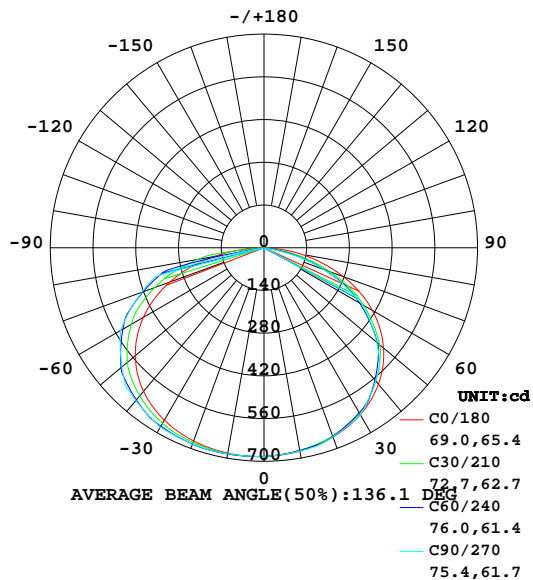


LUMINAIRE PHOTOMETRIC TEST REPORT

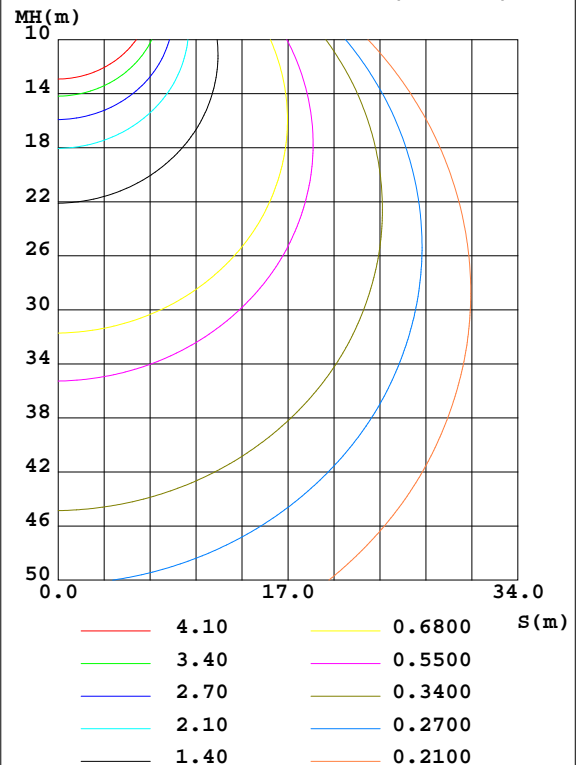
Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.24 lm/W			
MODEL	33.1212	Imax(cd)	687.6	S/MH(C0/180)	1.43
NOMINAL POWER(W)	44.9065	LOR(%)	109.2	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	2480.8	η UP,DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	2271.46	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,59.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	109.2	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [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
5	681.3	679.6	680.3	682.0	684.7	685.4	684.9	682.9	0- 5	16.33	16.33	0.66,0.72
10	676.8	674.2	676.5	678.9	683.3	685.8	685.8	680.9	5- 10	48.75	65.08	2.62,2.87
15	670.0	667.5	672.7	674.4	679.8	685.0	686.7	677.9	10- 15	80.48	145.6	5.87,6.41
20	660.5	659.1	659.4	668.4	673.8	683.1	684.1	673.7	15- 20	111.0	256.5	10.3,11.3
25	647.8	642.4	646.0	654.4	665.1	677.4	681.5	665.3	20- 25	139.4	395.9	16,17.4
30	631.6	622.3	632.7	637.4	652.5	669.7	679.0	654.5	25- 30	165.4	561.4	22.6,24.7
35	610.2	599.9	601.0	618.0	635.8	660.1	666.2	641.9	30- 35	188.1	749.5	30.2,33
40	583.4	572.7	569.3	593.8	614.0	646.9	653.3	625.9	35- 40	206.1	955.5	38.5,42.1
45	550.9	529.7	537.6	554.8	586.0	623.7	640.5	598.8	40- 45	219.1	1175	47.3,51.7
50	511.3	483.7	482.0	512.6	550.7	597.9	607.9	568.9	45- 50	226.1	1401	56.5,61.7
55	464.4	434.3	426.4	466.2	507.6	568.9	575.2	536.1	50- 55	225.2	1626	65.5,71.6
60	409.9	365.1	370.8	399.7	456.4	519.8	542.5	484.6	55- 60	217.1	1843	74.3,81.1
65	347.6	294.5	289.1	332.2	396.5	468.8	484.4	431.9	60- 65	200.9	2044	82.4,90
70	276.4	218.0	207.5	255.7	327.6	407.6	426.3	368.7	65- 70	175.3	2219	89.5,97.7
75	200.9	136.3	125.8	168.9	250.5	334.3	368.2	293.8	70- 75	142.4	2362	95.2,104
80	124.9	54.03	0	75.89	164.0	217.3	0	184.7	75- 80	91.11	2453	98.9,108
85	45.75	0	0	0	75.17	0	0	0	80- 85	25.53	2478	99.9,109
90	1.317	0	0	0	9.534	0	0	0	85- 90	2.488	2481	100,109
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

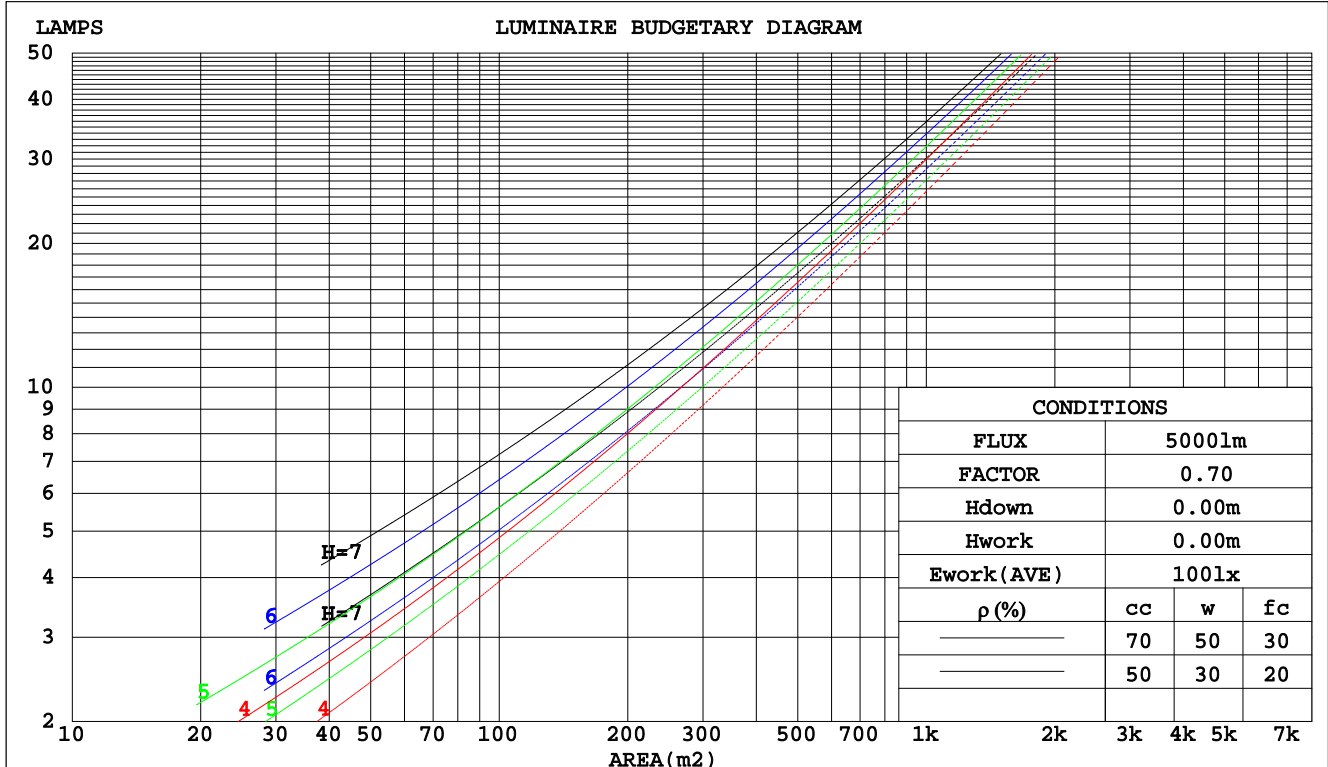
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity:65.0%
 Test Distance:5.640m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.30	1.30	1.30	1.27	1.27	1.27	1.21	1.21	1.21	1.16	1.16	1.16	1.11	1.11	1.11	1.09
1.0	1.13	1.08	1.03	1.10	1.06	1.01	1.05	1.02	.98	1.01	.98	.95	.97	.95	.92	.90
2.0	.97	.89	.82	.95	.87	.81	.91	.85	.79	.87	.82	.77	.84	.79	.76	.73
3.0	.84	.74	.67	.82	.73	.66	.79	.71	.65	.76	.69	.64	.73	.67	.63	.60
4.0	.74	.63	.56	.72	.63	.55	.69	.61	.54	.67	.60	.54	.64	.58	.53	.50
5.0	.65	.55	.47	.64	.54	.47	.62	.53	.46	.59	.52	.46	.57	.51	.45	.43
6.0	.58	.48	.41	.57	.48	.41	.55	.47	.40	.53	.46	.40	.52	.45	.39	.37
7.0	.53	.43	.36	.52	.42	.35	.50	.41	.35	.48	.41	.35	.47	.40	.35	.32
8.0	.48	.38	.31	.47	.38	.31	.46	.37	.31	.44	.36	.31	.43	.36	.31	.28
9.0	.44	.34	.28	.43	.34	.28	.42	.34	.28	.41	.33	.28	.39	.32	.27	.25
10.0	.40	.31	.25	.40	.31	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.355	.202	.064	.348	.198	.063	.333	.191	.061	.320	.184	.059	.307	.178	.057		
2.0	.338	.185	.057	.331	.182	.056	.318	.177	.055	.306	.172	.054	.295	.167	.053		
3.0	.312	.166	.050	.306	.164	.049	.294	.160	.048	.284	.155	.048	.274	.152	.047		
4.0	.287	.149	.044	.281	.147	.044	.271	.144	.043	.262	.141	.042	.253	.137	.042		
5.0	.264	.135	.039	.259	.133	.039	.250	.130	.038	.242	.128	.038	.234	.125	.038		
6.0	.244	.122	.035	.240	.121	.035	.232	.119	.035	.224	.116	.034	.217	.114	.034		
7.0	.226	.112	.032	.222	.111	.032	.215	.109	.031	.208	.107	.031	.202	.105	.031		
8.0	.211	.103	.029	.207	.102	.029	.201	.100	.029	.195	.099	.028	.189	.097	.028		
9.0	.197	.095	.027	.194	.094	.026	.188	.093	.026	.182	.091	.026	.177	.090	.026		
10.0	.185	.088	.025	.182	.088	.024	.177	.087	.024	.172	.085	.024	.167	.084	.024		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022		
1.0	.198	.170	.145	.169	.146	.125	.116	.101	.087	.067	.058	.050	.021	.019	.016		
2.0	.191	.144	.105	.163	.124	.091	.112	.086	.063	.065	.050	.037	.021	.016	.012		
3.0	.183	.125	.079	.157	.108	.068	.108	.075	.048	.062	.044	.028	.020	.014	.009		
4.0	.175	.111	.061	.150	.096	.053	.103	.067	.038	.060	.039	.022	.019	.013	.007		
5.0	.167	.099	.050	.143	.086	.043	.099	.060	.031	.057	.035	.018	.018	.012	.006		
6.0	.159	.090	.041	.137	.078	.036	.094	.055	.025	.055	.032	.015	.018	.011	.005		
7.0	.151	.083	.035	.130	.072	.031	.090	.050	.022	.052	.030	.013	.017	.010	.004		
8.0	.144	.077	.030	.124	.066	.026	.086	.047	.019	.050	.028	.011	.016	.009	.004		
9.0	.137	.071	.027	.118	.062	.023	.082	.043	.017	.048	.026	.010	.015	.008	.003		
10.0	.131	.067	.024	.113	.058	.021	.078	.041	.015	.046	.024	.009	.015	.008	.003		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm										
NAME: LP-24-48x24-SP					TYPE:Basic LightPanel			WEIGHT:		
SPEC.:FLS-1W4-6000K					DIM.: 48*24			SERIAL No.:01		
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	12.6	14.2	12.9	14.4	14.6	12.2	13.8	12.5	14.0	14.2
3H	14.3	15.8	14.6	16.1	16.3	13.6	15.1	13.9	15.3	15.5
4H	15.0	16.5	15.4	16.7	17.0	14.0	15.4	14.3	15.6	15.9
6H	15.6	16.9	15.9	17.2	17.5	14.0	15.3	14.3	15.6	15.9
8H	15.7	17.0	16.1	17.3	17.6	13.9	15.2	14.3	15.5	15.8
12H	15.8	17.0	16.2	17.3	17.7	13.9	15.1	14.2	15.4	15.7
4H 2H	13.1	14.6	13.5	14.8	15.1	12.8	14.3	13.2	14.5	14.8
3H	15.0	16.3	15.4	16.6	16.9	14.4	15.6	14.7	15.9	16.2
4H	15.8	16.9	16.2	17.3	17.6	14.8	16.0	15.2	16.3	16.6
6H	16.4	17.4	16.8	17.8	18.2	14.9	15.9	15.3	16.2	16.6
8H	16.6	17.6	17.0	17.9	18.3	14.8	15.8	15.2	16.1	16.5
12H	16.7	17.6	17.2	18.0	18.4	14.8	15.7	15.2	16.0	16.4
8H 4H	15.9	16.9	16.4	17.2	17.6	15.1	16.0	15.5	16.4	16.7
6H	16.6	17.4	17.1	17.8	18.3	15.1	15.9	15.6	16.3	16.7
8H	16.9	17.6	17.3	18.0	18.4	15.1	15.8	15.6	16.2	16.7
12H	17.0	17.6	17.5	18.0	18.5	15.1	15.7	15.5	16.1	16.6
12H 4H	15.9	16.8	16.3	17.2	17.6	15.0	15.9	15.5	16.3	16.7
6H	16.6	17.3	17.1	17.7	18.2	15.1	15.8	15.6	16.3	16.7
8H	16.9	17.5	17.3	17.9	18.4	15.1	15.7	15.6	16.1	16.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 2271 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.9)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
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	59	46	38	58	45	38	57	45	37	30
0.80	70	57	48	69	56	48	67	55	47	39
1.00	79	67	58	78	66	58	76	68	57	49
1.25	88	75	67	86	74	66	83	73	66	57
1.50	93	82	73	91	81	73	88	79	72	63
2.00	101	91	84	99	90	83	95	88	81	72
2.50	106	97	90	104	96	89	100	93	87	78
3.00	110	102	96	108	101	95	103	97	92	83
4.00	115	108	103	112	107	102	108	103	99	89
5.00	118	112	108	115	110	106	110	106	103	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

1174.7 lm

%lum = 47.3%

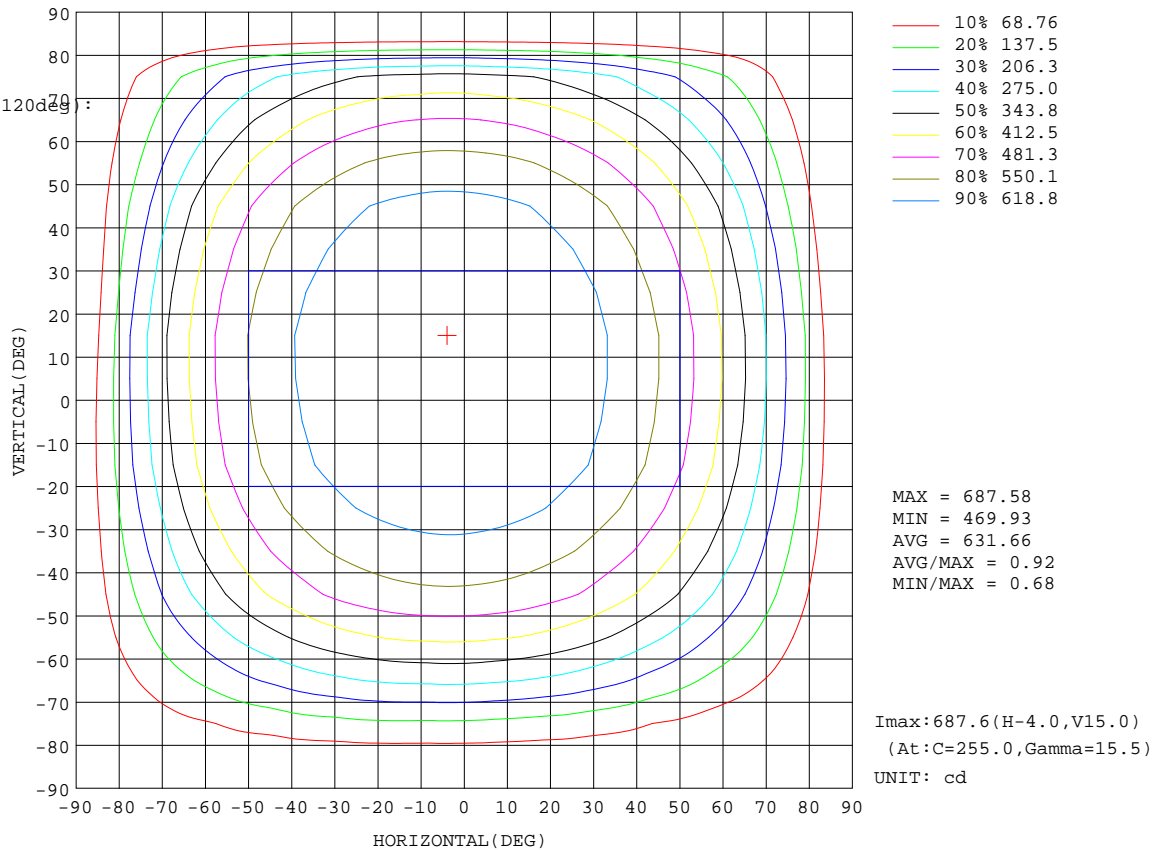
%lamp = 51.7%

Conical surface Flux(120deg):

1843.1 lm

%lum = 74.3%

%lamp = 81.1%

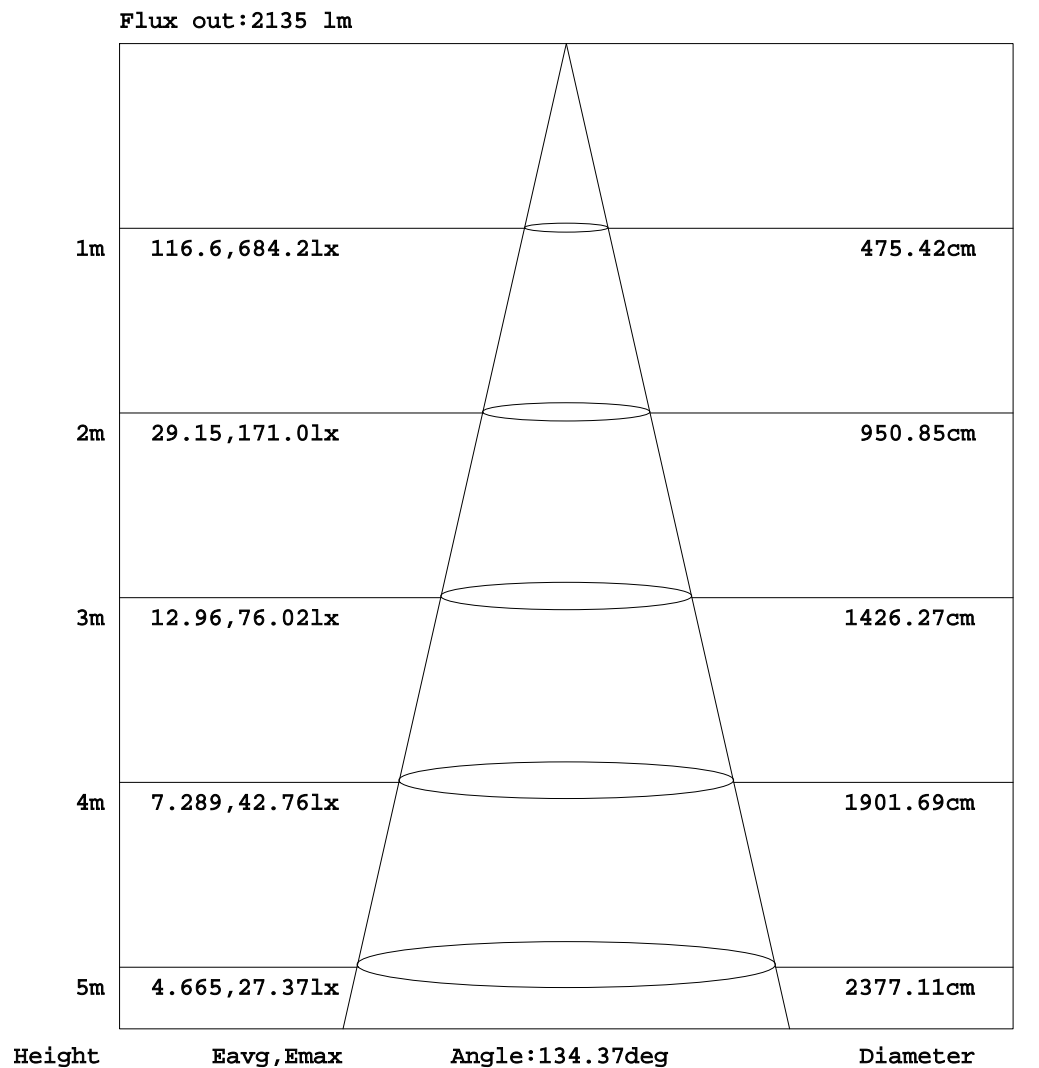


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:



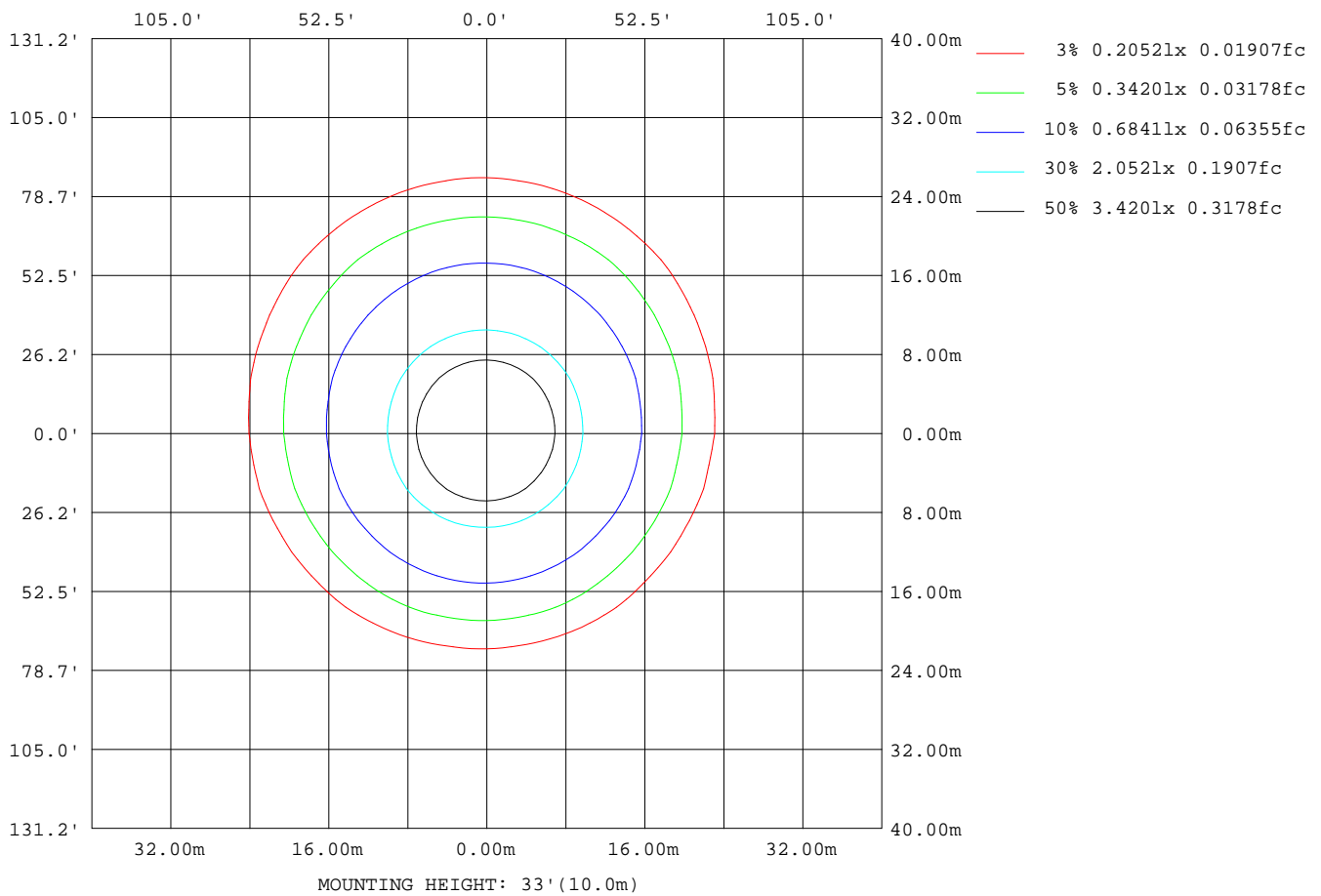
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity:65.0%
 Test Distance:5.640m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.03V I:1.868A P:44.91W PF:1.000 Lamp Flux:2271.46x1 lm		
NAME: LP-24-48x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

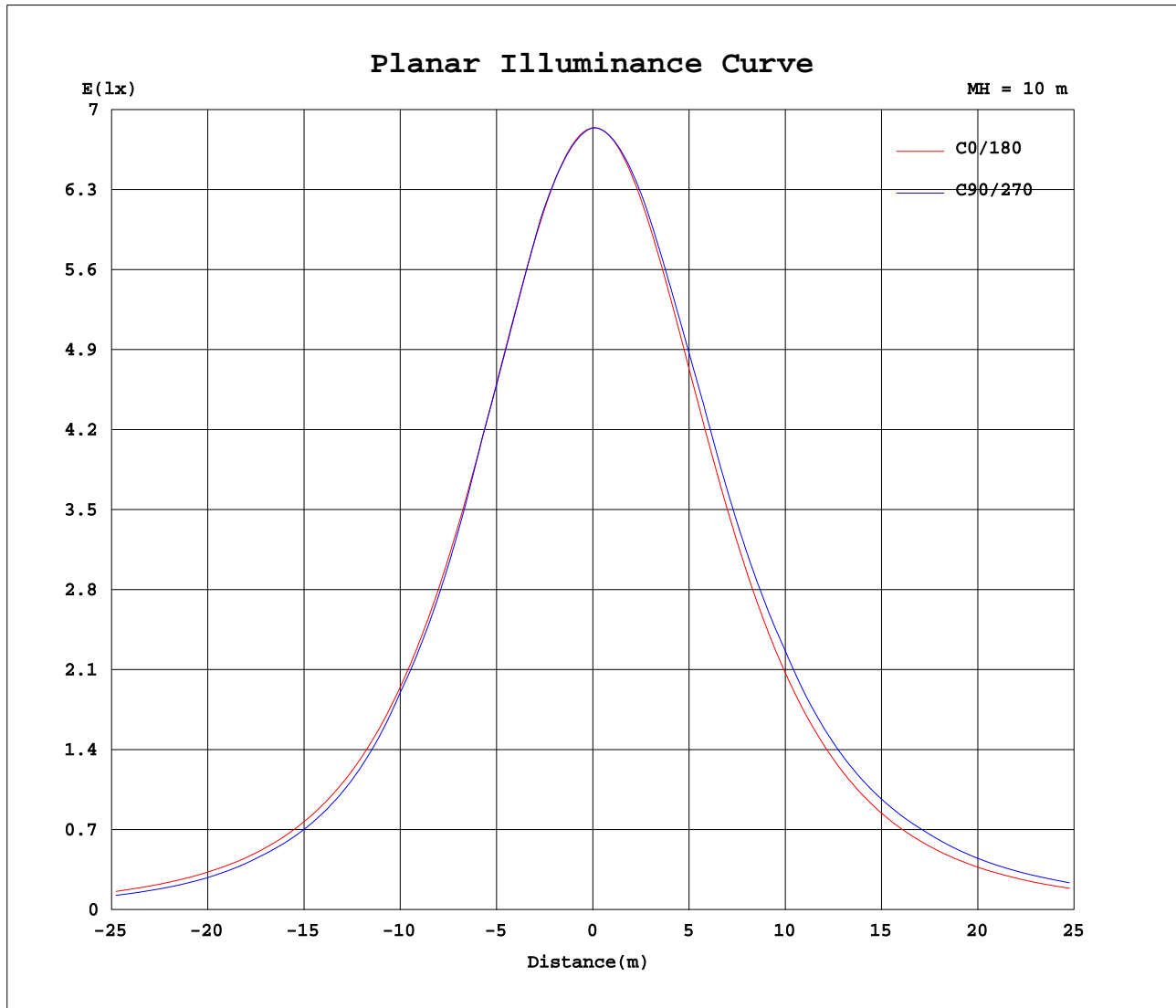
AvgL	cd/m2
L_0~180(65)av	1054
L_0~180(75)av	1044
L_0~180(85)av	831
L_90~270(65)av	1096
L_90~270(75)av	1143
L_90~270(85)av	0
L_45(65)av	1082
L_45(75)av	1080
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity: 65.0%
 Test Distance: 5.640m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```