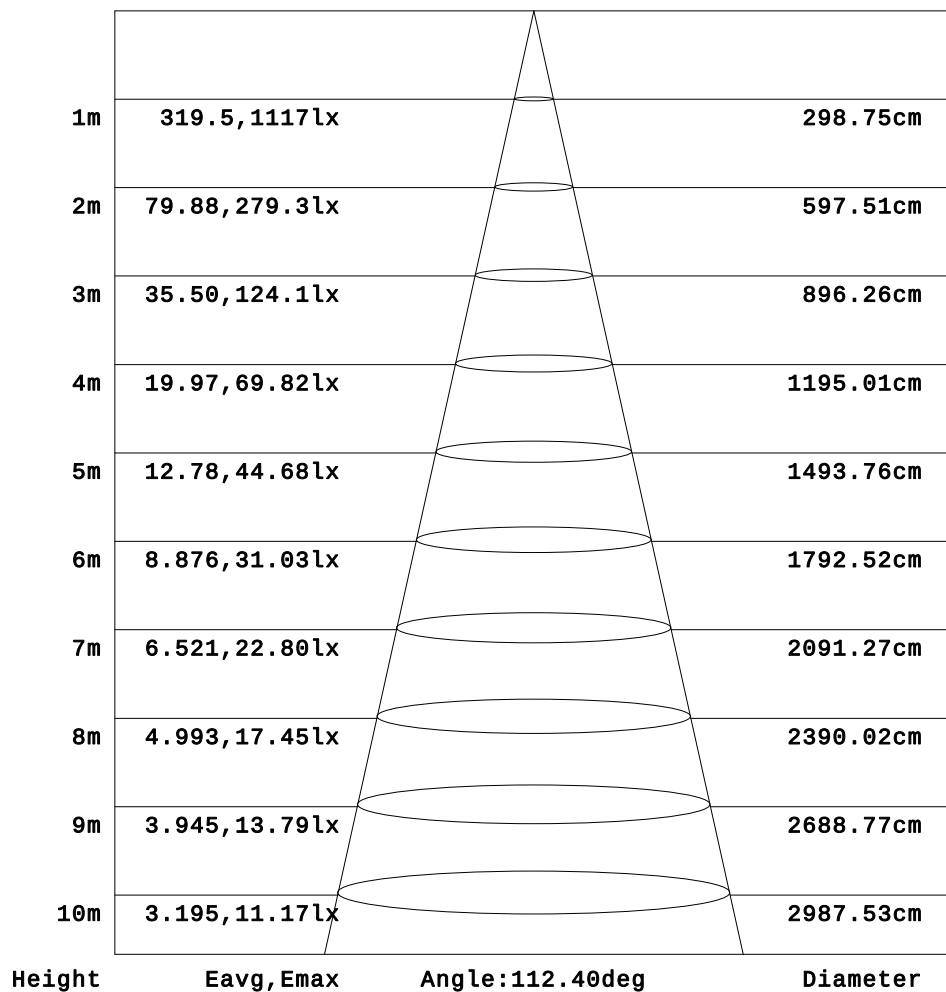
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295mm	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255mm	Shielding Angle:

Flux out:2380 lm



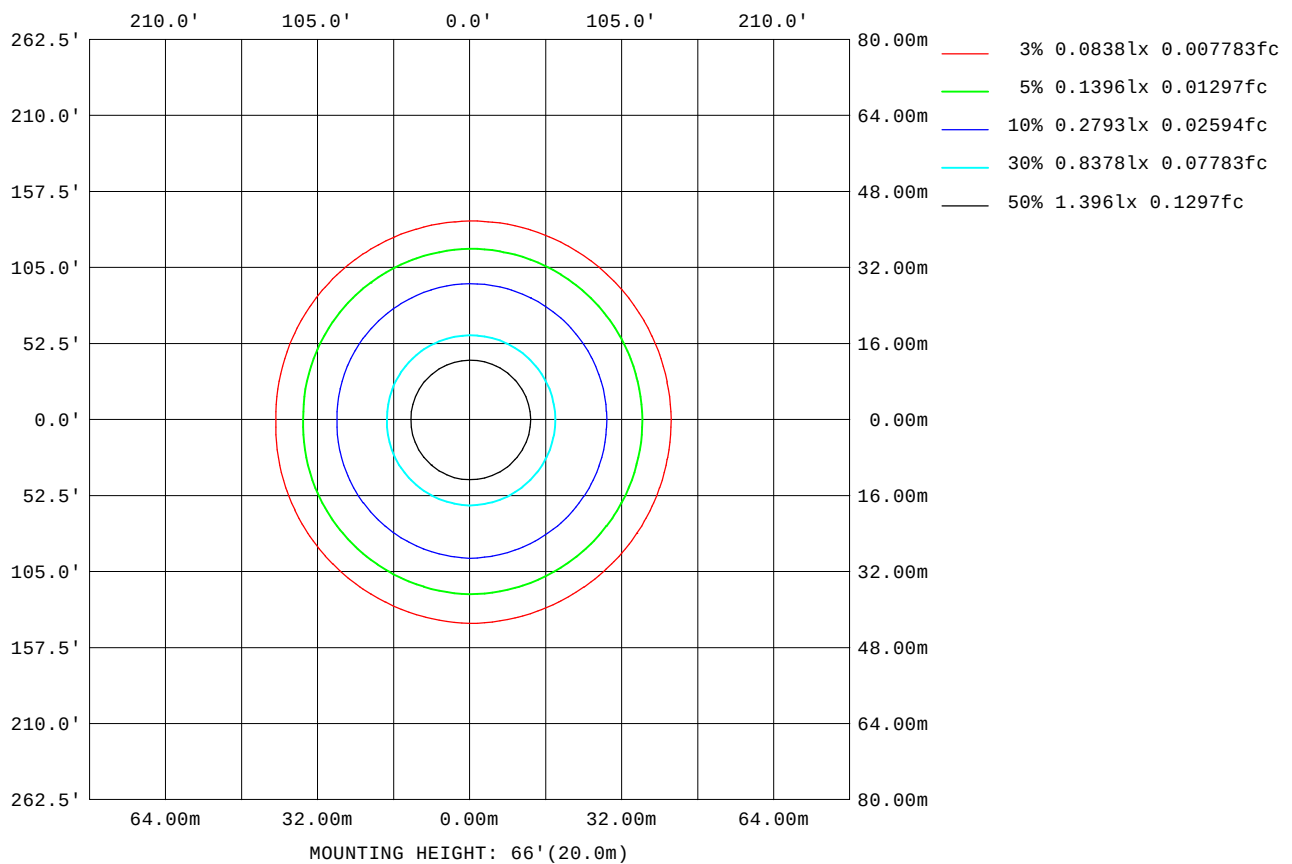
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:6.790m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295m	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:221.43V I:0.1752A P:37.970W PF:0.9786 Freq:0Hz Lamp Flux:3240.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:LPB3012-WHTC40-3000K	DIM.: 1195*295mm	SERIAL No.:
MFR.: EVERFINE	SUR.:1155*255mm	Shielding Angle:

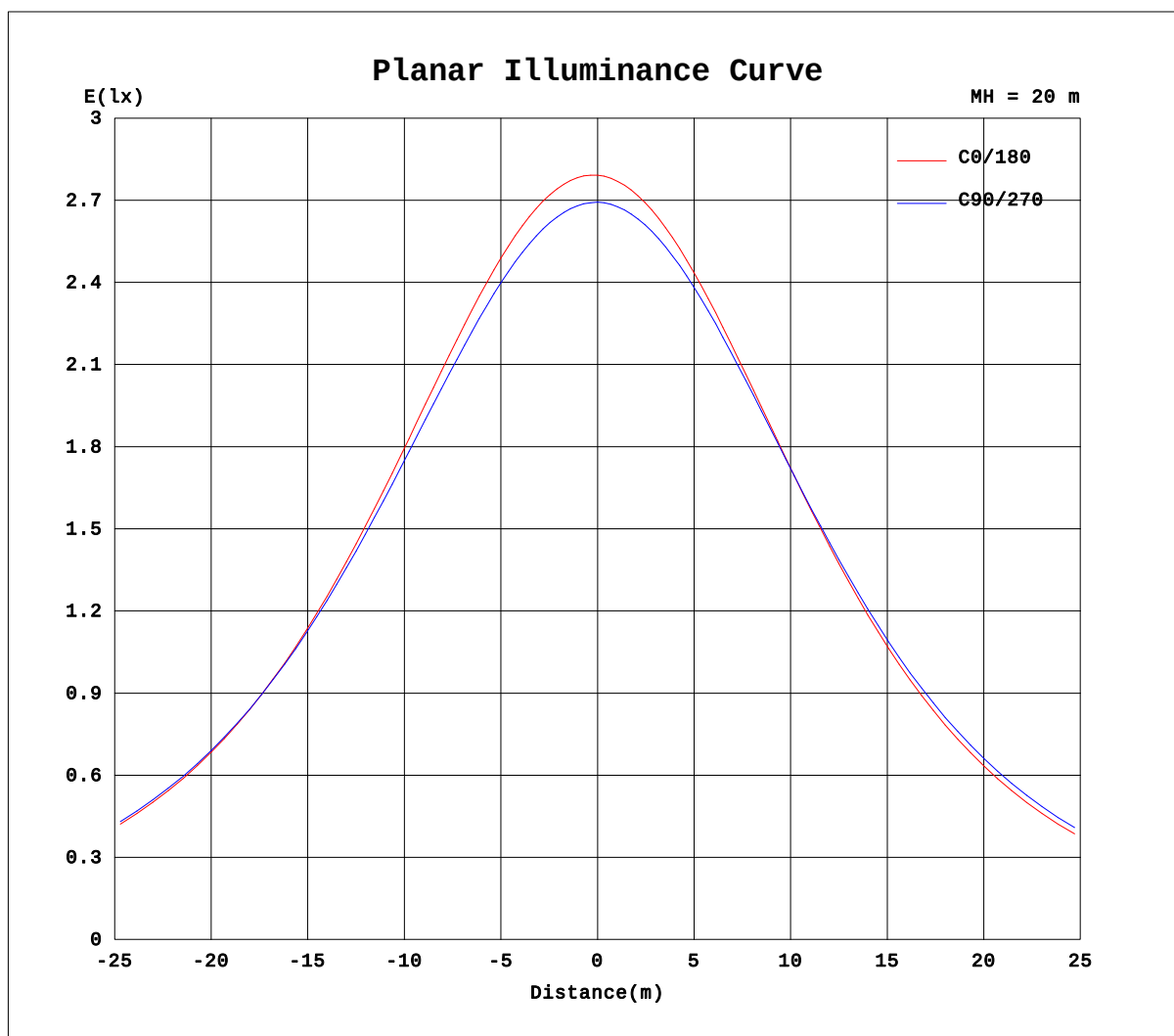
AvgL	cd/m2
L_0~180(65)av	3141
L_0~180(75)av	2763
L_0~180(85)av	2225
L_90~270(65)av	3470
L_90~270(75)av	3057
L_90~270(85)av	2382
L_45(65)av	3331
L_45(75)av	2925
L_45(85)av	2274

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:1
Test Date:2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 1
Test Date: 2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 6.790m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:6.790m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	1097	1097	1097	1097
3.0	1098	1096	1093	1095
6.0	1095	1093	1085	1090
9.0	1089	1087	1074	1083
12.0	1080	1078	1060	1072
15.0	1067	1067	1042	1059
18.0	1051	1052	1022	1042
21.0	1031	1035	997.8	1023
24.0	1008	1015	971.1	1001
27.0	982.0	992.6	941.1	975.8
30.0	952.6	967.2	908.7	947.6
33.0	920.1	938.9	873.0	916.5
36.0	884.5	907.7	834.6	882.8
39.0	846.3	873.7	793.9	845.6
42.0	805.2	836.6	750.8	805.6
45.0	761.5	796.3	705.5	763.3
48.0	715.4	752.8	658.2	717.8
51.0	667.1	706.3	609.4	669.4
54.0	616.8	656.6	558.7	618.5
57.0	564.2	604.5	506.5	564.7
60.0	510.3	549.4	453.5	508.8
63.0	455.7	491.8	399.4	450.6
66.0	399.8	433.0	345.3	391.7
69.0	344.1	372.1	291.2	331.5
72.0	288.9	311.8	237.7	272.1
75.0	234.9	252.5	186.3	213.5
78.0	183.5	195.4	137.1	157.7
81.0	134.8	142.1	89.63	106.1
84.0	90.56	92.75	49.24	59.10
87.0	51.88	51.12	17.96	17.99
90.0	26.52	21.99	2.880	1.130

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 1
 Test Date: 2023-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 6.790m [K=1.0000]
 Remarks: